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June 2007
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# Periodic Monitoring Report for Sandia Watershed October 10–18, 2006

Prepared by Environmental Programs Directorate

Los Alamos National Laboratory, operated by Los Alamos National Security, LLC, for the U.S. Department of Energy under Contract No. DE-AC52-06NA25396, has prepared this document pursuant to the Compliance Order on Consent, signed March 1, 2005. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory. 

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# Periodic Monitoring Report for Sandia Watershed October 10–18, 2006

June 2007

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## EXECUTIVE SUMMARY

The purpose of this report is to provide the results of the second periodic monitoring event conducted by Los Alamos National Laboratory (the Laboratory) in the Sandia Watershed. This periodic monitoring event for Sandia Watershed was conducted pursuant to the "Interim Facility-Wide Groundwater Monitoring Plan, Revision 1" (LANL 2006, 094043) prepared under the Compliance Order on Consent.

The periodic monitoring event documented in this report began on October 10, 2006, and ended on October 18, 2006. Fourteen groundwater wells or well ports and three baseflow stations were sampled as part of this periodic monitoring event.

Water samples obtained from various media during this periodic monitoring event were analyzed for target analyte list metals, cyanide, molybdenum, hexavalent chromium, volatile organic compounds, semivolatile organic compounds, pesticides, polychlorinated biphenyls, high explosives, radionuclides, tritium, general inorganics, perchlorate, stable isotopes, and field parameters (alkalinity, dissolved oxygen, iron, pH, specific conductance, temperature, and turbidity).

The screening analysis of the surface water analytical results indicates that perchlorate concentrations, at values below 0.8 µg/L, were less than the 4 µg/L screening level. Aluminum values at three locations were above the New Mexico Aquatic Life Chronic Standard of 87 µg/L. The New Mexico Aquatic Life Standard is applicable to the upper perennial portion of Sandia Canyon. For the first time since the beginning of monitoring in Sandia Watershed, BHC[delta-] was detected at 0.292 µg/L in a water sample collected at South Fork of Sandia Canyon at E122.Tritium values at the sample locations Sandia Below Wetlands and South Fork of Sandia Canyon at E122 were 18 pCi/L and 17 pCi/L, respectively. One tritium value of 28 pCi/L sampled from the South Fork of Sandia Canyon—a value that would normally have been in the previous Sandia Watershed periodic monitoring event in June 2006—was received at the Laboratory too late for inclusion in the June 2006 report. As a result, it is now being included in this report.

The screening analysis of the groundwater analytical results indicated that perchlorate was present in regional well R-11 at 0.7 µg/L, which is below the 4 µg/L screening level. Perchlorate results for two new alluvial wells, SCA-1 and SCA-5, were below 0.4 µg/L. Groundwater samples from R-11 showed chromium to be present at 29 µg/L, which is greater than the previous sampling event result. Aluminum, manganese, and iron are the dominant metals present in groundwater at all sample locations. A filtered water sample collected from SCA-1 contained manganese at 257% of the New Mexico Groundwater Standard, and the filtered iron sample was 57% of the state standard. Arochlor-1260, a polychlorinated biphenyl, was found in SCA-1 at 6% of the New Mexico Groundwater Standard. Low concentrations of acetone and toluene were found in a few samples from wells SCA-1, SCA-5, and R-11. Strontium-90 was found near the detection limit in a filtered sample but not in the corresponding unfiltered sample at SCA-1. Tritium values in two wells, SCA-1 and SCA-5, were 26 pCi/L and 103 pCi/L, respectively. Tritium values in R-11 have increased from 6 pCi/L to 10 pCi/L since May 2005. No general inorganic or radioactivity results were above standards.

The screening analysis supports the Sandia Watershed's conceptual model with respect to groundwater quality. The types of analytes detected and their concentrations are consistent with data obtained prior to this periodic monitoring event, with the exception of aroclor-1260 and arsenic in one alluvial groundwater well (SCA-1), and BHC[delta-] in surface water at E122. In addition, chromium concentrations in R-11 show an increasing trend approaching 60% of the New Mexico Groundwater Standard.

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**ACRONYMS AND SHORT FORMS**

| | |
|---|---|
| AOC | area of concern |
| BCG | (DOE) biota concentration guideline |
| bgs | below ground surface |
| C | cancer (risk type) |
| CMR | Chemistry and Metallurgy Research Building |
| Consent Order | Compliance Order on Consent |
| DCG | (DOE) Derived Concentration Guidelines |
| DOE | (U.S.) Department of Energy |
| EPA | (U.S.) Environmental Protection Agency |
| F | filtered (samples) |
| IFGMP | "Interim Facility-Wide Groundwater Monitoring Plan" |
| LANL | Los Alamos National Laboratory (the Laboratory) |
| MCL | (EPA) maximum contaminant level |
| MDL | method detection limit |
| N | noncancer (risk type) |
| NMED | New Mexico Environment Department |
| NMEIB | New Mexico Environmental Improvement Board |
| NPDES | National Pollutant Discharge Elimination System |
| NTU | nephelometric turbidity unit |
| PCB | polychlorinated biphenyl |
| PMR | periodic monitoring report |
| PRS | potential release site |
| RCRA | Resource Conservation and Recovery Act |
| RLWTF | Radioactive Liquid Waste Treatment Facility |
| RPF | Records Processing Facility |
| SMCL | (EPA) secondary maximum contaminant level |
| SWMU | solid waste management unit |

| | |
|---|---|
| SWSC | (TA-46) Sanitary Wastewater Systems Consolidation |
| TA | technical area |
| TDS | total dissolved solids |
| UF | unfiltered (samples) |

## 1.0 INTRODUCTION

This report provides documentation of quarterly groundwater and surface water monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Sandia Watershed pursuant to the "Interim Facility-Wide Groundwater Monitoring Plan" (IFGMP) (LANL 2006, 094043) prepared under the Compliance Order on Consent (Consent Order). This second periodic monitoring event began on October 10, 2006, and ended on October 18, 2006 and included sampling at 10 groundwater wells, or well ports, and three baseflow stations. Three alluvial groundwater wells (SCA-4, SCO-1, and SCO-2) were not sampled because there was not enough water present. The data from two locations (R-10 and R-10a) on San Ildefonso Pueblo property are not included in this report because they have not been released by the pueblo.

This report presents the following information:

- general background information on the watershed
- the watershed conceptual model
- field-measurement monitoring results
- water-quality monitoring results
- results of the screening analysis (comparing this periodic monitoring event's results with regulatory standards and results from previous reports)
- conclusions drawn based on the data and the screening analysis
- Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily provided to the New Mexico Environment Department (NMED) in accordance with U.S. Department of Energy (DOE) policy.

### 1.1 Background

Sandia Watershed is located within the central part of the Laboratory. Sandia Canyon heads on Laboratory property within Technical Area (TA) 03 at an elevation of approximately 7300 ft and trends east-southeast across the Laboratory, Bandelier National Monument, and San Ildefonso Pueblo. Sandia Canyon empties into the Rio Grande in White Rock Canyon at an elevation of 5450 ft.

The area of the Sandia Watershed is approximately 5.5 $mi^2$. The head of the canyon is located on the Pajarito Plateau at TA-03. Perennial stream flow and saturated alluvial aquifer conditions occur in the upper and middle portions of the canyon system because of sanitary wastewater and cooling tower discharges to the canyon from operating facilities. A wetland of approximately seven acres has developed as a result of the wastewater and cooling tower discharges. Polychlorinated biphenyls (PCBs) have been detected in sediment samples obtained from the wetland area, and mercury has been detected in surface-water samples. The only known perennial spring in the watershed (Sandia Spring) is located in lower Sandia Canyon.

TAs located in the Sandia Watershed include TA-03, -20, -53, -60, -61, and -72. Approximately 264 solid waste management units (SWMUs) and areas of concern (AOCs) are within these TAs. The types of SWMUs and AOCs vary from industrial outfalls to open-detonation firing sites.

### 1.2 Conceptual Model

The hydrologic and geochemical conceptual model for contamination in the Sandia Watershed is not well documented at this time because of the relatively small amount of data available for the sediment, alluvial groundwater, and vadose zone beneath the canyon.

The conceptual model for the Sandia Watershed as provided in the IFGMP (LANL 2006, 094043) is reproduced in Table A-1 (Appendix A) of this document.

## 2.0 SCOPE OF ACTIVITIES

This periodic monitoring event for the Sandia Watershed was conducted pursuant to the NMED-approved "Interim Facility-Wide Groundwater Monitoring Plan, Revision 1" (LANL 2006, 094043).

Table 2.0-1 shown below provides the location name, sample collection date and time, port common name, port depth, screened interval, top and bottom screen depths, instantaneous stream flow or water level, and the water-level method for each of the monitored locations. These locations are spatially represented in Figure 2.0-1.

## 3.0 MONITORING RESULTS

### 3.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with this periodic monitoring event are documented in the 2006 IFGMP (LANL 2006, 094043). Deviations from these documented methods and procedures are discussed in Section 3.4 or Table 3.4-1.

### 3.2 Field Parameter Results

Table B-1 (Appendix B) contains the field parameter results for this periodic monitoring event and the last three monitoring events.

### 3.3 Water-Level Observations

The periodic monitoring water-level data, including the last three sampling events, are located in Table C-1 (Appendix C). For those wells equipped with transducers, the reported water level is the water-level measurement taken earliest on the day of sampling. All manual measurements are reported at a time immediately before sampling. The water-level measurements taken during the execution of this periodic monitoring event are shown graphically in Figure 3.3-1.

Groundwater flow in the saturated alluvium is typically constrained by the canyon structure and travels in a generally eastward direction downcanyon. All other occurrences of groundwater are influenced by a variety of geologic controls. These geologic controls, which determine groundwater flow direction in both the intermediate-perched and regional groundwater, are surrounded by a high degree of uncertainty. Therefore, the directions of flow for these groundwater regimes are not displayed on the figures.

### 3.4 Deviations from Planned Scope

The primary deviations from the planned scope were caused by inadequate water available for sampling at three locations, well rehabilitation activities at R-12, and data not available for inclusion in this periodic monitoring report because of requirements for review and release of the data by San Ildefonso Pueblo. Table 3.4-1 below describes the deviations from the planned scope of this periodic monitoring event.

## 4.0 ANALYTICAL DATA RESULTS

### 4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of this periodic monitoring event are documented in the 2006 IFGMP (LANL 2006, 094043). Any changes from these documented laboratory methods and procedures are discussed in Table 3.4-1.

### 4.2 Analytical Data

Appendix D presents the analytical data from this periodic monitoring event and the applicable regulatory standards to which the results are compared. It provides a summary of data quality exceptions, and the analytical laboratory reports (including chains of custody, etc.) can be found in Appendix G.

Appendix D contains all data obtained during the periodic monitoring event (that is, all data that had been independently reviewed for conformance with Laboratory requirements), with the following constraints:

- All data
    - Data that are R qualified (rejected because of noncompliance regarding quality control acceptance criteria) during independent validation are considered “not detected,” but are reported
- Radionuclides
    - All results without a laboratory qualifier of U or X (abbreviations that indicate that the analyte was not detected) are reported at all locations.
    - Low-detection-limit tritium results greater than 3 times the 1 standard deviation total propagated analytical uncertainty (or 3σ) are reported.
    - Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.
    - Only cesium-137, colbalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
- Nonradionuclides
    - For location, port depth, analyte, field preparation, and sample date, all results are reported for the sample. Field duplicates (plus triplicates and quadruplicates), reanalyses, field blanks, trip blanks, equipment blanks, and different analytical methods are also reported.
    - Analytical laboratory quality-control results including matrix spike and matrix spike duplicates are not included in the data set.

The standards applied to all media are listed below in Table 4.2-1, titled "Cleanup Standards, Risk-Based Screening Levels and Risk-Based Cleanup Levels for Groundwater and Surface Water at Los Alamos National Laboratory." Table 4.2-1 indicates the type of standard, the agency that promulgated the standard, and whether the standard applies to dissolved (F, or filtered) or total (UF, or unfiltered) samples.

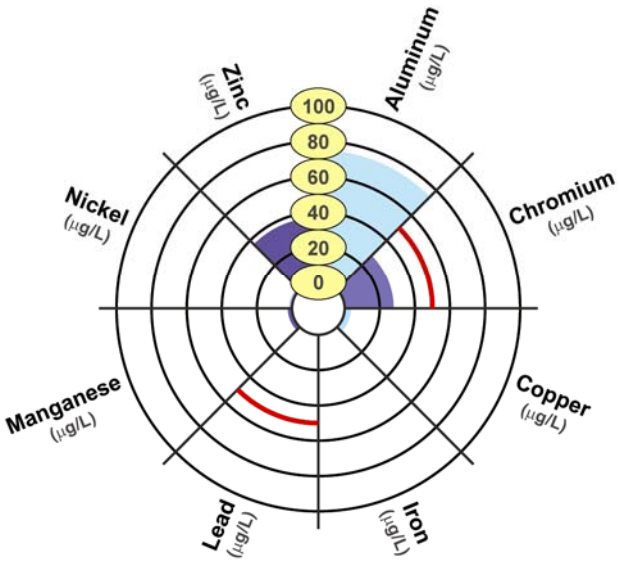
Surface-water and groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order. Surface-water sample results were compared with all surface-water standards without consideration of the designated use for the particular reach. The New Mexico Groundwater Standards apply to the dissolved portion of specified contaminants, except that standards for mercury, organic compounds, and nonaqueous phase liquids apply to the total unfiltered concentrations of the contaminants.

As required by the Consent Order, (U.S.) Environmental Protection Agency (EPA) Region 6 Tap Water Screening Levels are used for constituents having no other regulatory standard and for which toxicological information is published. For these screening levels, the tables indicate a risk type of C (cancer) or N (noncancer). For the cancer risk type, the risk levels are for $10^{-6}$ excess cancer risk. The Consent Order specifies screening with these values at a risk level of $10^{-5}$ (rather than $10^{-6}$) excess cancer risk. Therefore, data must exceed the $10^{-6}$ screening values by a factor of 10 or more to be above a risk level of $10^{-5}$ excess cancer risk.

The data were evaluated using the following screening process.

- Pursuant to the Consent Order, the analytical results for all constituents are compared with applicable water quality standards (EPA maximum contaminant levels [MCLs], EPA secondary maximum contaminant levels [SMCLs], New Mexico Groundwater and Surface Water Standards, and EPA Region 6 Tap Water Screening Levels) and the Consent Order screening level for perchlorate.
- The analytical results for radioactivity are compared to the DOE biota concentration guidelines (BCGs) and Derived Concentration Guides (DCGs) for groundwater.
- Table E-1 shows all detected values for perchlorate, radioactivity, and organic compounds; and all values greater than half the lowest applicable standard for metals and general inorganic compounds.
- For radioactivity, organic compounds, and perchlorate, an analysis of all available detections for specific analytes is performed to determine if a decreasing or increasing trend exists.
- For metals and general inorganic compounds, an analysis of all values greater than half the lowest applicable standard is performed to determine if a decreasing or increasing trend exists.

Analytical results are presented graphically in Figure 4.2-1. Figure 4.2-1 contains modified clock diagrams displaying a series of select analytes around the circumference and showing the concentration by the length of the radius. An example of a clock diagram displaying metal concentrations is shown below.




**Example of a Modified Clock Diagram**

The analytes displayed in Figure 4.2-1 were selected from two datasets: those identified during the data screening performed in the IFGMP (LANL 2006, 094043) and those identified during the data screening from this periodic monitoring event.

The analytes identified in the IFGMP data screening for the Sandia Watershed included aluminum, aroclor-1260, cadmium, copper, perchlorate, selenium, and zinc in surface water; and bis(2-ethylhexyl)phthalate, iron, lead, manganese, nickel, and selenium in groundwater. Aroclor-1242 was added to the data set based on the analytical results from this periodic monitoring event.

The diagrams with the blue and green shaded regions represent metals and general inorganic and organic data, respectively. For surface water, the selected analytes shown in blue are chromium, copper, iron, manganese, nickel, perchlorate, selenium, and zinc. For groundwater, the selected analytes shown in blue are aluminum, chromium, copper, iron, lead, manganese, nickel, and zinc. For both surface water and groundwater, the selected analytes shown in green are aroclor-1242, nitrate and perchlorate.

Analytes that are not shown on the diagrams were either not detected or were radionuclides. Empty diagrams are shown for completeness and allow the reader to see that some analytes were not present in significant concentrations at certain locations. The solid red lines, when shown, depict applicable regulatory standards or screening levels. Note that some standards or screening levels may exceed the highest concentration displayed and may not appear on the diagram. Standards and screening level values may be found in Tables E-1 through E-11 in Appendix E.

### 4.2.1 Surface Water (Base Flow)

A summary of the results of comparing the analytical data with applicable regulatory standards is shown in Tables E-1 through E-5 (Appendix E). Graphical representations of select surface water analytical results (Section 4.2) are shown in Figure 4.2-1.

Aluminum is the predominant metal present in surface water at concentrations above water-quality standards as shown in Table E-1. Aluminum values at three surface-water locations (South Fork of Sandia Canyon at E122, Middle Sandia Canyon at terminus of baseflow, and Sandia Below Wetlands) were slightly above (101 to 115%) the New Mexico Aquatic Life Chronic Standard (at 100 mg hardness) of 87 µg/L. The analytical results were all near the method detection limit (MDL). The New Mexico Aquatic Life Chronic Standard applies in the upper perennial portion of Sandia Canyon.

Surface water samples taken at South Fork of Sandia Canyon at E122 and Sandia Below Wetlands had nitrate (as nitrogen) results ranging from 770 mg/L to 1030 mg/L, compared to the New Mexico Livestock Watering Standard of 132 mg/L (Table E-2).

Table E-3 shows which tritium results for Sandia Below Wetlands and South Fork of Sandia Canyon at E122 were 18 pCi/L and 17 pCi/L, respectively. A surface water sample collected on June 29, 2006, at South Fork of Sandia Canyon at E122 contained tritium at 28 pCi/L. All other groundwater and surface-water data that were not included in the previous monitoring report were below applicable standards and screening levels and are included in Appendix D.

Surface-water perchlorate concentrations were below 0.8 µg/L, which is well below the 4 µg/L screening level (Table E-4).

One organic compound, BHC[delta-] (Table E-5), was found near the MDL at South Fork of Sandia Canyon at E122. This is the first detection of this compound at this location.

### 4.2.2 Groundwater

A summary of the results of comparing the analytical data with applicable regulatory standards is shown in Tables E-6 through E-11 (Appendix E). Graphical representations of select groundwater analytical results (Section 4.2) are shown in Figure 4.2-1.

The predominant metals present in groundwater (particularly in unfiltered spring samples) at concentrations above water quality standards are aluminum, manganese, and iron. A J-flagged (estimated) filtered arsenic result at alluvial well SCA-1 was 87% of the EPA MCL of 10 µg/L and is the first arsenic result for this well (Table E-6). This result was just above the MDL of 6 µg/L, and arsenic was not found in the unfiltered sample. Filtered manganese in SCA-1 was 257% of the New Mexico Groundwater Standard, and filtered iron was 57% of the standard. Filtered chromium results from R-11 were 29 µg/L and suggest an increasing trend from 20 µg/L to 30 µg/L since May 2005.

The filtered nitrate (as N) value of 5.9 mg/L in Sandia Canyon alluvial well SCA-1 is the first detection of nitrate at this location. As shown in Table E-7, this value is 59% of the New Mexico Groundwater Standard. Nitrate was not detected in the corresponding unfiltered sample from SCA-1.

Strontium-90 was found near the detection limit in a filtered sample at SCA-1, but it was not found in the unfiltered sample (Table E-8). Tritium activities in the two alluvial wells were 26 pCi/L and 103 pCi/L (Table E-9). Tritium in regional well R-11 has increased from 6 pCi/L in May 2005 to 10pCi/L in October 2006.

A PCB, aroclor-1260, was found in the first sample from Sandia Canyon alluvial well SCA-1 at 6% of the New Mexico Groundwater Standard (Table E-10). The turbidity in the sample from this 1.5 ft-deep well was 93 NTU (nephelometric turbidity unit). Low concentrations of acetone, and in one case, toluene, were found in a few samples from wells SCA-1, SCA-5, and R-11.

Table E-11 displays the perchlorate results for two new alluvial wells that were below 0.4 µg/L. In regional well R-11, the perchlorate concentration was 0.7 µg/L.

### 4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the Sandia Watershed are proposed at this time.

## 5.0 INVESTIGATION-DERIVED WASTE

Appendix F discusses the management of waste derived during this periodic monitoring event and contains the waste management records for waste streams generated during this periodic monitoring event.

## 6.0 SUMMARY AND INTERPRETATIONS

### 6.1 Monitoring Results

An evaluation of the field parameter monitoring results presented in Table B-1 and subsequent monitoring events will be provided in the annual update to the IFGMP.

### 6.2 Analytical Results

#### 6.2.1 Surface Water (Base Flow)

Table 6.2-1 gives the number of base flow analytical results that are above a standard or screening level. Multiple detections of a particular constituent at a location are counted as one result. For example, if aluminum is detected above a standard or screening level in both a primary sample and a field duplicate, the detection is counted as one result. The types of contaminants detected and their concentrations are consistent with prior data. The analytical results from this periodic monitoring event support the watershed's conceptual model with respect to surface-water quality as summarized in the IFGMP and included in Appendix A.

Elevated concentrations of aluminum are most likely derived from suspended sediment and sample turbidity (LANL 2006, 093925). Aluminum values at three surface water locations (South Fork of Sandia Canyon at E122, Middle Sandia Canyon at terminus of persistent baseflow, and Sandia Below Wetlands) were slightly above (101 to 115%) the New Mexico Aquatic Life Chronic Standard (at 100 mg hardness) of 87 µg/L. The analytical results were all near the MDL.

Surface-water samples taken at South Fork of Sandia Canyon at E122 and Sandia Below Wetlands had nitrate (as nitrogen) results ranging from 770 mg/L to 1030 mg/L, compared to the New Mexico Livestock Watering Standard of 132 mg/L. These results are due to incorrect preservation of the samples with nitric acid. This conclusion was verified by comparison with the total dissolved solids (TDS) value, which was much lower than the nitrate results, and by reanalysis for nitrate from other sample bottles collected at some affected locations.

Tritium results for Sandia Below Wetlands at E123 and South Fork of Sandia Canyon at E122 were 18 pCi/L and 17 pCi/L, respectively. Tritium results from South Fork of Sandia Canyon at E122, collected in June 2006 but not received in time for the previous report, were 28 pCi/L.

Surface-water perchlorate concentrations were below 0.8 µg/L, which is well below the 4 µg/L screening level.

The first detection of BHC[delta-] was found at South Fork of Sandia Canyon at E122. The value was near the MDL.

### 6.2.2 Groundwater

Table 6.2-1 gives the number of groundwater analytical results (by hydrogeologic zone) that are above a standard or screening level. Only one result from the Sandia Canyon groundwater exceeded regulatory standards or screening levels. The types of contaminants detected and their concentrations are consistent with prior data. The analytical results from this periodic monitoring event support the watershed's conceptual model with respect to groundwater quality as summarized in the IFGMP and included in Appendix A.

A J-flagged (estimated) filtered arsenic result at alluvial well SCA-1 was 87% of the EPA MCL of 10 µg/L and is the first result for this well. This result was just above the MDL of 6 µg/L, and arsenic was not found in the unfiltered sample. From a geochemical perspective, the total arsenic should be higher than the dissolved arsenic. This result is unreliable because it is close to the detection limit. Future analyses will have a lower MDL. The concentrations of aluminum, manganese, and iron in groundwater samples are most likely the result of suspended sediment, sample turbidity, or well-construction artifacts rather than Laboratory contamination.

The filtered nitrate (as N) value of 5.9 mg/L in Sandia Canyon alluvial well SCA-1 is the first such result; the unfiltered sample should have had a similar result, but it was a nondetect. This conflict between filtered and unfiltered samples suggests some sampling or analytical error with one of the samples.

Strontium-90 was found near the detection limit in a filtered sample at SCA-1, but it was not found in the unfiltered sample. This finding suggests a false positive. Tritium in regional well R-11 shows an increasing trend from 6 pCi/L in May 2005 to 10 pCi/L during this sampling event.

The water sample that contained aroclor-1260 from alluvial well SCA-1 had a turbidity of 93 NTU. Low concentrations of acetone, and in one case, toluene, were found in a few samples. Certain organic compounds, such as those found at SCA-1, SCA-5, and R-11, are frequently detected because of cross-contamination in the analytical laboratory or in the field. These compounds include acetone, methylene chloride, toluene, 2-butanone, di-n-butyl phthalate, di-n-octylphthalate, and bis(2-ethylhexyl)phthalate.

Perchlorate results for two new alluvial wells were below 0.4 µg/L. In regional well R-11, the perchlorate concentration was 0.7 µg/L

### 6.3 Data Gaps

Table 6.3-1 provides a summary of the field parameter and analytical data gaps encountered during this periodic monitoring event. Table 3.4-1 provides a more detailed account of sampling event deviations and data quality exceptions.

## 7.0 REFERENCES

*The following list includes all documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ER ID number. This information is also included in text citations. ER ID numbers are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the ENV-ERS Program master reference set.*

*Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau; the U.S. Department of Energy–Los Alamos Site Office; the U.S. Environmental Protection Agency, Region 6; and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.*

LANL (Los Alamos National Laboratory), September 1999. "Work Plan for Sandia Canyon and Cañada del Buey," Los Alamos National Laboratory document LA-UR-99-3610, Los Alamos, New Mexico. (LANL 1999, 064617)

LANL (Los Alamos National Laboratory), July 2006. "Interim Facility-Wide Groundwater Monitoring Plan, Revision 1.1," Los Alamos National Laboratory document LA-UR-06-4975, Los Alamos, New Mexico. (LANL 2006, 094043)

LANL (Los Alamos National Laboratory), September 2006. "Environmental Surveillance at Los Alamos During 2005," Los Alamos National Laboratory report LA-14304-ENV, Los Alamos, New Mexico. (LANL 2006, 093925)

### 7.1 Geospatial Data Sources

BLM 100K Land Ownership; Los Alamos National Laboratory, RRES-Remediation Services; 2002.

LANL Hillshade 2000 - 4 Ft; Los Alamos National Laboratory, ENV-Environmental Characterization and Remediation Group, Geographical Information Systems Team, LA-UR-02-1745; 13 June 2005.

Locations of Springs; Los Alamos National Laboratory, Environmental Stewardship Division in cooperation with the New Mexico Environment Department, Department of Energy Oversight Bureau, ER2005-0495; 1:2,500 Scale Data; 18 July 2005.

Penetrations; Los Alamos National Laboratory, ENV-Environment and Remediation Support Services, ER2006-0664; 1:2,500 Scale Data; 21 August 2006.

SPPI Boundaries; Space Planning and Project Inititiation; 2005.

Surface Water Runoff Monitoring Stations; Los Alamos National Laboratory, RRES-Water Quality and Hydrology Group; 13 June 2005.

Watercourse; Los Alamos National Laboratory, ENV-Environmental Characterization and Remediation Group, Geographical Information Systems Team; 5 April 2005.

WQH Drainage_arc; Los Alamos National Laboratory, RRES-Water Quality and Hydrology Group; 3 June 2003.

WQH NPDES Outfalls; Los Alamos National Laboratory, ENV-Environmental Characterization and Remediation Group; 1 September 2003.

WQH Perennial Streams; Los Alamos National Laboratory, RRES-Water Quality and Hydrology Group; 25 April 2006.

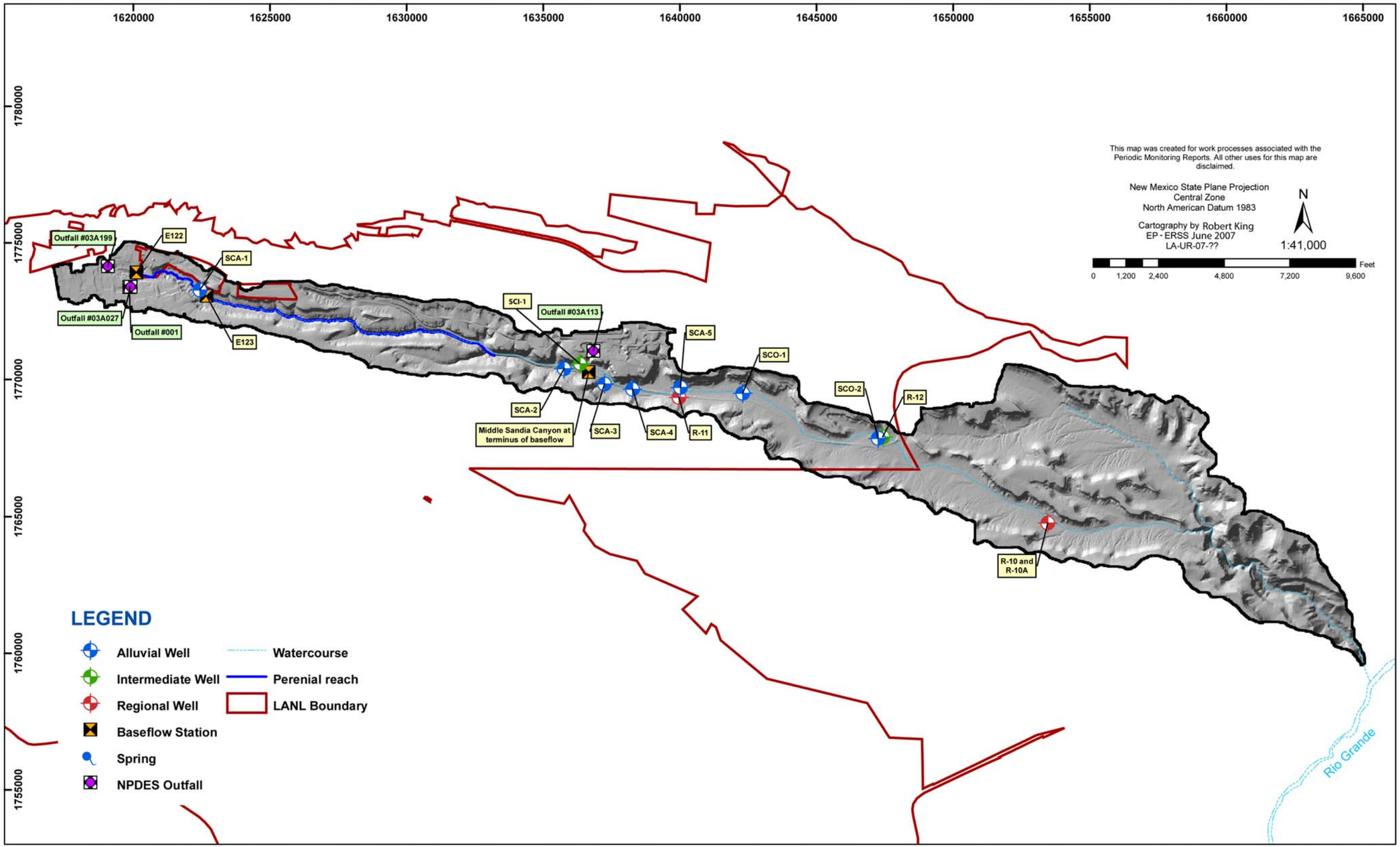



**Figure 2.0-1 Watershed map with monitored locations**

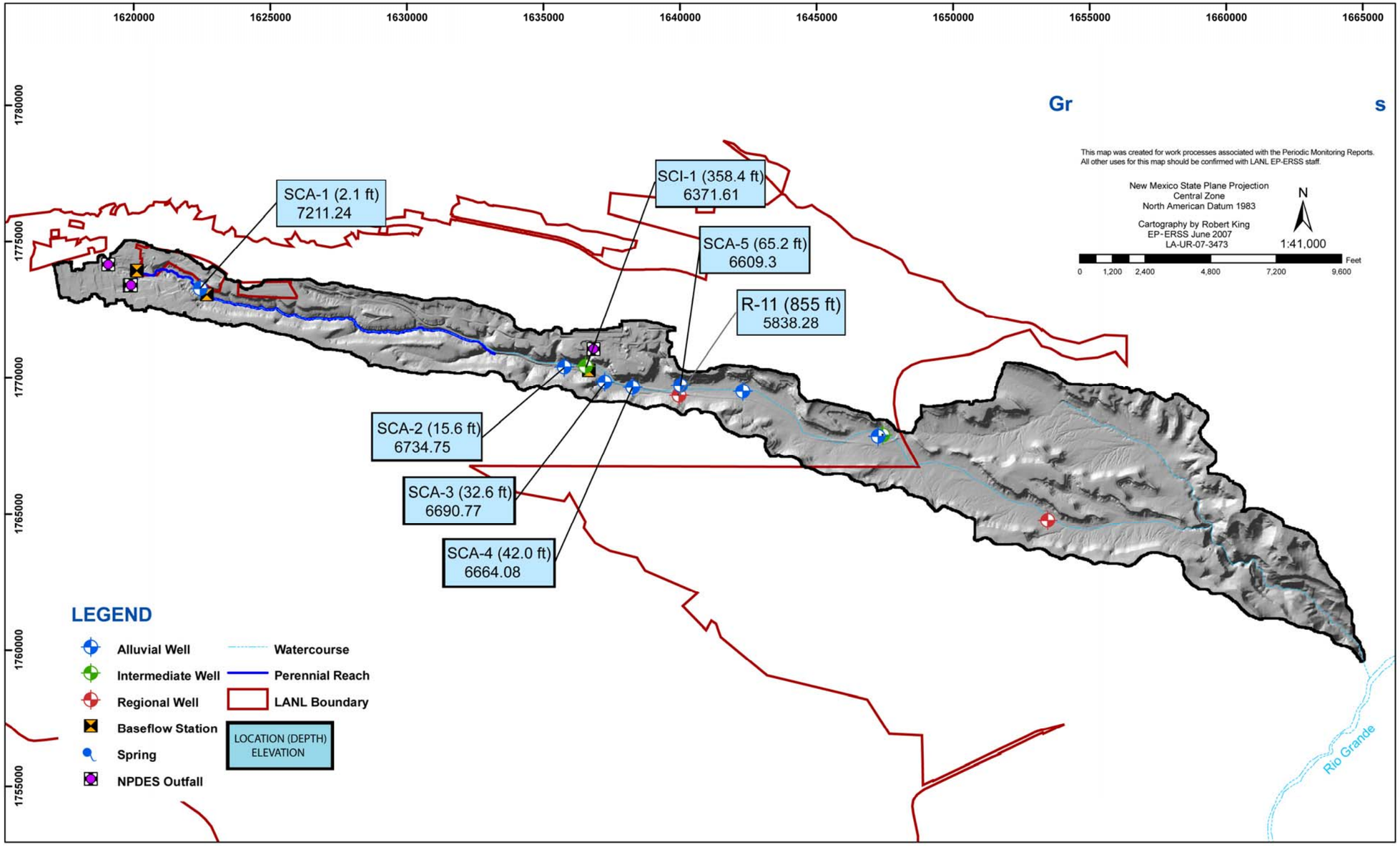



**Figure 3.3-1 Groundwater level measurements**

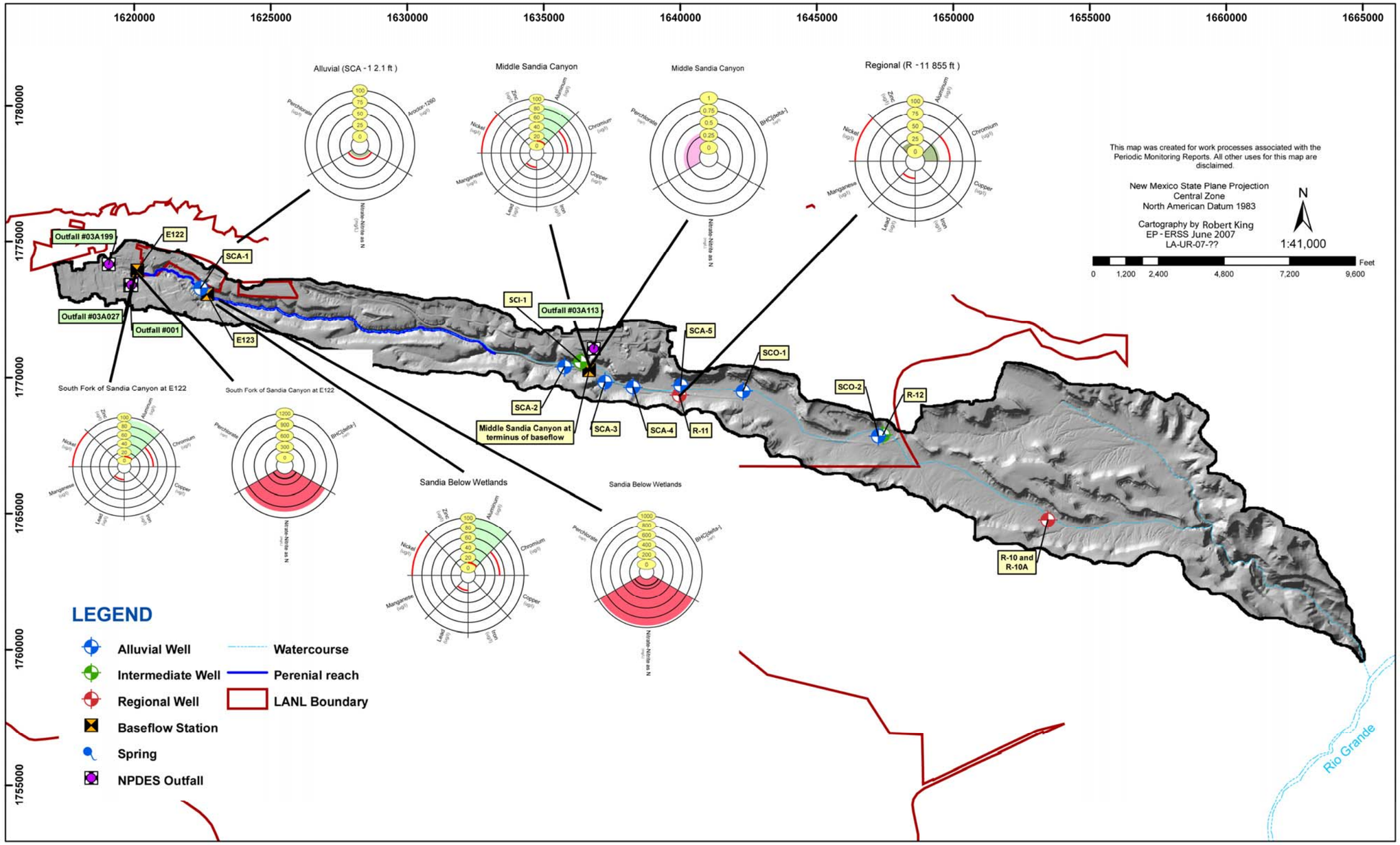



**Figure 4.2-1 Analytical results**

**Table 2.0-1**
**Monitoring Locations and General Information**

| Location | Sample Collection Date | Port Name | Port Depth (ft)[a] | Screened Interval (ft) | Top Screen Depth (ft) | Bottom Screen Depth (ft) | Base Flow (cfs)[b] | Water Level (ft) | Water Level Method |
|---|---|---|---|---|---|---|---|---|---|
| Base Flow | | | | | | | | | |
| South Fork of Sandia Canyon at E122 | 10/17/06 | n/a[c] | n/a | n/a | n/a | n/a | 0.01 | n/a | n/a |
| Sandia Below Wetlands | 10/18/06 | n/a | n/a | n/a | n/a | n/a | 0.31 | n/a | n/a |
| Middle Sandia Canyon at terminus of persistent base flow | 10/18/06 | n/a | n/a | n/a | n/a | n/a | 0.0008 | n/a | n/a |
| Alluvial | | | | | | | | | |
| SCA-1 | 10/16/06 | Single Completion | 2.1 | 0.6 | 1.3 | 1.9 | n/a | 3.84 ft toc[d] | Manual |
| SCA-2 | 10/11/06 | Single Completion | 15.6 | 4.7 | 10.1 | 14.8 | n/a | Dry | Manual |
| SCA-3 | 11/6/06 | Single Completion | 32.6 | 4.4 | 27.6 | 32 | n/a | Dry | Manual |
| SCA-4 | 10/10/06 | Single Completion | 42 | 4.5 | 37 | 41.5 | n/a | 42.24 ft toc—bladder pump not producing water | Manual |
| SCA-5 | 10/11/06 | Single Completion | 65.2 | 9.4 | 55 | 64.4 | n/a | 62.41 ft toc | Manual |
| SCI-1 | 10/13/06 | Single Completion | 358.4 | 19.5 | 358.4 | 377.9 | n/a | 6371.61 | Manual |
| SCO-1 | 10/10/06 | Single Completion | 9.3 | 10 | 9.3 | 19.3 | n/a | Dry | Manual |
| SCO-2 | 10/10/06 | Single Completion | 9.4 | 10 | 9.4 | 19.4 | n/a | Dry | Manual |
| Regional | | | | | | | | | |
| R-11 | 10/10/06 | Single Completion | 855 | 22.9 | 855 | 877.9 | n/a | 5838.13 ft | Manual |

[a] ft: feet.
[b] cfs: cubic feet per second.
[c] n/a: not applicable.
[d] toc: top of casing.

**Table 3.4-1**
**Observations and Deviations**

| Location | Deviation | Cause | Comments |
|---|---|---|---|
| R-12 | No data are included in this report for this location. | Well rehabilitation activities. | The fate of periodic monitoring at R-12 will be determined in coordination with NMED in the near future. |
| Middle Sandia Canyon at terminus of persistent baseflow | Low-level tritium data not available. | Shipping problem—broken containers. | Sample will be collected following schedule and submitted in the next Sandia Periodic Monitoring Report (PMR). |
| SCA-4, SCO-1, SCO-2 | Sample not collected. | Water level was below pump at time of sampling (SCA-4). Location was dry at time of sample collection (SCO-1, SCO-2). | Location will be checked again during next scheduled sampling round. |
| R-11 | Total phosphate results not available. | Total phosphate results rejected by secondary validation due to instrument calibration problems. | Instrument calibration issues will be covered in next Laboratory audit. |
| SCA-5 | Total Kjeldahl nitrogen and ammonia as nitrogen results not available. | Total Kjeldahl nitrogen and ammonia as nitrogen results rejected by secondary validation due to instrument calibration problems. | Instrument calibration issues will be covered in next Laboratory audit. |
| SCA-1 | High explosives results not available. | Surrogate result below acceptable limits; all results rejected in data validation. | This result may be due to matrix affects in sample. |
| R-11, SCA-1, SCA-1, and South Fork of Sandia Canyon at E122 | Potassium-40 results not available. | Potassium-40 rejected by secondary validation due to instrument calibration problems. | Instrument calibration issues will be covered in next Laboratory audit. |
| SCA-5 | Benzidene results not available. | Benzidene results rejected in data validation due to spike recovery of less than 10%. | Laboratory quality assurance/quality control (QA/QC) practices will be reviewed during next audit. |
| SCA-1 | Acid extractable compound results not available. | Acid extractable compound results rejected in data validation due to surrogate recovery of less than 10%. | Laboratory QA/QC practices will be reviewed during next audit. |
| SCA-1 | Acetonitrile and carbon disulfide results not available (SCA-1). | Acetonitrile and carbon disulfide results rejected in data validation. | Laboratory QA/QC practices will be reviewed during next audit. |

**Table 3.4-1 (continued)**

| Location | Deviation | Cause | Comments |
|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow, R-11, SCA-1, SCA-5, Sandia Below Wetlands, and South Fork of Sandia Canyon at E122 | 1,4-dioxane data by method 8260 not available. | Data rejected in data validation because of calibration problems. | Data are reported by method 8270. |
| Middle Sandia Canyon at terminus of persistent baseflow, Sandia Below Wetlands, and South Fork of Sandia Canyon at E122 | Tetrachloroethene data not available. | Data rejected in data validation. | Tetrachloroethene data will be included in next Sandia PMR. |

**Table 4.2-1**
**Cleanup Standards, Risk-Based Screening Levels, and Risk-Based Cleanup Levels for Groundwater and Surface Water at Los Alamos National Laboratory**

| Standard Type | Groundwater | Surface Water |
|---|---|---|
| Department of Energy (DOE) Biota Concentration Guidelines (BCG) | n/a | x |
| DOE 100 mrem Public Dose Derived Concentration Guidelines (DCG) | x | n/a |
| DOE 4 mrem Drinking Water DCG | x | n/a |
| Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) | x | n/a |
| EPA Region 6 Tap Water Screening Level | x | n/a |
| New Mexico Environmental Improvement Board (NMEIB) Radiation Protection Standards | x | x |
| New Mexico Water Quality Control Commission (NMWQCC) Fisheries Standards Chronic | n/a | x |
| NMWQCC Fisheries Standards Chronic, Hardness = 100 mg/L | n/a | x |
| NMWQCC Groundwater Standard | x | n/a |
| NMWQCC Livestock Watering Standard | n/a | x |
| NMWQCC Wildlife Habitat Standard | n/a | x |
| NMWQCC Human Health Standard Ephemeral | n/a | x |
| NMWQCC Human Health Standard Perennial | n/a | x |

n/a = not applicable
x = standard applied to data screen for this report

**Table 6.2-1**
**Count of Results above Standards or Screening Levels by Media***

| Media/Suite | Metals | General Inorganic | Organic | Radioactivity |
|---|---|---|---|---|
| Surface Water | 3 | 2 | 0 | 0 |
| Alluvial Groundwater | 1 | 0 | 0 | 0 |
| Intermediate Groundwater | 0 | 0 | 0 | 0 |
| Regional Aquifer | 0 | 0 | 0 | 0 |

*Multiple detections of a particular constituent at a location are counted as one result.

**Table 6.3-1**
**Data Gaps**

| Data Gap | Impact | Resolution |
|---|---|---|
| Samples were not collected due to lack of water. | No data are available for this periodic monitoring report (PMR). | The Laboratory will continue to monitor locations per "Interim Facility-Wide Groundwater Monitoring Plan." |
| Data collected for well-rehabilitation activities are not applicable to this sampling event and is not included. | No data are available for this PMR. | Well rehabilitation issues will be resolved with the New Mexico Environment Department. |
| Data were not released by owner. | No data are available for this PMR. | Data will be reported in a subsequent PMR. |

# Appendix A

*Sandia Watershed Conceptual Model*

This appendix contains the conceptual model as described in Table A-3 of the 2006 "Interim Facility-Wide Groundwater Monitoring Plan" (LANL 2006, 094043).

**Table A-1**
**Sandia Watershed Conceptual Model**

| Conceptual Model Element | Characteristic | Description |
|---|---|---|
| **Surface Water** | **Flow** | Sandia Canyon and its tributaries are ephemeral. With the exception of gaging station E200, which measures flow created by discharge of treated effluent from the TA-50 RLWTF, all other gaging stations measured flow only in response to precipitation. In the period 1995–2002, gage E200 measured flow 64% of the year, where the other gages (E202, E203, E204) measured no flow.<br><br>Operating NPDES-permitted outfalls associated with Sandia Canyon include 051 associated with the TA-50 RLWTF; 03A-021 associated with the CMR Laboratory at TA-03; 03A-022 associated with the Sigma Building at TA-03; 03A-045 associated with the Rad Chem Laboratory at TA-48; 03A-160 associated with Antares Target Hall at TA-35; 03A-181 associated with a utility building at TA-55; and 04A-166 associated with water supply well Pajarito Mesa #5.<br><br>Cañada del Buey within the Laboratory boundary is ephemeral in character, based on flow data from three gages; E218, E230, and E225. In the period from 1995 to 2002, the number of days of flow per year ranged from 38 at the gage near TA-46 to zero near MDA G. Cañada del Buey east of the Laboratory has effluent-supported flow from the Los Alamos County sewage treatment plant in White Rock, which discharges into Cañada del Buey about 2 mi upstream of its confluence with Sandia Canyon, and results in effluent-supported surface flow that regularly extends to the Rio Grande.<br><br>Operational NPDES-permitted outfalls associated with Cañada del Buey include 13S associated with the TA-46 Sanitary Wastewater Systems Consolidation (SWSC) Plant (effluent is sampled at 13S but not discharged; all SWSC effluent is routed to TA-03) and 04A-118 associated with water supply well Pajarito Mesa #4. |
| | **Quality** | Key contaminants include americum-241, plutonium-238, plutonium-239/240, strontium-90, fluorine, nitrate, and perchlorate. |
| **Springs** | **Name** | No springs are present in the Sandia Canyon. |
| | **Quality** | Not applicable |

**Table A-1 (continued)**

| Conceptual Model Element | Characteristic | Description |
|---|---|---|
| **Alluvial Groundwater** | **Extent** | Based on water levels observed in Sandia Canyon alluvial wells, a saturated zone in the alluvium extends downstream from the TA-50 RLWTF outfall for approximately 2.2 mi. The easternmost extent of saturation in the alluvium is estimated near wells MCO-8 and MCO-8.2.<br>In Cañada del Buey, nine alluvial wells were installed, but only two occasionally contain groundwater. |
| | **Depth/Thickness** | The saturated portion of the Sandia Canyon alluvium is generally less than 10 ft thick and there is considerable variation in saturated thickness depending on the amount of precipitation and runoff in any particular year. Groundwater flow velocity in the alluvium varies from about 60 ft/day in the upper canyon to about 7 ft/day in the lower canyon and has been estimated to be 30 to 40 ft/day between MCO-5 and MCO-8.2. |
| | **Quality** | Key contaminants include americum-241, gross alpha, gross beta, plutonium-238, plutonium-239/240, strontium-90, H-3, fluorine, nitrate, and perchlorate. Effluent releases have had a major impact on water quality. |
| **Intermediate Groundwater** | **Extent/Hydrology** | Perched groundwater was encountered during drilling of R-15 and MCOBT-4.4 in two different stratigraphic levels within the Cerros del Rio basalt. The lateral extent of these intermediate depth perched zones is unknown. |
| | **Depth/Thickness** | At MCOBT-4.4, a single screen is set in a perched zone within the upper Puye Formation/Cerros del Rio basalt at a depth of 524 ft below ground surface (bgs). In R-15, perched groundwater was encountered at a depth of 646 ft bgs in the lower portion of the Cerros del Rio basalt. |
| | **Quality** | Key contaminants include nitrate, chromium, and perchlorate. Water quality shows the impact of historical effluent releases. |

**Table A-1 (continued)**

| Conceptual Model Element | Characteristic | Description |
|---|---|---|
| **Regional Aquifer** | **Depth/Hydrology** | The regional water table occurs within the Puye Formation in the Sandia Canyon watershed. In Ten Site Canyon, approximately 3700 ft west of the confluence with Sandia Canyon, the regional aquifer was encountered at a depth of 1182 ft in well R-14. In Test Well 8, located in Sandia Canyon approximately 1300 ft west of the confluence with Ten Site Canyon, the regional aquifer occurs at a depth of 994 ft. The regional aquifer was encountered at a depth of 964 ft in R-15, located in Sandia Canyon approximately 2000 ft east of the confluence with Ten Site Canyon. In well R-13, located approximately 5800 ft east-southeast of R-15, the regional aquifer was encountered at a depth of 833 ft.<br><br>Flow in the regional aquifer is generally west to east with some deviation due to pumping the Pajarito Mesa well field. However, the flow tends to come back toward the east due to pumping of other wells. Average flow velocity for the regional aquifer in the vicinity of Sandia Canyon is estimated to be about 95 ft/yr. |
| | **Quality** | Wells R-13 and R-14 have not shown contamination in the regional aquifer during drilling and/or subsequent characterization sampling. Key contaminants include perchlorate in well R-15. |
| **Contaminants** | **Potential Sources** | A description of potential release sites (PRSs) in the Sandia watershed is provided in the Work Plan for Sandia Canyon. The canyon passes through or is adjacent to current Laboratory Technical Areas (TAs) 03, 05, 35, 46, 48, 50, 51, 52, 54, 55, 59, 60, and 63.<br><br>PRSs in Cañada del Buey are provided in the "Work Plan for Sandia Canyon and Cañada del Buey." Cañada del Buey has been a buffer zone for surface and subsurface material disposal areas at TA-54 and for effluent disposal, mostly from former TA-04. It also received discharges from TA-46, -51, and -52.<br><br>Outfall discharges into Sandia Canyon are described in the "Work Plan for Sandia Canyon." Sandia Canyon and its tributaries have received effluent from the Laboratory since the early 1950s. Outfall discharges into the Cañada del Buey drainage are described in the Work Plan for Sandia Canyon and Cañada del Buey. Cañada del Buey received effluent from the Laboratory from the 1950s to the 1990s. |

# Appendix B

*Field Parameter Results*
*(Including this Periodic Monitoring Event*
*and the Last Three Events)*

**Table B-1**
**Field Parameter Monitoring Results**

| Location | Port | Depth (ft) | Date | Field Matrix | Analyte | Result | Units | Sample |
|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | n/a[a] | n/a | 10/18/2006 | WP[b] | Dissolved Oxygen | 272.4 | mg/L | FU061000PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 7/12/2006 | WP | Dissolved Oxygen | 6.1 | mg/L | FU060600PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 10/18/2006 | WP | Instantaneous Stream Flow | 0.0008 | CFS | FN061000PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 7/12/2006 | WP | Instantaneous Stream Flow | 0.1 | CFS | FN060600PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 10/18/2006 | WP | Oxidation Reduction Potential | 432.6 | mV | FU061000PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 10/18/2006 | WP | pH | 7.98 | SU[e] | FU061000PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 7/12/2006 | WP | pH | 7.93 | SU | FU060600PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 10/18/2006 | WP | Specific Conductance | 576 | µS/cm | FU061000PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 7/12/2006 | WP | Specific Conductance | 497 | µS/cm | FU060600PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 10/18/2006 | WP | Temperature | 5.6 | deg C[c] | FU061000PMSC01 |

**Table B-1 (continued)**

| Location | Port | Depth (ft) | Date | Field Matrix | Analyte | Result | Units | Sample |
|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 7/12/2006 | WP | Temperature | 19.4 | deg C | FU060600PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 10/18/2006 | WP | Turbidity | 3.52 | NTU[d] | FU061000PMSC01 |
| Middle Sandia Canyon at terminus of persistent baseflow | n/a | n/a | 7/12/2006 | WP | Turbidity | 4.38 | NTU | FU060600PMSC01 |
| R-11 | 5531 | 855 | 4/20/2006 | WG[f] | Alkalinity-CO3+HCO3 | 114 | mg/L | FU06040G11R01 |
| R-11 | 5531 | 855 | 2/3/2006 | WG | Alkalinity-CO3+HCO3 | 63 | mg/L | FU06010G11R01 |
| R-11 | 5531 | 855 | 11/8/2005 | WG | Alkalinity-CO3+HCO3 | 64.5 | mg/L | FU05110G11R01 |
| R-11 | 5531 | 855 | 10/10/2006 | WG | Dissolved Oxygen | 6.33 | mg/L | FU061000G11R01 |
| R-11 | 5531 | 855 | 4/20/2006 | WG | Dissolved Oxygen | 6.42 | mg/L | FU06040G11R01 |
| R-11 | 5531 | 855 | 2/3/2006 | WG | Dissolved Oxygen | 6.9 | mg/L | FU06010G11R01 |
| R-11 | 5531 | 855 | 11/8/2005 | WG | Dissolved Oxygen | 5.75 | mg/L | FU05110G11R01 |
| R-11 | 5531 | 855 | 10/10/2006 | WG | Oxidation Reduction Potential | 147.7 | mV | FU061000G11R01 |
| R-11 | 5531 | 855 | 4/20/2006 | WG | Oxidation Reduction Potential | 262.3 | mV | FU06040G11R01 |
| R-11 | 5531 | 855 | 2/3/2006 | WG | Oxidation Reduction Potential | 238.6 | mV | FU06010G11R01 |
| R-11 | 5531 | 855 | 11/8/2005 | WG | Oxidation Reduction Potential | 66.1 | mV | FU05110G11R01 |
| R-11 | 5531 | 855 | 10/10/2006 | WG | pH | 7.91 | SU | FU061000G11R01 |
| R-11 | 5531 | 855 | 4/20/2006 | WG | pH | 8.04 | SU | FU06040G11R01 |
| R-11 | 5531 | 855 | 2/3/2006 | WG | pH | 7.9 | SU | FU06010G11R01 |
| R-11 | 5531 | 855 | 10/10/2006 | WG | Specific Conductance | 138 | µS/cm | FU061000G11R01 |
| R-11 | 5531 | 855 | 4/20/2006 | WG | Specific Conductance | 206 | µS/cm | FU06040G11R01 |
| R-11 | 5531 | 855 | 2/3/2006 | WG | Specific Conductance | 178 | µS/cm | FU06010G11R01 |
| R-11 | 5531 | 855 | 10/10/2006 | WG | Temperature | 21.2 | deg C | FU061000G11R01 |
| R-11 | 5531 | 855 | 4/20/2006 | WG | Temperature | 20.06 | deg C | FU06040G11R01 |

**Table B-1 (continued)**

| Location | Port | Depth (ft) | Date | Field Matrix | Analyte | Result | Units | Sample |
|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 2/3/2006 | WG | Temperature | 20 | deg C | FU06010G11R01 |
| R-11 | 5531 | 855 | 11/8/2005 | WG | Temperature | 21.6 | deg C | FU05110G11R01 |
| R-11 | 5531 | 855 | 10/10/2006 | WG | Turbidity | 0.27 | NTU | FU061000G11R01 |
| R-11 | 5531 | 855 | 4/20/2006 | WG | Turbidity | 0.45 | NTU | FU06040G11R01 |
| R-11 | 5531 | 855 | 2/3/2006 | WG | Turbidity | 0.64 | NTU | FU06010G11R01 |
| R-11 | 5531 | 855 | 11/8/2005 | WG | Turbidity | 0.3 | NTU | FU05110G11R01 |
| Sandia Below Wetlands | n/a | n/a | 10/18/2006 | WP | Dissolved Oxygen | 5.8 | mg/L | FU061000P12301 |
| Sandia Below Wetlands | n/a | n/a | 7/12/2006 | WP | Dissolved Oxygen | 7.02 | mg/L | FU060600P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/8/2005 | WS[g] | Dissolved Oxygen | 7.85 | mg/L | FU05060P12301 |
| Sandia Below Wetlands | n/a | n/a | 10/18/2006 | WP | Oxidation Reduction Potential | 389.1 | mV | FU061000P12301 |
| Sandia Below Wetlands | n/a | n/a | 10/18/2006 | WP | pH | 7.89 | SU | FU061000P12301 |
| Sandia Below Wetlands | n/a | n/a | 7/12/2006 | WP | pH | 7.71 | SU | FU060600P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/8/2005 | WS | pH | 7.99 | SU | FU05060P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/7/2004 | WS | pH | 7.77 | SU | FU04060W12301 |
| Sandia Below Wetlands | n/a | n/a | 10/18/2006 | WP | Specific Conductance | 589 | µS/cm | FU061000P12301 |
| Sandia Below Wetlands | n/a | n/a | 7/12/2006 | WP | Specific Conductance | 5.44 | µS/cm | FU060600P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/8/2005 | WS | Specific Conductance | 672 | µS/cm | FU05060P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/7/2004 | WS | Specific Conductance | 627 | µS/cm | FU04060W12301 |

**Table B-1 (continued)**

| Location | Port | Depth (ft) | Date | Field Matrix | Analyte | Result | Units | Sample |
|---|---|---|---|---|---|---|---|---|
| Sandia Below Wetlands | n/a | n/a | 10/18/2006 | WP | Temperature | 7.51 | deg C | FU061000P12301 |
| Sandia Below Wetlands | n/a | n/a | 7/12/2006 | WP | Temperature | 21.8 | deg C | FU060600P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/8/2005 | WS | Temperature | 16.7 | deg C | FU05060P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/7/2004 | WS | Temperature | 16.2 | deg C | FU04060W12301 |
| Sandia Below Wetlands | n/a | n/a | 10/18/2006 | WP | Turbidity | 55.8 | NTU | FU061000P12301 |
| Sandia Below Wetlands | n/a | n/a | 7/12/2006 | WP | Turbidity | 15.1 | NTU | FU060600P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/8/2005 | WS | Turbidity | 41.3 | NTU | FU05060P12301 |
| Sandia Below Wetlands | n/a | n/a | 6/7/2004 | WS | Turbidity | 9.99 | NTU | FU04060W12301 |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | Dissolved Oxygen | 6.1 | mg/L | FU06100G1ACS01 |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | Oxidation Reduction Potential | 342.8 | mV | FU06100G1ACS01 |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | pH | 7.46 | SU | FU06100G1ACS01 |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | Specific Conductance | 98.6 | µS/cm | FU06100G1ACS01 |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | Temperature | 21.4 | deg C | FU06100G1ACS01 |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | Turbidity | 93.3 | NTU | FU06100G1ACS01 |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | Dissolved Oxygen | 9.1 | mg/L | FU06100G5ACS01 |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | Oxidation Reduction Potential | 483.2 | mV | FU06100G5ACS01 |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | pH | 6.63 | SU | FU06100G5ACS01 |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | Specific Conductance | 284 | µS/cm | FU06100G5ACS01 |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | Temperature | 13.4 | deg C | FU06100G5ACS01 |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | Turbidity | 431 | NTU | FU06100G5ACS01 |

**Table B-1 (continued)**

| Location | Port | Depth (ft) | Date | Field Matrix | Analyte | Result | Units | Sample |
|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | n/a | n/a | 10/17/2006 | WP | Dissolved Oxygen | 83.2 | mg/L | FU061000PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 6/29/2006 | WP | Dissolved Oxygen | 4.93 | mg/L | FU060600PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 10/17/2006 | WP | Oxidation Reduction Potential | 330 | mV | FU061000PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 10/17/2006 | WP | pH | 8.7 | SU | FU061000PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 6/29/2006 | WP | pH | 8.36 | SU | FU060600PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 10/17/2006 | WP | Specific Conductance | 521 | µS/cm | FU061000PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 6/29/2006 | WP | Specific Conductance | 385 | µS/cm | FU060600PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 10/17/2006 | WP | Temperature | 13 | deg C | FU061000PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 6/29/2006 | WP | Temperature | 19 | deg C | FU060600PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 10/17/2006 | WP | Turbidity | 2.74 | NTU | FU061000PSFS01 |
| South Fork of Sandia Canyon at E122 | n/a | n/a | 6/29/2006 | WP | Turbidity | 2.43 | NTU | FU060600PSFS01 |

[a] n/a Not applicable.

[b] WP Persistent water-flowing water that is present as a result of storm runoff, snow melt, effluent, or base flow.

[c] Celsius.

[d] NTU Nephelometric turbidity unit.

[e] SU Standard unit.

[f] WG Groundwater.

[g] WS Base flow-persistent stream flow, but not necessarily perennial water. This stream flow is present for periods of weeks or longer. The water source may be effluent discharge or shallow groundwater that discharges in canyons.

# Appendix C

*Groundwater Level Measurements*
*(Including this Periodic Monitoring Event*
*and the Last Three Events)*

**Table C-1**
**Groundwater Level Measurements**

| Location | Port Depth (ft) | Port Common Name | Screen Interval (ft) | Top Depth (ft) | Bottom Depth (ft) | Inner Diam (in) | Outer Diam (in) | Measurement Date | Water Level (ft) | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 10/10/06 | 5838.28 | Transducer |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 08/30/06 | 5838.19 | Manual |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 07/10/06 | 5838.22 | Transducer |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 05/17/06 | 5838.28 | Manual |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 04/20/06 | 5838.63 | Transducer |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 02/03/06 | 5838.75 | Transducer |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 11/09/05 | 5838.19 | Manual |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 11/08/05 | 5838.29 | Transducer |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 08/03/05 | 5838.4 | Transducer |
| R-11 | 855 | Single Completion | 22.9 | 855 | 877.9 | 4.46 | 5.27 | 05/17/05 | 5838.99 | Transducer |
| SCA-1 | 2.1 | Single Completion | 0.6 | 1.3 | 1.9 | 2 | 2.3 | 10/16/06 | 7211.24 | Transducer |
| SCA-1 | 2.1 | Single Completion | 0.6 | 1.3 | 1.9 | 2 | 2.3 | 10/13/06 | 7211.08 | Manual |
| SCA-2 | 15.6 | Single Completion | 4.7 | 10.1 | 14.8 | 2 | 2.3 | 10/13/06 | 6734.75 | Manual |
| SCA-3 | 32.6 | Single Completion | 4.4 | 27.6 | 32 | 2 | 2.3 | 10/13/06 | 6690.77 | Manual |
| SCA-4 | 42 | Single Completion | 4.5 | 37 | 41.5 | 2 | 2.3 | 10/10/06 | 6664.08 | Manual |
| SCA-5 | 65.2 | Single Completion | 9.4 | 55 | 64.4 | 2 | 2.3 | 10/11/06 | 6609.3 | Transducer |
| SCA-5 | 65.2 | Single Completion | 9.4 | 55 | 64.4 | 2 | 2.3 | 10/03/06 | 6609.89 | Manual |
| SCI-1 | 358.4 | Single Completion | 19.5 | 358.4 | 377.9 | 3.8 | 4.5 | 10/13/06 | 6371.61 | Manual |

# Appendix D

*Analytical Results (Including this Periodic Monitoring Event and the Last Three Events)*

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 1.63 | | | 0.725 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 1.13 | | | 0.725 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 1.71 | | | 0.725 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 0.819 | | | 0.725 | mg/L | J | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 127 | | | 0.725 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 133 | | | 0.725 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 128 | | | 0.725 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 133 | | | 0.725 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.059 | | | 0.01 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.069 | | | 0.01 | mg/L | | J- | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.03 | | | 0.01 | mg/L | J | JN- | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.042 | | | 0.01 | mg/L | J | J-, JN- | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Bromide | | 0.288 | | | 0.066 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Bromide | | 0.206 | | | 0.066 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Bromide | | 0.282 | | | 0.066 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Bromide | | 0.164 | | | 0.066 | mg/L | J | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Calcium | | 26 | | | 0.036 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Calcium | | 22.1 | | | 0.036 | mg/L | | | 167148 | GF060600PMSC01 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Calcium | | 25.2 | | | 0.036 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Calcium | | 22.7 | | | 0.036 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Chloride | | 75 | | | 0.66 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Chloride | | 64.7 | | | 0.66 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Chloride | | 75 | | | 0.66 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Chloride | | 63.3 | | | 0.66 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Fluoride | | 0.396 | | | 0.033 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Fluoride | | 0.473 | | | 0.033 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Fluoride | | 0.397 | | | 0.033 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Fluoride | | 0.47 | | | 0.033 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 93.5 | | | 0.085 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 77.8 | | | 0.02 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 90.8 | | | 0.085 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 75.6 | | | 0.02 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Magnesium | | 6.94 | | | 0.085 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Magnesium | | 5.67 | | | 0.085 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Magnesium | | 6.74 | | | 0.085 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Magnesium | | 5.8 | | | 0.085 | mg/L | | | 167148 | GU060600PMSC01 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 4.1 | | | 0.014 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 1.13 | | | 0.014 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 4.39 | | | 0.014 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 1.12 | | | 0.014 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 6850 | Perchlorate | | 0.325 | | | 0.05 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 6850 | Perchlorate | | 0.324 | | | 0.05 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 150.1 | pH | | 8.19 | | | 0.01 | SU | H | J | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 150.1 | pH | | 7.86 | | | 0.01 | SU | H | J | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 150.1 | pH | | 8.19 | | | 0.01 | SU | H | J | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 150.1 | pH | | 7.87 | | | 0.01 | SU | H | J | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Potassium | | 11.2 | | | 0.05 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Potassium | | 11.7 | | | 0.05 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Potassium | | 11.1 | | | 0.05 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Potassium | | 11.6 | | | 0.05 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Silicon Dioxide | | 88.4 | | | 0.032 | mg/L | | J | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Silicon Dioxide | | 89.9 | | | 0.032 | mg/L | | J- | 167148 | GF060600PMSC01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 87 | | | 0.032 | mg/L | | J | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 92.3 | | | 0.032 | mg/L | | J- | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Sodium | | 90.1 | | | 0.045 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Sodium | | 80.9 | | | 0.045 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Sodium | | 87.1 | | | 0.045 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Sodium | | 83.9 | | | 0.045 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 120.1 | Specific Conductance | | 620 | | | 1 | uS/cm | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 120.1 | Specific Conductance | | 579 | | | 1 | uS/cm | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 120.1 | Specific Conductance | | 616 | | | 1 | uS/cm | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 120.1 | Specific Conductance | | 583 | | | 1 | uS/cm | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Sulfate | | 18.3 | | | 0.1 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Sulfate | | 15 | | | 0.1 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Sulfate | | 18.2 | | | 0.1 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Sulfate | | 15.1 | | | 0.1 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 383 | | | 2.38 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 402 | | | 2.38 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 390 | | | 2.38 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 397 | | | 2.38 | mg/L | | | 167148 | GU060600PMSC01 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.299 | | | 0.01 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.404 | | | 0.01 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.446 | | | 0.01 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.68 | | | 0.01 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 4.27 | | | 0.33 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 7.41 | | | 0.33 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 2.61 | | | 0.01 | mg/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.15 | | | 0.01 | mg/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 2.52 | | | 0.01 | mg/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.11 | | | 0.01 | mg/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Aluminum | | 87.9 | | | 68 | ug/L | J | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Aluminum | < | 68 | | | 68 | ug/L | U | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Aluminum | | 350 | | | 68 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Aluminum | | 326 | | | 68 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Barium | | 32.9 | | | 1 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Barium | | 36.5 | | | 1 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Barium | | 34.1 | | | 1 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Barium | | 40.2 | | | 1 | ug/L | | | 167148 | GU060600PMSC01 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Boron | | 59 | | | 10 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Boron | | 63 | | | 10 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Boron | | 58.2 | | | 10 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Boron | | 64.7 | | | 10 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6020 | Chromium | | 5.8 | | | 1 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6020 | Chromium | | 9.7 | | | 1 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6020 | Chromium | | 7.9 | | | 1 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6020 | Chromium | | 11.7 | | | 1 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Copper | | 4.4 | | | 3 | ug/L | J | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Copper | | 4.7 | | | 3 | ug/L | J | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Copper | | 3.9 | | | 3 | ug/L | J | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Copper | | 4.9 | | | 3 | ug/L | J | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Iron | | 93.3 | | | 18 | ug/L | J | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Iron | < | 85.4 | | | 18 | ug/L | J | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Iron | | 267 | | | 18 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Iron | | 231 | | | 18 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Manganese | < | 2 | | | 2 | ug/L | U | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Manganese | | 14.2 | | | 2 | ug/L | | | 167148 | GF060600PMSC01 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Manganese | | 6 | | | 2 | ug/L | J | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Manganese | | 19.4 | | | 2 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Molybdenum | | 13.3 | | | 2 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Molybdenum | | 16.6 | | | 2 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Molybdenum | | 13.7 | | | 2 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Molybdenum | | 17.2 | | | 2 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6020 | Nickel | | 1.8 | | | 0.5 | ug/L | J | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6020 | Nickel | < | 2.2 | | | 0.5 | ug/L | | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6020 | Nickel | | 1.9 | | | 0.5 | ug/L | J | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6020 | Nickel | < | 2.3 | | | 0.5 | ug/L | | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Strontium | | 113 | | | 1 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Strontium | | 103 | | | 1 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 110 | | | 1 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 106 | | | 1 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6020 | Uranium | | 0.89 | | | 0.05 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6020 | Uranium | | 1.2 | | | 0.05 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6020 | Uranium | | 0.89 | | | 0.05 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6020 | Uranium | | 1.3 | | | 0.05 | ug/L | | | 167148 | GU060600PMSC01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Vanadium | | 9.8 | | | 1 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Vanadium | | 9.3 | | | 1 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Vanadium | | 9.7 | | | 1 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Vanadium | | 9.8 | | | 1 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Zinc | | 15.8 | | | 2 | ug/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Zinc | | 20.3 | | | 2 | ug/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Zinc | | 17.6 | | | 2 | ug/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Zinc | | 25.8 | | | 2 | ug/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Americium-241 | | -0.00316 | 0.0114 | 0.024 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Americium-241 | | -0.000295 | 0.00179 | 0.0201 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | -0.000982 | 0.00267 | 0.0242 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | -0.0000755 | 0.00184 | 0.0207 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Cesium-137 | | 0.413 | 1.94 | 3.47 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Cesium-137 | | 1.45 | 1.35 | 5.15 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Cesium-137 | | 0.329 | 1.05 | 3.81 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Cesium-137 | | -0.69 | 1.2 | 4.16 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Cobalt-60 | | -0.144 | 1.02 | 3.76 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Cobalt-60 | | 0.193 | 1.06 | 4.18 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Cobalt-60 | | -0.209 | 1.19 | 4.32 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.852 | 1.19 | 4.77 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 900 | Gross alpha | | 0.977 | 0.559 | 1.78 | | pCi/L | U | J-, U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 900 | Gross alpha | | 0.596 | 0.376 | 1.34 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 3.55 | 1.35 | 3.02 | | pCi/L | | J, J- | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 0.161 | 0.386 | 1.42 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 900 | Gross beta | | 12.6 | 1.34 | 2.17 | | pCi/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 900 | Gross beta | | 11.8 | 1.01 | 2.9 | | pCi/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 7.89 | 1.16 | 2.52 | | pCi/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 11.7 | 0.908 | 1.75 | | pCi/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Gross gamma | | 105 | 84 | 390 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Gross gamma | | 84.7 | 75.5 | 314 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Gross gamma | | 71.6 | 86 | 268 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Gross gamma | | 93.3 | 87.9 | 304 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Neptunium-237 | | -0.0418 | 8.29 | 29 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Neptunium-237 | | -11.8 | 9.45 | 27.8 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Neptunium-237 | | 13.3 | 14.6 | 29.5 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Neptunium-237 | | -0.782 | 8.06 | 28.3 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Plutonium-238 | | 0.00847 | 0.00995 | 0.0438 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Plutonium-238 | | 0.00313 | 0.00314 | 0.0151 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | -0.00138 | 0.0138 | 0.0445 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | 0.00322 | 0.00322 | 0.0154 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00847 | 0.0127 | 0.0512 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0 | 0.00443 | 0.0175 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00241 | 0.0087 | 0.0521 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00161 | 0.00278 | 0.018 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Potassium-40 | | 21.4 | 18 | 37.9 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Potassium-40 | | 27.2 | 19.6 | 48.9 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Potassium-40 | | 50.5 | 14.6 | 62.8 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Potassium-40 | | 18 | 25.1 | 36.5 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Sodium-22 | | 1.51 | 1.06 | 4.38 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Sodium-22 | | 0.906 | 1.45 | 5.03 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Sodium-22 | | 0.42 | 1.02 | 3.99 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Sodium-22 | | -1.21 | 1.08 | 3.74 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | 905.0 | Strontium-90 | | -0.37 | 0.0983 | 0.406 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | 905.0 | Strontium-90 | | 0.183 | 0.0788 | 0.286 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.116 | 0.0585 | 0.24 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.0617 | 0.0825 | 0.343 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Uranium-234 | | 0.331 | 0.0341 | 0.0473 | | pCi/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Uranium-234 | | 0.538 | 0.0483 | 0.0505 | | pCi/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.329 | 0.0338 | 0.0432 | | pCi/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.55 | 0.0475 | 0.0457 | | pCi/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0224 | 0.0098 | 0.0399 | | pCi/L | U | U | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0329 | 0.011 | 0.0426 | | pCi/L | U | U | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0154 | 0.00891 | 0.0365 | | pCi/L | U | U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0244 | 0.00909 | 0.0385 | | pCi/L | U | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Uranium-238 | | 0.265 | 0.0295 | 0.0503 | | pCi/L | | | 174497 | GF061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Uranium-238 | | 0.555 | 0.0493 | 0.0538 | | pCi/L | | | 167148 | GF060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | 0.269 | 0.0287 | 0.046 | | pCi/L | | | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | 0.528 | 0.0462 | 0.0486 | | pCi/L | | | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | | Voa | 8260 | Acetone | < | 2.28 | | | 1.25 | ug/L | J | J+, U | 174497 | GU061000PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 10/18/2006 | WP | UF | CS | FTB | Voa | 8260 | Acetone | | 1.44 | | | 1.25 | ug/L | J | J+ | 174497 | GU061000PMSC01-FTB | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | | Voa | 8260 | Acetone | < | 3.31 | | | 1.25 | ug/L | J | U | 167148 | GU060600PMSC01 | GELC |
| Middle Sandia Canyon at terminus of persistent baseflow | | | 7/12/2006 | WP | UF | CS | FTB | Voa | 8260 | Acetone | < | 1.66 | | | 1.25 | ug/L | J | J+, U | 167148 | GU060600PMSC01-FTB | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 0.946 | | | 0.725 | mg/L | J | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3 | | 0.99 | | | 0.725 | mg/L | J | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | < | 0.725 | | | 0.725 | mg/L | U | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3 | < | 0.725 | | | 0.725 | mg/L | U | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | < | 1.45 | | | 1.45 | mg/L | U | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | < | 1.45 | | | 1.45 | mg/L | U | | 136847 | GF05050G11R01 | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3 | < | 1.45 | | | 1.45 | mg/L | U | | 136847 | GF05050G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 1.24 | | | 0.725 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 310.1 | Alkalinity-CO3 | | 1.09 | | | 0.725 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | < | 0.725 | | | 0.725 | mg/L | U | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 310.1 | Alkalinity-CO3 | < | 0.725 | | | 0.725 | mg/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 310.1 | Alkalinity-CO3 | | 0.725 | | | 0.725 | mg/L | J | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | UF | CS | FB | Inorg | 310.1 | Alkalinity-CO3 | < | 1.45 | | | 1.45 | mg/L | U | | 136847 | GU05050G11R01-FB | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 70.6 | | | 0.725 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 70.6 | | | 0.725 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 71.1 | | | 0.725 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 70.6 | | | 0.725 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 68.4 | | | 1.45 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 68.7 | | | 1.45 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 68.7 | | | 1.45 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 70.6 | | | 0.725 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 71.1 | | | 0.725 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 71.1 | | | 0.725 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 1.58 | | | 0.725 | mg/L | | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 71.1 | | | 0.725 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 6010 | Calcium | | 20.5 | | | 0.036 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 6010 | Calcium | | 20.4 | | | 0.036 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 6010 | Calcium | | 21.6 | | | 0.036 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 6010 | Calcium | | 21.1 | | | 0.036 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 6010 | Calcium | | 20.5 | | | 0.036 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 6010 | Calcium | | 20.4 | | | 0.036 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 6010 | Calcium | | 20.6 | | | 0.036 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 6010 | Calcium | | 20.7 | | | 0.036 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Calcium | | 20.6 | | | 0.036 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 6010 | Calcium | | 20.5 | | | 0.036 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 6010 | Calcium | < | 0.159 | | | 0.036 | mg/L | | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Calcium | | 20.5 | | | 0.036 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Inorg | 6010 | Calcium | | 20.6 | | | 0.036 | mg/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Inorg | 6010 | Calcium | | 21.3 | | | 0.036 | mg/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Inorg | 6010 | Calcium | | 21.1 | | | 0.036 | mg/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 300 | Chloride | | 4.16 | | | 0.066 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 300 | Chloride | | 4.21 | | | 0.066 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 300 | Chloride | | 4.3 | | | 0.066 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 300 | Chloride | | 4.25 | | | 0.066 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 300 | Chloride | | 4.07 | | | 0.053 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 300 | Chloride | | 3.75 | | | 0.053 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 300 | Chloride | | 3.75 | | | 0.053 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 300 | Chloride | | 4.28 | | | 0.066 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 300 | Chloride | | 4.14 | | | 0.066 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 300 | Chloride | | 4.12 | | | 0.066 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 300 | Chloride | < | 0.066 | | | 0.066 | mg/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 300 | Chloride | | 4.1 | | | 0.066 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | UF | CS | FB | Inorg | 300 | Chloride | < | 0.053 | | | 0.053 | mg/L | U | | 136847 | GU05050G11R01-FB | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 300 | Fluoride | | 0.42 | | | 0.033 | mg/L | | | 173943 | GF061000G11R01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 300 | Fluoride | | 0.423 | | | 0.033 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 300 | Fluoride | | 0.427 | | | 0.033 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 300 | Fluoride | | 0.36 | | | 0.033 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 300 | Fluoride | | 0.469 | | | 0.03 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 300 | Fluoride | | 0.467 | | | 0.03 | mg/L | | J+ | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 300 | Fluoride | | 0.464 | | | 0.03 | mg/L | | J+ | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 300 | Fluoride | | 0.415 | | | 0.033 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 300 | Fluoride | | 0.41 | | | 0.033 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 300 | Fluoride | | 0.418 | | | 0.033 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 300 | Fluoride | < | 0.033 | | | 0.033 | mg/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 300 | Fluoride | | 0.473 | | | 0.033 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | UF | CS | FB | Inorg | 300 | Fluoride | < | 0.03 | | | 0.03 | mg/L | U | | 136847 | GU05050G11R01-FB | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | A2340 | Hardness | | 74.3 | | | 0.085 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | A2340 | Hardness | | 73.9 | | | 0.085 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | A2340 | Hardness | | 77.2 | | | 0.085 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | A2340 | Hardness | | 75.4 | | | 0.085 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | A2340 | Hardness | | 74.8 | | | 0.085 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | A2340 | Hardness | | 75 | | | 0.085 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | A2340 | Hardness | | 74.9 | | | 0.085 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | A2340 | Hardness | | 73.3 | | | 0.085 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | A2340 | Hardness | | 0.54 | | | 0.085 | mg/L | | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | A2340 | Hardness | | 73.4 | | | 0.085 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Inorg | A2340 | Hardness | | 75 | | | 0.085 | mg/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 6010 | Magnesium | | 5.6 | | | 0.085 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 6010 | Magnesium | | 5.61 | | | 0.085 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 6010 | Magnesium | | 5.62 | | | 0.085 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 6010 | Magnesium | | 5.51 | | | 0.085 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 6010 | Magnesium | | 5.71 | | | 0.085 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 6010 | Magnesium | | 5.51 | | | 0.085 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 6010 | Magnesium | | 5.57 | | | 0.085 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 6010 | Magnesium | | 5.7 | | | 0.085 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Magnesium | | 5.69 | | | 0.085 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 6010 | Magnesium | | 5.36 | | | 0.085 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 6010 | Magnesium | < | 0.085 | | | 0.085 | mg/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Magnesium | | 5.37 | | | 0.085 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Inorg | 6010 | Magnesium | | 5.73 | | | 0.085 | mg/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Inorg | 6010 | Magnesium | | 5.74 | | | 0.085 | mg/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Inorg | 6010 | Magnesium | | 5.7 | | | 0.085 | mg/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.98 | | | 0.14 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.91 | | | 0.14 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 5.07 | | | 0.07 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 5.18 | | | 0.07 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 4.06 | | | 0.085 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.72 | | | 0.17 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.45 | | | 0.17 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.98 | | | 0.14 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.92 | | | 0.14 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 4.58 | | | 0.07 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 353.1 | Nitrate-Nitrite as N | < | 0.014 | | | 0.014 | mg/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 4.53 | | | 0.07 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 4.54 | | | 0.085 | mg/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.82 | | | 0.17 | mg/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 8/3/2005 | WG | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.26 | | | 0.17 | mg/L | | | 142495 | GU05080G11R01 | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.82 | | | 0.03 | mg/L | | | 136847 | GU05050G11R01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 5/17/2005 | WG | UF | CS | FB | Inorg | 353.1 | Nitrate-Nitrite as N | < | 0.003 | | | 0.003 | mg/L | U | R | 136847 | GU05050G11R01-FB | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | UF | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.66 | | | 0.03 | mg/L | | | 136847 | GU05050G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 6850 | Perchlorate | | 0.691 | | | 0.05 | ug/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 6850 | Perchlorate | | 0.674 | | | 0.05 | ug/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 6850 | Perchlorate | | 0.807 | | | 0.05 | ug/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FB | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 166962 | GF060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FB | Inorg | 6850 | Perchlorate | < | 0.05 | | | 0.05 | ug/L | U | | 166962 | GF060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 6850 | Perchlorate | | 0.797 | | | 0.05 | ug/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 6850 | Perchlorate | | 0.716 | | | 0.05 | ug/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 150.1 | pH | | 8.01 | | | 0.01 | SU | H | J | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 150.1 | pH | | 8.02 | | | 0.01 | SU | H | J | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 150.1 | pH | | 8.01 | | | 0.01 | SU | H | J | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 150.1 | pH | | 7.98 | | | 0.01 | SU | H | J | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 150.1 | pH | | 7.9 | | | 0.01 | SU | H | J | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 150.1 | pH | | 8.02 | | | 0.01 | SU | H | J | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 150.1 | pH | | 8.02 | | | 0.01 | SU | H | J | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 150.1 | pH | | 7.99 | | | 0.01 | SU | H | J | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 150.1 | pH | | 5.74 | | | 0.01 | SU | H | J | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 150.1 | pH | | 7.93 | | | 0.01 | SU | H | J | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 6010 | Potassium | | 1.35 | | | 0.05 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 6010 | Potassium | | 1.38 | | | 0.05 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 6010 | Potassium | | 1.49 | | | 0.05 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 6010 | Potassium | | 1.41 | | | 0.05 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 6010 | Potassium | | 1.41 | | | 0.05 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 6010 | Potassium | | 1.4 | | | 0.05 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 6010 | Potassium | | 1.44 | | | 0.05 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 6010 | Potassium | | 1.41 | | | 0.05 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Potassium | | 1.39 | | | 0.05 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 6010 | Potassium | | 1.4 | | | 0.05 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 6010 | Potassium | < | 0.05 | | | 0.05 | mg/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Potassium | | 1.38 | | | 0.05 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Inorg | 6010 | Potassium | | 1.45 | | | 0.05 | mg/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Inorg | 6010 | Potassium | | 1.47 | | | 0.05 | mg/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Inorg | 6010 | Potassium | | 1.44 | | | 0.05 | mg/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 6010 | Silicon Dioxide | | 73.6 | | | 0.032 | mg/L | | J- | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 6010 | Silicon Dioxide | | 72.9 | | | 0.032 | mg/L | | J- | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 6010 | Silicon Dioxide | | 73.5 | | | 0.032 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 6010 | Silicon Dioxide | | 73 | | | 0.032 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 6010 | Silicon Dioxide | | 75.4 | | | 0.032 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 6010 | Silicon Dioxide | | 73.2 | | | 0.032 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 6010 | Silicon Dioxide | | 73.4 | | | 0.032 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 74.2 | | | 0.032 | mg/L | | J- | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Silicon Dioxide | | 73.6 | | | 0.032 | mg/L | | J- | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 70.6 | | | 0.032 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 6010 | Silicon Dioxide | | 0.12 | | | 0.032 | mg/L | J | J- | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Silicon Dioxide | | 71.2 | | | 0.032 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 74.9 | | | 0.032 | mg/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 74.9 | | | 0.032 | mg/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Inorg | 6010 | Silicon Dioxide | | 74.7 | | | 0.032 | mg/L | | | 149897 | GU05110G11R90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 8/3/2005 | WG | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 71.6 | | | 0.032 | mg/L | | | 142495 | GU05080G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 6010 | Sodium | | 11.3 | | | 0.045 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 6010 | Sodium | | 11.2 | | | 0.045 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 6010 | Sodium | | 12.5 | | | 0.045 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 6010 | Sodium | | 12 | | | 0.045 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 6010 | Sodium | | 11.6 | | | 0.045 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 6010 | Sodium | | 11.3 | | | 0.045 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 6010 | Sodium | | 11.3 | | | 0.045 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 6010 | Sodium | | 11.6 | | | 0.045 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Sodium | | 11.6 | | | 0.045 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 6010 | Sodium | | 11.8 | | | 0.045 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 6010 | Sodium | < | 0.225 | | | 0.045 | mg/L | | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 6010 | Sodium | | 11.7 | | | 0.045 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Inorg | 6010 | Sodium | | 11.7 | | | 0.045 | mg/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Inorg | 6010 | Sodium | | 11.5 | | | 0.045 | mg/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Inorg | 6010 | Sodium | | 11.6 | | | 0.045 | mg/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 120.1 | Specific Conductance | | 209 | | | 1 | uS/cm | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 120.1 | Specific Conductance | | 210 | | | 1 | uS/cm | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 120.1 | Specific Conductance | | 208 | | | 1 | uS/cm | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 120.1 | Specific Conductance | | 207 | | | 1 | uS/cm | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 120.1 | Specific Conductance | | 197 | | | 1 | uS/cm | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 120.1 | Specific Conductance | | 208 | | | 1 | uS/cm | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 120.1 | Specific Conductance | | 215 | | | 1 | uS/cm | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 120.1 | Specific Conductance | | 236 | | | 1 | uS/cm | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 120.1 | Specific Conductance | | 1.48 | | | 1 | uS/cm | | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 120.1 | Specific Conductance | | 234 | | | 1 | uS/cm | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 300 | Sulfate | | 7.84 | | | 0.1 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 300 | Sulfate | | 7.95 | | | 0.1 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 300 | Sulfate | | 8.04 | | | 0.1 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 300 | Sulfate | | 7.96 | | | 0.1 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 300 | Sulfate | | 7.09 | | | 0.057 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 300 | Sulfate | | 6.61 | | | 0.057 | mg/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 300 | Sulfate | | 6.54 | | | 0.057 | mg/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 300 | Sulfate | | 7.95 | | | 0.1 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 300 | Sulfate | | 7.76 | | | 0.1 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 300 | Sulfate | | 7.7 | | | 0.1 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 300 | Sulfate | | 0.327 | | | 0.1 | mg/L | J | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 300 | Sulfate | | 7.77 | | | 0.1 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 5/17/2005 | WG | UF | CS | FB | Inorg | 300 | Sulfate | < | 0.057 | | | 0.057 | mg/L | U | | 136847 | GU05050G11R01-FB | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 187 | | | 2.38 | mg/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 215 | | | 2.38 | mg/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 196 | | | 2.38 | mg/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 208 | | | 2.38 | mg/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 197 | | | 2.38 | mg/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 198 | | | 2.38 | mg/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FB | Inorg | 160.1 | Total Dissolved Solids | < | 2.38 | | | 2.38 | mg/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 193 | | | 2.38 | mg/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 196 | | | 2.38 | mg/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 194 | | | 2.38 | mg/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.02 | | | 0.02 | mg/L | U | UJ | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.02 | | | 0.02 | mg/L | U | UJ | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | R, UJ | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | R, UJ | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.131 | | | 0.01 | mg/L | | J, J- | 155408 | GF06010G11R01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.119 | | | 0.01 | mg/L | | U | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.134 | | | 0.01 | mg/L | | U | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.054 | | | 0.02 | mg/L | J | JN- | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.1 | | | 0.1 | mg/L | U | UJ | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | R, UJ | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | R, UJ | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | R, UJ | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.023 | | | 0.01 | mg/L | J | J, J-, U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.084 | | | 0.01 | mg/L | J | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | UJ | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6010 | Barium | | 35.7 | | | 1 | ug/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6010 | Barium | | 35 | | | 1 | ug/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6010 | Barium | | 42.2 | | | 1 | ug/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6010 | Barium | | 39.1 | | | 1 | ug/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6010 | Barium | | 38 | | | 1 | ug/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6010 | Barium | | 37.4 | | | 1 | ug/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6010 | Barium | | 37.7 | | | 1 | ug/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6010 | Barium | | 35.6 | | | 1 | ug/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6010 | Barium | | 35.3 | | | 1 | ug/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6010 | Barium | | 38.2 | | | 1 | ug/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6010 | Barium | | 1 | | | 1 | ug/L | J | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6010 | Barium | | 37.4 | | | 1 | ug/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6010 | Barium | | 37.9 | | | 1 | ug/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6010 | Barium | | 39 | | | 1 | ug/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6010 | Barium | | 38.5 | | | 1 | ug/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6020 | Chromium | | 29.4 | | | 1 | ug/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6020 | Chromium | | 29.3 | | | 1 | ug/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6020 | Chromium | | 27.9 | | | 1 | ug/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6020 | Chromium | | 27.3 | | | 1 | ug/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 4/20/2006 | WG | F | CS | | Met | 6020 | Chromium | | 28.1 | | | 1 | ug/L | | | 161214 | GF06040G11R01 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6010 | Chromium | | 25.5 | | | 1 | ug/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6020 | Chromium | | 28.5 | | | 1 | ug/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6020 | Chromium | | 29 | | | 1 | ug/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6020 | Chromium | | 30.9 | | | 1 | ug/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6020 | Chromium | < | 2.7 | | | 1 | ug/L | J | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6020 | Chromium | | 28.8 | | | 1 | ug/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 4/20/2006 | WG | UF | CS | | Met | 6020 | Chromium | | 25.2 | | | 1 | ug/L | | | 161214 | GU06040G11R01 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6010 | Chromium | | 25.1 | | | 1 | ug/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6010 | Copper | | 5 | | | 3 | ug/L | J | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6010 | Copper | | 3.5 | | | 3 | ug/L | J | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6010 | Copper | | 3.6 | | | 3 | ug/L | J | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6010 | Copper | | 3.6 | | | 3 | ug/L | J | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6010 | Copper | | 3.4 | | | 3 | ug/L | J | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6010 | Copper | | 6 | | | 3 | ug/L | J | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6010 | Copper | | 3.1 | | | 3 | ug/L | J | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6010 | Molybdenum | | 2.4 | | | 2 | ug/L | J | | 173943 | GF061000G11R01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6010 | Molybdenum | < | 2 | | | 2 | ug/L | U | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6010 | Molybdenum | < | 3.2 | | | 2 | ug/L | J | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6010 | Molybdenum | < | 2.4 | | | 2 | ug/L | J | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6010 | Molybdenum | < | 2.3 | | | 2 | ug/L | J | U | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6020 | Molybdenum | | 2 | | | 0.1 | ug/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6020 | Molybdenum | | 2 | | | 0.1 | ug/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6010 | Molybdenum | < | 2 | | | 2 | ug/L | U | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6010 | Molybdenum | < | 2 | | | 2 | ug/L | U | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6010 | Molybdenum | < | 3.1 | | | 2 | ug/L | J | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6010 | Molybdenum | < | 2 | | | 2 | ug/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6010 | Molybdenum | < | 3.2 | | | 2 | ug/L | J | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6010 | Molybdenum | < | 2.9 | | | 2 | ug/L | J | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6020 | Molybdenum | | 2.1 | | | 0.1 | ug/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6020 | Molybdenum | | 2 | | | 0.1 | ug/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6020 | Nickel | | 1.2 | | | 0.5 | ug/L | J | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6020 | Nickel | | 1.1 | | | 0.5 | ug/L | J | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6020 | Nickel | | 1.6 | | | 0.5 | ug/L | J | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6020 | Nickel | | 1.6 | | | 0.5 | ug/L | J | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6020 | Nickel | | 0.85 | | | 0.5 | ug/L | J | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6010 | Nickel | | 1 | | | 1 | ug/L | J | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6010 | Nickel | < | 1 | | | 1 | ug/L | U | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6020 | Nickel | | 1.1 | | | 0.5 | ug/L | J | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6020 | Nickel | | 1.1 | | | 0.5 | ug/L | J | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6020 | Nickel | | 1.1 | | | 0.5 | ug/L | J | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6020 | Nickel | < | 0.5 | | | 0.5 | ug/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6020 | Nickel | | 0.94 | | | 0.5 | ug/L | J | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6020 | Nickel | | 0.87 | | | 0.5 | ug/L | J | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6010 | Nickel | < | 1 | | | 1 | ug/L | U | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6010 | Nickel | < | 1 | | | 1 | ug/L | U | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6010 | Strontium | | 82 | | | 1 | ug/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6010 | Strontium | | 80.6 | | | 1 | ug/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6010 | Strontium | | 90.5 | | | 1 | ug/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6010 | Strontium | | 87 | | | 1 | ug/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6010 | Strontium | | 83.1 | | | 1 | ug/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6010 | Strontium | | 83.1 | | | 1 | ug/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6010 | Strontium | | 83.4 | | | 1 | ug/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6010 | Strontium | | 81.9 | | | 1 | ug/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6010 | Strontium | | 81.2 | | | 1 | ug/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6010 | Strontium | | 84.4 | | | 1 | ug/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6010 | Strontium | < | 1 | | | 1 | ug/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6010 | Strontium | | 84.2 | | | 1 | ug/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6010 | Strontium | | 83 | | | 1 | ug/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6010 | Strontium | | 86.2 | | | 1 | ug/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6010 | Strontium | | 86.3 | | | 1 | ug/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6020 | Thallium | | 0.44 | | | 0.4 | ug/L | J | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6020 | Thallium | | 0.45 | | | 0.4 | ug/L | J | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6020 | Thallium | | 0.52 | | | 0.4 | ug/L | J | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 166962 | GU060500G11R01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6020 | Uranium | | 0.75 | | | 0.05 | ug/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6020 | Uranium | | 0.7 | | | 0.05 | ug/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6020 | Uranium | | 0.77 | | | 0.05 | ug/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6020 | Uranium | | 0.77 | | | 0.05 | ug/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6020 | Uranium | | 0.73 | | | 0.05 | ug/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6020 | Uranium | | 0.72 | | | 0.05 | ug/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6020 | Uranium | | 0.71 | | | 0.05 | ug/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6020 | Uranium | | 0.7 | | | 0.05 | ug/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6020 | Uranium | | 0.69 | | | 0.05 | ug/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6020 | Uranium | | 0.76 | | | 0.05 | ug/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6020 | Uranium | < | 0.05 | | | 0.05 | ug/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6020 | Uranium | | 0.75 | | | 0.05 | ug/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6020 | Uranium | | 0.75 | | | 0.05 | ug/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6020 | Uranium | | 0.72 | | | 0.05 | ug/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6020 | Uranium | | 0.69 | | | 0.05 | ug/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6010 | Vanadium | | 6.7 | | | 1 | ug/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6010 | Vanadium | | 7.3 | | | 1 | ug/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6010 | Vanadium | | 8.5 | | | 1 | ug/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6010 | Vanadium | | 7.6 | | | 1 | ug/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6010 | Vanadium | | 6.5 | | | 1 | ug/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6010 | Vanadium | | 7.4 | | | 1 | ug/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6010 | Vanadium | | 7.6 | | | 1 | ug/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6010 | Vanadium | | 7.7 | | | 1 | ug/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6010 | Vanadium | | 6.9 | | | 1 | ug/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6010 | Vanadium | | 7.1 | | | 1 | ug/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6010 | Vanadium | < | 1 | | | 1 | ug/L | U | | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6010 | Vanadium | | 7 | | | 1 | ug/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6010 | Vanadium | | 6.5 | | | 1 | ug/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6010 | Vanadium | | 7.4 | | | 1 | ug/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6010 | Vanadium | | 7.3 | | | 1 | ug/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Met | 6010 | Zinc | | 17.7 | | | 2 | ug/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Met | 6010 | Zinc | | 17.2 | | | 2 | ug/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Met | 6010 | Zinc | | 37 | | | 2 | ug/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Met | 6010 | Zinc | | 27.3 | | | 2 | ug/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | F | CS | | Met | 6010 | Zinc | | 17.6 | | | 2 | ug/L | | | 155408 | GF06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | | Met | 6010 | Zinc | | 16 | | | 2 | ug/L | | | 149897 | GF05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | F | CS | FD | Met | 6010 | Zinc | | 11.2 | | | 2 | ug/L | | | 149897 | GF05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Met | 6010 | Zinc | | 16.9 | | | 2 | ug/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Met | 6010 | Zinc | | 17.3 | | | 2 | ug/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Met | 6010 | Zinc | | 25.1 | | | 2 | ug/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Met | 6010 | Zinc | < | 6.8 | | | 2 | ug/L | J | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Met | 6010 | Zinc | | 21.1 | | | 2 | ug/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Met | 6010 | Zinc | | 19.9 | | | 2 | ug/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Met | 6010 | Zinc | | 12.1 | | | 2 | ug/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Met | 6010 | Zinc | | 11.8 | | | 2 | ug/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | H300 | Americium-241 | | 0.0164 | 0.0163 | 0.0268 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | H300 | Americium-241 | | -0.00171 | 0.00789 | 0.0215 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | H300 | Americium-241 | | -0.00337 | 0.00652 | 0.0228 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | H300 | Americium-241 | | 0.0235 | 0.0177 | 0.029 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | H300 | Americium-241 | | -0.00967 | 0.00769 | 0.0253 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | H300 | Americium-241 | | 0.00185 | 0.00321 | 0.0209 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | H300 | Americium-241 | | -0.00396 | 0.00335 | 0.0195 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | H300 | Americium-241 | | -0.0935 | 0.0141 | 0.0211 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | H300 | Americium-241 | | 0.00681 | 0.00553 | 0.0229 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | H300 | Americium-241 | | 0.00371 | 0.00534 | 0.0291 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | H300 | Americium-241 | | 0.00695 | 0.00385 | 0.0335 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | H300 | Americium-241 | | 0.00542 | 0.00414 | 0.0294 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 901.1 | Cesium-137 | | 1.7 | 1.23 | 4.63 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 901.1 | Cesium-137 | | -1.17 | 1.25 | 4.31 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 901.1 | Cesium-137 | | 1.99 | 1.72 | 6.6 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 901.1 | Cesium-137 | | 1.47 | 1.36 | 5.37 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 901.1 | Cesium-137 | | 1.18 | 1.32 | 4.91 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Cesium-137 | | -0.742 | 1.1 | 3.4 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 901.1 | Cesium-137 | | 2.07 | 1.14 | 4.54 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 901.1 | Cesium-137 | | -0.457 | 0.897 | 3.14 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Cesium-137 | | 0.0414 | 1.19 | 4.25 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 901.1 | Cesium-137 | | -0.546 | 0.827 | 2.86 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | 901.1 | Cesium-137 | | -0.467 | 0.751 | 2.54 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | 901.1 | Cesium-137 | | 1.08 | 0.713 | 2.31 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 901.1 | Cobalt-60 | | -2.32 | 1.05 | 3.23 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 901.1 | Cobalt-60 | | -0.349 | 1.04 | 3.75 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 901.1 | Cobalt-60 | | -1.63 | 1.6 | 5.36 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 901.1 | Cobalt-60 | | 0.925 | 1.04 | 4.42 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.381 | 1.31 | 4.95 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Cobalt-60 | | -0.258 | 1.02 | 3.23 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.279 | 1.47 | 4.89 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 901.1 | Cobalt-60 | | -0.0943 | 1.05 | 3.93 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Cobalt-60 | | 0.469 | 1.21 | 4.63 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.392 | 0.853 | 3.25 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.88 | 0.778 | 3.02 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | 901.1 | Cobalt-60 | | 0.24 | 0.685 | 2.56 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 900 | Gross alpha | | 1.74 | 0.686 | 1.71 | | pCi/L | | J | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 900 | Gross alpha | | 1.16 | 0.738 | 2.43 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 900 | Gross alpha | | 0.235 | 0.337 | 1.58 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 900 | Gross alpha | | -0.0377 | 0.577 | 2.86 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 900 | Gross alpha | | -0.599 | 0.63 | 2.58 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 900 | Gross alpha | | 0.566 | 0.468 | 1.63 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 900 | Gross alpha | | 0.214 | 0.294 | 1.15 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 900 | Gross alpha | | 0.748 | 0.37 | 1.24 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 900 | Gross alpha | | 1.14 | 0.611 | 2.32 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 900 | Gross alpha | | 1.25 | 0.425 | 1.1 | | pCi/L | | J, J- | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 900 | Gross beta | | 1.41 | 0.842 | 2.78 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 900 | Gross beta | | 2.64 | 0.718 | 2.18 | | pCi/L | | J | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 900 | Gross beta | | 1.27 | 0.631 | 2.37 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 900 | Gross beta | | 1.48 | 0.619 | 2.29 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 900 | Gross beta | | 3.7 | 0.985 | 2.78 | | pCi/L | | J | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 900 | Gross beta | | 1.7 | 0.917 | 2.98 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 900 | Gross beta | | 1.98 | 0.652 | 2.4 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 900 | Gross beta | | -0.777 | 0.516 | 2.17 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 900 | Gross beta | | 1.55 | 0.636 | 2.37 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 900 | Gross beta | | 1.78 | 0.475 | 1.47 | | pCi/L | | J | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 901.1 | Gross gamma | | 177 | 107 | 521 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 901.1 | Gross gamma | | 184 | 94.8 | 431 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 901.1 | Gross gamma | | 141 | 122 | 337 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 901.1 | Gross gamma | | 96.8 | 150 | 222 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 901.1 | Gross gamma | | 104 | 79.9 | 265 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Gross gamma | | 118 | 71.9 | 343 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 901.1 | Gross gamma | | 48.2 | 45.6 | 190 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 901.1 | Gross gamma | | 94.5 | 98.7 | 319 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Gross gamma | | 95.6 | 73.4 | 257 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 901.1 | Gross gamma | | 134 | 114 | 345 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 901.1 | Neptunium-237 | | 7.29 | 8.3 | 29.4 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 901.1 | Neptunium-237 | | 8.02 | 11 | 35.5 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 901.1 | Neptunium-237 | | 12.8 | 19.1 | 40 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 901.1 | Neptunium-237 | | 19.5 | 8.78 | 30.7 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 901.1 | Neptunium-237 | | 2.53 | 6.84 | 22.5 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Neptunium-237 | | -1.43 | 7.65 | 24.7 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 901.1 | Neptunium-237 | | -7.98 | 8.13 | 27.8 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 901.1 | Neptunium-237 | | -11.6 | 8.1 | 27.2 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Neptunium-237 | | 3.97 | 8.79 | 28.5 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 901.1 | Neptunium-237 | | 3.43 | 7.44 | 20.6 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | H300 | Plutonium-238 | | 0.00341 | 0.00242 | 0.0164 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | H300 | Plutonium-238 | | -0.00551 | 0.00551 | 0.0176 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | H300 | Plutonium-238 | | 0 | 0.00666 | 0.0185 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | H300 | Plutonium-238 | | -0.00181 | 0.00405 | 0.0174 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | H300 | Plutonium-238 | | 0.00254 | 0.00441 | 0.0244 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | H300 | Plutonium-238 | | 0 | 0.00342 | 0.0164 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | H300 | Plutonium-238 | | 0.00635 | 0.0193 | 0.0203 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | H300 | Plutonium-238 | | 0.00408 | 0.00289 | 0.0196 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | H300 | Plutonium-238 | | 0.00914 | 0.0055 | 0.0176 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | H300 | Plutonium-238 | | -0.00733 | 0.00934 | 0.022 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | H300 | Plutonium-238 | | -0.0178 | 0.0121 | 0.0411 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | H300 | Plutonium-238 | | -0.00452 | 0.00639 | 0.0469 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.00682 | 0.00483 | 0.0191 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.00184 | 0.00486 | 0.0205 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.0135 | 0.0084 | 0.0215 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00724 | 0.00445 | 0.0203 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00509 | 0.00623 | 0.0285 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00171 | 0.00296 | 0.0191 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00423 | 0.00423 | 0.0237 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00816 | 0.00578 | 0.0228 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00548 | 0.00409 | 0.0205 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.00915 | 0.0055 | 0.0241 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.00198 | 0.0095 | 0.0347 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.0384 | 0.0204 | 0.0396 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 901.1 | Potassium-40 | | 37.6 | 12.9 | 55.5 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 901.1 | Potassium-40 | | 50.2 | 15 | 64.7 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 901.1 | Potassium-40 | | 32 | 15.8 | 69.5 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 901.1 | Potassium-40 | | 20.1 | 12.8 | 55.8 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 901.1 | Potassium-40 | | 41.3 | 19 | 39.2 | | pCi/L | UI | R | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Potassium-40 | | 18 | 17.7 | 26.8 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 901.1 | Potassium-40 | | 52.8 | 14.9 | 66.1 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 901.1 | Potassium-40 | | 34.6 | 13.8 | 57.5 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Potassium-40 | | 18.4 | 15.1 | 55.2 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 901.1 | Potassium-40 | | 58.9 | 16.9 | 25.2 | | pCi/L | UI | R | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | 901.1 | Potassium-40 | | 13.8 | 18.2 | 22.5 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | 901.1 | Potassium-40 | | 6.5 | 14.1 | 27.9 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 901.1 | Sodium-22 | | -0.607 | 1.17 | 4.22 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 901.1 | Sodium-22 | | -0.843 | 1.03 | 3.56 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 901.1 | Sodium-22 | | -3.1 | 1.64 | 5.01 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 901.1 | Sodium-22 | | -1.22 | 0.962 | 3.14 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 901.1 | Sodium-22 | | 1.6 | 1.25 | 5.08 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Sodium-22 | | 2.07 | 1.12 | 4.07 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 901.1 | Sodium-22 | | 0.266 | 0.876 | 3.57 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 901.1 | Sodium-22 | | -0.596 | 0.971 | 3.48 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 901.1 | Sodium-22 | | 0.887 | 1.08 | 4.35 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 901.1 | Sodium-22 | | -0.0853 | 0.817 | 2.66 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | 901.1 | Sodium-22 | | -0.782 | 0.721 | 2.47 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | 901.1 | Sodium-22 | | -0.0965 | 0.776 | 2.79 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | 905.0 | Strontium-90 | | 0.243 | 0.112 | 0.348 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | 905.0 | Strontium-90 | | -0.0473 | 0.0502 | 0.218 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | 905.0 | Strontium-90 | | -0.00547 | 0.0842 | 0.417 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | 905.0 | Strontium-90 | | 0.5 | 0.101 | 0.323 | | pCi/L | | J | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | 905.0 | Strontium-90 | | 0.173 | 0.0978 | 0.318 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | 905.0 | Strontium-90 | | 0.111 | 0.116 | 0.407 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.117 | 0.0711 | 0.407 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | 905.0 | Strontium-90 | | 0.0957 | 0.0855 | 0.378 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | 905.0 | Strontium-90 | | 0.039 | 0.0767 | 0.361 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.0382 | 0.0696 | 0.298 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.0423 | 0.0985 | 0.481 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | 905.0 | Strontium-90 | | -0.0155 | 0.0753 | 0.374 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | LLEE | Tritium | | 9.35549 | 0.3193 | 0.28737 | | pCi/L | | | 2277 | UU061000G11R01 | UMTL |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | LLEE | Tritium | | 10.2176 | 0.3193 | 0.28737 | | pCi/L | | | 2277 | UU061000G11R90 | UMTL |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | LLEE | Tritium | | 11.1755 | 0.38316 | 0.28737 | | pCi/L | | | 2229 | UU060500G11R01 | UMTL |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | LLEE | Tritium | | 0.19158 | 0.28737 | 0.28737 | | pCi/L | | U | 2229 | UU060500G11R01-FB | UMTL |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | LLEE | Tritium | | 11.01585 | 0.35123 | 0.28737 | | pCi/L | | | 2229 | UU060500G11R90 | UMTL |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | LLEE | Tritium | | 8.17408 | 0.28737 | 0.28737 | | pCi/L | | | 2176 | UU06010G11R01 | UMTL |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | LLEE | Tritium | | 7.12039 | 0.28737 | 0.28737 | | pCi/L | | | 2140 | UU05110G11R01 | UMTL |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | LLEE | Tritium | | 7.05653 | 0.28737 | 0.28737 | | pCi/L | | | 2140 | UU05110G11R90 | UMTL |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | H300 | Uranium-234 | | 0.547 | 0.0465 | 0.0426 | | pCi/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | H300 | Uranium-234 | | 0.542 | 0.046 | 0.0411 | | pCi/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | H300 | Uranium-234 | | 0.626 | 0.0544 | 0.0501 | | pCi/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | H300 | Uranium-234 | | 0.674 | 0.0542 | 0.0436 | | pCi/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | H300 | Uranium-234 | | 0.557 | 0.0458 | 0.0452 | | pCi/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-234 | | 0.538 | 0.0442 | 0.046 | | pCi/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | H300 | Uranium-234 | | 0.619 | 0.0523 | 0.0451 | | pCi/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | H300 | Uranium-234 | | 0.0417 | 0.0113 | 0.0396 | | pCi/L | | J | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-234 | | 0.595 | 0.0478 | 0.0385 | | pCi/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | H300 | Uranium-234 | | 0.621 | 0.0527 | 0.0861 | | pCi/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | H300 | Uranium-234 | | 0.539 | 0.0421 | 0.074 | | pCi/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | H300 | Uranium-234 | | 0.557 | 0.0429 | 0.0745 | | pCi/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0101 | 0.00876 | 0.0359 | | pCi/L | U | U | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.0146 | 0.00849 | 0.0347 | | pCi/L | U | U | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | -0.0415 | 0.017 | 0.0422 | | pCi/L | U | U | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.00774 | 0.00776 | 0.0367 | | pCi/L | U | U | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0161 | 0.00932 | 0.0382 | | pCi/L | U | U | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.03 | 0.00994 | 0.0388 | | pCi/L | U | U | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0187 | 0.00894 | 0.0381 | | pCi/L | U | U | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | H300 | Uranium-235/Uranium-236 | | -0.0117 | 0.00706 | 0.0334 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.0137 | 0.00564 | 0.0325 | | pCi/L | U | U | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0234 | 0.0111 | 0.0418 | | pCi/L | U | U | 155408 | GU06010G11R01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.039 | 0.0109 | 0.0557 | | pCi/L | U | U | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.0302 | 0.00962 | 0.0561 | | pCi/L | U | U | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | | Rad | H300 | Uranium-238 | | 0.239 | 0.028 | 0.0453 | | pCi/L | | | 173943 | GF061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | F | CS | FD | Rad | H300 | Uranium-238 | | 0.227 | 0.0256 | 0.0437 | | pCi/L | | | 173943 | GF061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | | Rad | H300 | Uranium-238 | | 0.257 | 0.0315 | 0.0532 | | pCi/L | | | 166962 | GF060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | F | CS | FD | Rad | H300 | Uranium-238 | | 0.271 | 0.0289 | 0.0463 | | pCi/L | | | 166962 | GF060500G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Rad | H300 | Uranium-238 | | 0.247 | 0.0275 | 0.0481 | | pCi/L | | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-238 | | 0.227 | 0.0261 | 0.0489 | | pCi/L | | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Rad | H300 | Uranium-238 | | 0.247 | 0.0277 | 0.048 | | pCi/L | | | 166962 | GU060500G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Rad | H300 | Uranium-238 | | 0.0303 | 0.00906 | 0.0421 | | pCi/L | U | U | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-238 | | 0.31 | 0.0302 | 0.041 | | pCi/L | | | 166962 | GU060500G11R90 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Rad | H300 | Uranium-238 | | 0.276 | 0.0311 | 0.0483 | | pCi/L | | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Rad | H300 | Uranium-238 | | 0.211 | 0.0241 | 0.0524 | | pCi/L | | | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Rad | H300 | Uranium-238 | | 0.23 | 0.0258 | 0.0527 | | pCi/L | | | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | | Voa | 8260 | Acetone | | 1.99 | | | 1.25 | ug/L | J | | 173943 | GU061000G11R01 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FD | Voa | 8260 | Acetone | | 1.95 | | | 1.25 | ug/L | J | | 173943 | GU061000G11R90 | GELC |
| R-11 | 5531 | 855 | 10/10/2006 | WG | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 173943 | GU061000G11R01-FTB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | UJ | 166965 | GU060600G11R01 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | UJ | 166962 | GU060500G11R01-FB | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FD | Voa | 8260 | Acetone | < | 2.52 | | | 1.25 | ug/L | J | J, J+, U | 166965 | GU060600G11R90 | GELC |
| R-11 | 5531 | 855 | 7/10/2006 | WG | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 166966 | GU060600G11R01-FTB | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 155408 | GU06010G11R01 | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | EQB | Voa | 8260 | Acetone | | 9.95 | | | 1.25 | ug/L | | | 155408 | GU06010G11R01-EQB | GELC |
| R-11 | 5531 | 855 | 2/3/2006 | WG | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 155408 | GU06010G11R01-FTB | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | R | 149897 | GU05110G11R01 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | EQB | Voa | 8260 | Acetone | | 68.5 | | | 1.25 | ug/L | | J+ | 149897 | GU05110G11R01-EQB | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FB | Voa | 8260 | Acetone | < | 71 | | | 1.25 | ug/L | | J+, U | 149897 | GU05110G11R01-FB | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FD | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | R | 149897 | GU05110G11R90 | GELC |
| R-11 | 5531 | 855 | 11/8/2005 | WG | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | R | 149897 | GU05110G11R01-FTB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 2.25 | | | 0.725 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 1.28 | | | 0.725 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 1.41 | | | 0.725 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | < | 1.45 | | | 1.45 | mg/L | U | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 1.64 | | | 0.725 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 0.868 | | | 0.725 | mg/L | J | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 310.1 | Alkalinity-CO3 | < | 1.45 | | | 1.45 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 172 | | | 0.725 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 144 | | | 0.725 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 115 | | | 0.725 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 147 | | | 1.45 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 172 | | | 0.725 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 144 | | | 0.725 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 310.1 | Alkalinity-CO3+HCO3 | < | 1.45 | | | 1.45 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.093 | | | 0.01 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.058 | | | 0.01 | mg/L | | J- | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.079 | | | 0.01 | mg/L | | U | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | R | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.041 | | | 0.01 | mg/L | J | JN- | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.052 | | | 0.01 | mg/L | | J- | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.091 | | | 0.01 | mg/L | | U | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | R | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Bromide | | 0.312 | | | 0.066 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Bromide | | 0.233 | | | 0.066 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 300 | Bromide | | 0.621 | | | 0.041 | mg/L | | | 138373 | GF05060P12301 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Bromide | | 0.322 | | | 0.066 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Bromide | | 0.199 | | | 0.066 | mg/L | J | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 300 | Bromide | < | 0.041 | | | 0.041 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Calcium | | 25.2 | | | 0.036 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Calcium | | 24.3 | | | 0.036 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Calcium | | 20.7 | | | 0.036 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 6010 | Calcium | | 22.2 | | | 0.036 | mg/L | | J- | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Calcium | | 24.9 | | | 0.036 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Calcium | | 24.3 | | | 0.036 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Calcium | | 21.1 | | | 0.036 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Inorg | 6010 | Calcium | | 22.5 | | | 0.036 | mg/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 6010 | Calcium | < | 0.036 | | | 0.036 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Chloride | | 59.2 | | | 0.66 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Chloride | | 69.2 | | | 0.66 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 300 | Chloride | | 95.2 | | | 1.06 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Inorg | 300 | Chloride | | 69.2 | | | 0.322 | mg/L | | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Chloride | | 59.4 | | | 0.66 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Chloride | | 70.3 | | | 0.66 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 300 | Chloride | | 0.06 | | | 0.053 | mg/L | J | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 335.3 | Cyanide (Total) | | 0.00245 | | | 0.0015 | mg/L | J | JN- | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 335.3 | Cyanide (Total) | < | 0.0015 | | | 0.0015 | mg/L | U | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 9012 | Cyanide (Total) | < | 0.0025 | | | 0.0025 | mg/L | U | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 335.3 | Cyanide (Total) | < | 0.003 | | | 0.003 | mg/L | U | UJ | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 335.3 | Cyanide (Total) | < | 0.0015 | | | 0.0015 | mg/L | U | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 335.3 | Cyanide (Total) | | 0.00498 | | | 0.0015 | mg/L | J | JN- | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 9012 | Cyanide (Total) | | 0.00394 | | | 0.0025 | mg/L | J | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Fluoride | | 0.531 | | | 0.033 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Fluoride | | 0.508 | | | 0.033 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 300 | Fluoride | | 0.426 | | | 0.03 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Inorg | 300 | Fluoride | | 0.626 | | | 0.0553 | mg/L | | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Fluoride | | 0.52 | | | 0.033 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Fluoride | | 0.474 | | | 0.033 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 300 | Fluoride | < | 0.03 | | | 0.03 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 92.3 | | | 0.085 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 89.4 | | | 0.085 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 77.4 | | | 0.085 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | A2340 | Hardness | | 83.7 | | | 0.085 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 91.5 | | | 0.085 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 89.8 | | | 0.085 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 78.9 | | | 0.085 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Inorg | A2340 | Hardness | | 84 | | | 0.085 | mg/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | A2340 | Hardness | | 0.156 | | | 0.085 | mg/L | J | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Magnesium | | 7.15 | | | 0.085 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Magnesium | | 6.98 | | | 0.085 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Magnesium | | 6.21 | | | 0.085 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 6010 | Magnesium | | 6.88 | | | 0.085 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Magnesium | | 7.11 | | | 0.085 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Magnesium | | 7.06 | | | 0.085 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Magnesium | | 6.39 | | | 0.085 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Inorg | 6010 | Magnesium | | 6.76 | | | 0.085 | mg/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 6010 | Magnesium | < | 0.085 | | | 0.085 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 2.5 | | | 0.014 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.55 | | | 0.014 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 1.71 | | | 0.014 | mg/L | | | 163267 | GF060500P12301 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 2.62 | | | 0.003 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 775 | | | 2.8 | mg/L | | J | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | RE | | Inorg | 353.1 | Nitrate-Nitrite as N | | 956 | | | 7 | mg/L | H | J | 176956 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 3.65 | | | 0.014 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 1.6 | | | 0.014 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 353.1 | Nitrate-Nitrite as N | < | 0.003 | | | 0.003 | mg/L | U | R | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 6850 | Perchlorate | | 0.344 | | | 0.05 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 6850 | Perchlorate | | 0.902 | | | 0.05 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 6850 | Perchlorate | | 0.721 | | | 0.05 | ug/L | | J | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 150.1 | pH | | 8.05 | | | 0.01 | SU | H | J | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 150.1 | pH | | 7.91 | | | 0.01 | SU | H | J | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 150.1 | pH | | 7.73 | | | 0.01 | SU | H | J | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Inorg | 150.1 | pH | | 7.98 | | | | SU | H | J | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 150.1 | pH | | 8.05 | | | 0.01 | SU | H | J | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 150.1 | pH | | 7.81 | | | 0.01 | SU | H | J | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 150.1 | pH | | 5.33 | | | 0.01 | SU | H | J | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Potassium | | 9.95 | | | 0.05 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Potassium | | 12.1 | | | 0.05 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Potassium | | 13.9 | | | 0.05 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 6010 | Potassium | | 14.1 | | | 0.05 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Potassium | | 10.2 | | | 0.05 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Potassium | | 12.2 | | | 0.05 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Potassium | | 13.6 | | | 0.05 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Inorg | 6010 | Potassium | | 14.2 | | | 0.05 | mg/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 6010 | Potassium | < | 0.05 | | | 0.05 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Silicon Dioxide | | 108 | | | 0.16 | mg/L | | J | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Silicon Dioxide | | 107 | | | 0.16 | mg/L | | J- | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 6010 | Silicon Dioxide | | 76.6 | | | 0.032 | mg/L | | J+ | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Inorg | 200.7 | Silicon Dioxide | | 110 | | | 0.0243 | mg/L | | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 107 | | | 0.16 | mg/L | | J | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 109 | | | 0.16 | mg/L | | J- | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 82.2 | | | 0.032 | mg/L | | J+ | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 6010 | Silicon Dioxide | < | 0.25 | | | 0.032 | mg/L | | UJ | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | DUP | | Inorg | 200.7 | Silicon Dioxide | | 115 | | | 0.0122 | mg/L | | | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 6010 | Sodium | | 91.9 | | | 0.045 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 6010 | Sodium | | 91.3 | | | 0.045 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Sodium | | 87.3 | | | 0.045 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 6010 | Sodium | | 98.2 | | | 0.045 | mg/L | | J- | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 6010 | Sodium | | 90.3 | | | 0.045 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 6010 | Sodium | | 89.7 | | | 0.045 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Sodium | | 84.7 | | | 0.045 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Inorg | 6010 | Sodium | | 99 | | | 0.045 | mg/L | | J+ | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 6010 | Sodium | < | 0.0566 | | | 0.045 | mg/L | J | UJ | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 120.1 | Specific Conductance | | 624 | | | 1 | uS/cm | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 120.1 | Specific Conductance | | 627 | | | 1 | uS/cm | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 9050 | Specific Conductance | | 697 | | | 1 | uS/cm | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Inorg | 9050 | Specific Conductance | | 497 | | | 1 | uS/cm | | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 120.1 | Specific Conductance | | 625 | | | 1 | uS/cm | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 120.1 | Specific Conductance | | 632 | | | 1 | uS/cm | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 9050 | Specific Conductance | | 1.3 | | | 1 | uS/cm | | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 300 | Sulfate | | 19.4 | | | 0.1 | mg/L | | | 174497 | GF061000P12301 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 300 | Sulfate | | 13.7 | | | 0.1 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 300 | Sulfate | | 15.5 | | | 0.057 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Inorg | 300 | Sulfate | | 23.7 | | | 0.193 | mg/L | | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 300 | Sulfate | | 19.4 | | | 0.1 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 300 | Sulfate | | 13.7 | | | 0.1 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 300 | Sulfate | < | 0.057 | | | 0.057 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 4.4 | | | 2.28 | mg/L | J | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 29 | | | 2.85 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 43.1 | | | 0.713 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 68 | | | 5.7 | mg/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | RE | | Inorg | 160.2 | Suspended Sediment Concentration | | 75 | | | 5.7 | mg/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 160.2 | Suspended Sediment Concentration | < | 2.28 | | | 2.28 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 8/28/2002 | WS | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 13.8 | | | 0.402 | mg/L | | | 66398 | GU02081W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 432 | | | 2.38 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 438 | | | 2.38 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 443 | | | 2.38 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 450 | | | 2.38 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 479 | | | 2.38 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | FB | Inorg | 160.1 | Total Dissolved Solids | < | 2.38 | | | 2.38 | mg/L | U | UJ | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 456 | | | 3.07 | mg/L | | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.361 | | | 0.01 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.49 | | | 0.01 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.72 | | | 0.01 | mg/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.68 | | | 0.01 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | UJ | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.966 | | | 0.01 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.989 | | | 0.01 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 351.2 | Total Kjeldahl Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | UJ | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 4.65 | | | 0.33 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 5.64 | | | 0.33 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 5.4 | | | 0.33 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 2.18 | | | 0.01 | mg/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.52 | | | 0.01 | mg/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 4.06 | | | 0.1 | mg/L | | J | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 4.16 | | | 0.01 | mg/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 2.21 | | | 0.01 | mg/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.52 | | | 0.01 | mg/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.85 | | | 0.01 | mg/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Inorg | 365.4 | Total Phosphate as Phosphorus | < | 0.01 | | | 0.01 | mg/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Aluminum | | 100 | | | 68 | ug/L | J | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Aluminum | < | 68 | | | 68 | ug/L | U | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Aluminum | < | 68 | | | 68 | ug/L | U | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Aluminum | < | 68 | | | 68 | ug/L | UN* | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Aluminum | | 230 | | | 68 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Aluminum | | 947 | | | 68 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Aluminum | | 1050 | | | 68 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Aluminum | | 429 | | | 68 | ug/L | N* | J+ | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Aluminum | < | 68 | | | 68 | ug/L | UN* | UJ | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Barium | | 34.5 | | | 1 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Barium | | 30.7 | | | 1 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Barium | | 29.7 | | | 1 | ug/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Barium | | 23.2 | | | 1 | ug/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Barium | | 37.5 | | | 1 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Barium | | 43.4 | | | 1 | ug/L | | | 167148 | GU060600P12301 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Barium | | 48.1 | | | 1 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Barium | | 45.4 | | | 1 | ug/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Barium | < | 1 | | | 1 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Boron | | 70.1 | | | 10 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Boron | | 76.7 | | | 10 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Boron | | 78.6 | | | 10 | ug/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Met | 200.7 | Boron | | 74.6 | | | 1.39 | ug/L | E | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Boron | | 67.9 | | | 10 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Boron | | 76.4 | | | 10 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Boron | | 76.8 | | | 10 | ug/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Boron | < | 10 | | | 10 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | DUP | | Met | 200.7 | Boron | | 71.1 | | | 1.39 | ug/L | | | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6020 | Chromium | | 3.9 | | | 1 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6020 | Chromium | | 4.9 | | | 1 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Chromium | | 4.8 | | | 1 | ug/L | J | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Chromium | | 3.8 | | | 1 | ug/L | J* | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6020 | Chromium | | 9 | | | 1 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6020 | Chromium | | 10 | | | 1 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Chromium | | 31.9 | | | 1 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Chromium | | 12.2 | | | 1 | ug/L | * | J | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Chromium | < | 1 | | | 1 | ug/L | U* | UJ | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Copper | | 4.3 | | | 3 | ug/L | J | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Copper | | 3.2 | | | 3 | ug/L | J | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Copper | | 5.9 | | | 3 | ug/L | J | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Copper | | 4.6 | | | 3 | ug/L | J | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Copper | | 5.6 | | | 3 | ug/L | J | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Copper | | 10.9 | | | 3 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Copper | | 7.9 | | | 3 | ug/L | J | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Iron | | 236 | | | 18 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Iron | < | 173 | | | 18 | ug/L | | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Iron | | 200 | | | 18 | ug/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Iron | | 133 | | | 18 | ug/L | N* | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Iron | | 456 | | | 18 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Iron | | 917 | | | 18 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Iron | | 1190 | | | 18 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Iron | | 824 | | | 18 | ug/L | N* | J+ | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Iron | < | 18 | | | 18 | ug/L | UN* | UJ | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Manganese | | 49.5 | | | 2 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Manganese | | 55.8 | | | 2 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Manganese | | 51.9 | | | 2 | ug/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Manganese | | 74.5 | | | 2 | ug/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Manganese | | 53.9 | | | 2 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Manganese | | 91.6 | | | 2 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Manganese | | 127 | | | 2 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Manganese | | 197 | | | 2 | ug/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Manganese | < | 2 | | | 2 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Molybdenum | | 9.5 | | | 2 | ug/L | J | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Molybdenum | | 9 | | | 2 | ug/L | J | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Molybdenum | | 4.8 | | | 2 | ug/L | J | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Molybdenum | | 11.4 | | | 2 | ug/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Molybdenum | | 8.5 | | | 2 | ug/L | J | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Molybdenum | | 9 | | | 2 | ug/L | J | | 167148 | GU060600P12301 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Molybdenum | | 6.2 | | | 2 | ug/L | J | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Molybdenum | | 11.2 | | | 2 | ug/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Molybdenum | < | 2 | | | 2 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6020 | Nickel | | 1.7 | | | 0.5 | ug/L | J | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6020 | Nickel | | 1.9 | | | 0.5 | ug/L | J | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.8 | Nickel | | 1.6 | | | 0.5 | ug/L | J | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6020 | Nickel | | 1.9 | | | 0.5 | ug/L | J | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6020 | Nickel | | 1.7 | | | 0.5 | ug/L | J | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6020 | Nickel | | 2 | | | 0.5 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.8 | Nickel | | 1.8 | | | 0.5 | ug/L | J | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6020 | Nickel | | 2.8 | | | 0.5 | ug/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6020 | Nickel | < | 0.5 | | | 0.5 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6020 | Silver | < | 0.2 | | | 0.2 | ug/L | U | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6020 | Silver | < | 0.2 | | | 0.2 | ug/L | U | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.8 | Silver | < | 0.2 | | | 0.2 | ug/L | U | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6020 | Silver | < | 0.2 | | | 0.2 | ug/L | U | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6020 | Silver | | 0.28 | | | 0.2 | ug/L | J | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6020 | Silver | < | 0.2 | | | 0.2 | ug/L | U | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.8 | Silver | | 0.33 | | | 0.2 | ug/L | J | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6020 | Silver | | 1 | | | 0.2 | ug/L | J | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6020 | Silver | < | 0.2 | | | 0.2 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Strontium | | 124 | | | 1 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Strontium | | 87.6 | | | 1 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Strontium | | 90.5 | | | 1 | ug/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | F | CS | | Met | 200.7 | Strontium | | 73.2 | | | 0.238 | ug/L | | | 114589 | GF04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 123 | | | 1 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 88.8 | | | 1 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 123 | | | 1 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 88.8 | | | 1 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Strontium | | 94.8 | | | 1 | ug/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Strontium | < | 1 | | | 1 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | DUP | | Met | 200.7 | Strontium | | 73.4 | | | 0.238 | ug/L | | | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6020 | Uranium | | 0.76 | | | 0.05 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6020 | Uranium | | 0.43 | | | 0.05 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6020 | Uranium | | 0.24 | | | 0.05 | ug/L | | J- | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6020 | Uranium | | 0.74 | | | 0.05 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6020 | Uranium | | 0.48 | | | 0.05 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6020 | Uranium | | 0.38 | | | 0.05 | ug/L | | J- | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6020 | Uranium | < | 0.05 | | | 0.05 | ug/L | U | R | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Vanadium | | 15.6 | | | 1 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Vanadium | | 13.8 | | | 1 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Vanadium | | 13.5 | | | 1 | ug/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Vanadium | | 12.4 | | | 1 | ug/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Vanadium | | 15.2 | | | 1 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Vanadium | | 14.8 | | | 1 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Vanadium | | 15.6 | | | 1 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Vanadium | | 13.3 | | | 1 | ug/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Vanadium | < | 1 | | | 1 | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Met | 6010 | Zinc | | 18.6 | | | 2 | ug/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Met | 6010 | Zinc | | 28.3 | | | 2 | ug/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Zinc | | 48.7 | | | 2 | ug/L | | | 163267 | GF060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Met | 6010 | Zinc | | 52 | | | 2 | ug/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Met | 6010 | Zinc | | 22.7 | | | 2 | ug/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Met | 6010 | Zinc | | 46.5 | | | 2 | ug/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Zinc | | 77.3 | | | 2 | ug/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Met | 6010 | Zinc | | 97.8 | | | 2 | ug/L | | | 138373 | GU05060P12301 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Met | 6010 | Zinc | | 2.3 | | | 2 | ug/L | J | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Americium-241 | | -0.00979 | 0.00881 | 0.0266 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Americium-241 | | 0.0232 | 0.00706 | 0.0203 | | pCi/L | | J | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | H300 | Americium-241 | | -0.00233 | 0.00829 | 0.034 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | 0.00219 | 0.00341 | 0.0217 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | 0.012 | 0.00527 | 0.0199 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | 0.00232 | 0.00358 | 0.031 | | pCi/L | U | U | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | H300 | Americium-241 | | -0.00435 | 0.00724 | 0.036 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | H300 | Americium-241 | | 0.00357 | 0.00699 | 0.032 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Cesium-137 | | 0.865 | 1.07 | 3.99 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Cesium-137 | | 0.291 | 1.16 | 3.83 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 901.1 | Cesium-137 | | 0.071 | 0.762 | 2.76 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Cesium-137 | | -1.38 | 1.13 | 3.18 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Cesium-137 | | -0.743 | 0.931 | 3.32 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 901.1 | Cesium-137 | | -0.627 | 0.847 | 2.52 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 901.1 | Cesium-137 | | -1.01 | 0.623 | 2 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | 901.1 | Cesium-137 | | -1.44 | 0.889 | 2.97 | | pCi/L | U | U | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Cobalt-60 | | 0.285 | 0.998 | 3.89 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Cobalt-60 | | -2.32 | 1.29 | 3.6 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 901.1 | Cobalt-60 | | 1.36 | 0.899 | 3.53 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.962 | 0.889 | 3.89 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Cobalt-60 | | -1.52 | 0.995 | 3.13 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.496 | 0.84 | 3.11 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 901.1 | Cobalt-60 | | 0.463 | 0.546 | 2.52 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | 901.1 | Cobalt-60 | | -1.07 | 1.06 | 3.69 | | pCi/L | U | U | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 900 | Gross alpha | | 0.606 | 0.808 | 2.93 | | pCi/L | U | J-, U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 900 | Gross alpha | | -0.696 | 0.364 | 1.74 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 900 | Gross alpha | | 0.516 | 0.359 | 1.19 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 2.2 | 1.12 | 2.77 | | pCi/L | U | J-, U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 0.978 | 0.499 | 1.7 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 1.28 | 0.799 | 2.9 | | pCi/L | U | U | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 900 | Gross alpha | | 1.86 | 0.437 | 1.11 | | pCi/L | | J | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 900 | Gross alpha | | 0.13 | 0.282 | 1.09 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 900 | Gross beta | | 8.85 | 1.18 | 2.23 | | pCi/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 900 | Gross beta | | 9.47 | 1.17 | 2.57 | | pCi/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 900 | Gross beta | | 13.8 | 1.12 | 3.02 | | pCi/L | | | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 5.2 | 1.07 | 2.74 | | pCi/L | | J | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 8.72 | 1.17 | 2.85 | | pCi/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 17.6 | 1.93 | 5.24 | | pCi/L | | | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 900 | Gross beta | | 16.5 | 1.21 | 2.97 | | pCi/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 900 | Gross beta | | 0.00506 | 0.473 | 1.87 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Gross gamma | | 76.5 | 61.4 | 259 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Gross gamma | | 92 | 70.6 | 275 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 901.1 | Gross gamma | | 51.5 | 72.1 | 218 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Gross gamma | | 91.8 | 71.2 | 225 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Gross gamma | | 102 | 65.6 | 271 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 901.1 | Gross gamma | | 90.3 | 96.8 | 352 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 901.1 | Gross gamma | | 96.4 | 128 | 299 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | 901.1 | Gross gamma | | 343 | 300 | 572 | | pCi/L | U | U | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Neptunium-237 | | 25.4 | 2.81 | 27.5 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Neptunium-237 | | -1.84 | 7.57 | 24.6 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 901.1 | Neptunium-237 | | 1.96 | 6.37 | 11.3 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Neptunium-237 | | -3.4 | 8.42 | 26.7 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Neptunium-237 | | -2.77 | 6.77 | 22.2 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 901.1 | Neptunium-237 | | 17.5 | 8.3 | 19.9 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 901.1 | Neptunium-237 | | -5.72 | 5.01 | 16.3 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | 901.1 | Neptunium-237 | | 5.82 | 9.46 | 24 | | pCi/L | U | U | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Plutonium-238 | | -0.039 | 0.0203 | 0.0473 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Plutonium-238 | | 0.0244 | 0.0122 | 0.0293 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | H300 | Plutonium-238 | | -0.00312 | 0.0129 | 0.065 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | 0.000554 | 0.0123 | 0.0477 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | 0.00704 | 0.00525 | 0.0225 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | 0.0225 | 0.00977 | 0.0337 | | pCi/L | U | U | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | H300 | Plutonium-238 | | -0.00959 | 0.00588 | 0.05 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | H300 | Plutonium-238 | | -0.0138 | 0.00978 | 0.048 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.0152 | 0.0123 | 0.0553 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.0122 | 0.00612 | 0.0341 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.00312 | 0.00441 | 0.055 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.0072 | 0.0104 | 0.0558 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00234 | 0.00524 | 0.0262 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00281 | 0.00486 | 0.037 | | pCi/L | U | U | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00958 | 0.00758 | 0.042 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | H300 | Plutonium-239/Plutonium-240 | | 1.1E-09 | 0.00728 | 0.04 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Potassium-40 | | 27.4 | 18 | 32.7 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Potassium-40 | | 7.79 | 13.4 | 44.5 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 901.1 | Potassium-40 | | 36.5 | 10.1 | 41.8 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Potassium-40 | | 25.8 | 13.3 | 56 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Potassium-40 | | 20.1 | 16.3 | 34.9 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 901.1 | Potassium-40 | | 22.7 | 19.7 | 24.4 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 901.1 | Potassium-40 | | 6.98 | 15.2 | 21.1 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | 901.1 | Potassium-40 | | 25.1 | 11.4 | 47 | | pCi/L | U | U | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 901.1 | Sodium-22 | | 1.02 | 1.12 | 4.46 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 901.1 | Sodium-22 | | -1.31 | 1.19 | 3.64 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 901.1 | Sodium-22 | | 0.307 | 0.881 | 3.15 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 901.1 | Sodium-22 | | -1.03 | 0.821 | 2.82 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 901.1 | Sodium-22 | | -0.272 | 0.925 | 3.34 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 901.1 | Sodium-22 | | -0.223 | 0.71 | 2.56 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 901.1 | Sodium-22 | | 0.0506 | 0.637 | 2.35 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | 901.1 | Sodium-22 | | 0.854 | 0.928 | 3.71 | | pCi/L | U | U | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | 905.0 | Strontium-90 | | 0.00968 | 0.0842 | 0.306 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | 905.0 | Strontium-90 | | -0.291 | 0.0833 | 0.382 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | 905.0 | Strontium-90 | | -0.0905 | 0.071 | 0.291 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | 905.0 | Strontium-90 | | 0.276 | 0.0955 | 0.291 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.0744 | 0.0795 | 0.419 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.188 | 0.0642 | 0.277 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 905.0 | Strontium-90 | | -0.112 | 0.0495 | 0.208 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | GFPC | Strontium-90 | | 0.223 | 0.0607 | 0.156 | | pCi/L | | J | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | LLEE | Tritium | | 18.13624 | 0.60667 | 0.28737 | | pCi/L | | | 2279 | UU061000P12301 | UMTL |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | LLEE | Tritium | | 27.58752 | 0.92597 | 0.28737 | | pCi/L | | | 2230 | UU060600P12301 | UMTL |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | 906.0 | Tritium | | 121 | 60.5 | 197 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | 906.0 | Tritium | | 161 | 61.6 | 197 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Rad | 906.0 | Tritium | | -33 | 56.4 | 188 | | pCi/L | U | U | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Uranium-234 | | 0.412 | 0.0385 | 0.0445 | | pCi/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Uranium-234 | | 0.319 | 0.0324 | 0.0406 | | pCi/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | H300 | Uranium-234 | | 0.178 | 0.0273 | 0.105 | | pCi/L | | J | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.397 | 0.0386 | 0.0453 | | pCi/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.352 | 0.0367 | 0.0486 | | pCi/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.162 | 0.0279 | 0.107 | | pCi/L | | J | 163267 | GU060500P12301 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | H300 | Uranium-234 | | 0.237 | 0.0255 | 0.066 | | pCi/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | H300 | Uranium-234 | | 0.0102 | 0.00719 | 0.077 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0211 | 0.00756 | 0.0375 | | pCi/L | U | U | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0 | 0.00761 | 0.0343 | | pCi/L | U | U | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0275 | 0.011 | 0.064 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0107 | 0.012 | 0.0382 | | pCi/L | U | U | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0202 | 0.0104 | 0.041 | | pCi/L | U | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0 | 0.0102 | 0.052 | | pCi/L | U | U | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0283 | 0.00797 | 0.04 | | pCi/L | U | U | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | H300 | Uranium-235/Uranium-236 | | 0.00255 | 0.00569 | 0.047 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | F | CS | | Rad | H300 | Uranium-238 | | 0.222 | 0.026 | 0.0473 | | pCi/L | | | 174497 | GF061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | F | CS | | Rad | H300 | Uranium-238 | | 0.21 | 0.0242 | 0.0432 | | pCi/L | | | 167148 | GF060600P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | F | CS | | Rad | H300 | Uranium-238 | | 0.0721 | 0.0195 | 0.074 | | pCi/L | U | U | 138373 | GF05060P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | 0.269 | 0.03 | 0.0481 | | pCi/L | | | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | 0.317 | 0.0335 | 0.0517 | | pCi/L | | | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | 0.0943 | 0.0205 | 0.0602 | | pCi/L | | J | 163267 | GU060500P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Rad | H300 | Uranium-238 | | 0.148 | 0.0197 | 0.047 | | pCi/L | | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Rad | H300 | Uranium-238 | | 0.00508 | 0.00622 | 0.055 | | pCi/L | U | U | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | | Voa | 8260 | Acetone | | 1.7 | | | 1.25 | ug/L | J | J+ | 174497 | GU061000P12301 | GELC |
| Sandia below Wetlands | | | 10/18/2006 | WP | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 174497 | GU061000P12301-FTB | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | | Voa | 8260 | Acetone | < | 4.15 | | | 1.25 | ug/L | J | U | 167148 | GU060600P12301 | GELC |
| Sandia below Wetlands | | | 7/12/2006 | WP | UF | CS | FTB | Voa | 8260 | Acetone | | 1.79 | | | 1.25 | ug/L | J | J+ | 167148 | GU060600P12301-FTB | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | | Voa | 8260 | Acetone | < | 5 | | | | ug/L | U | | 138373 | GU05060P12301 | GELC |
| Sandia below Wetlands | | | 6/8/2005 | WS | UF | CS | FB | Voa | 8260 | Acetone | < | 5 | | | | ug/L | U | | 138373 | GU05060P12301-FB | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | | Voa | 624 | Acetone | < | 5 | | | | ug/L | U | | 114589 | GU04060W12301 | GELC |
| Sandia below Wetlands | | | 6/7/2004 | WS | UF | CS | FTB | Voa | 624 | Acetone | < | 5 | | | | ug/L | U | | 114589 | GU04060W12301-FTB | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 0.869 | | | 0.725 | mg/L | J | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | < | 0.725 | | | 0.725 | mg/L | U | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 132 | | | 0.725 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 171 | | | 0.725 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.056 | | | 0.01 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.152 | | | 0.01 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 300 | Bromide | | 0.215 | | | 0.066 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 300 | Bromide | | 0.409 | | | 0.066 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 6010 | Calcium | | 25 | | | 0.036 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 6010 | Calcium | | 30.7 | | | 0.036 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 300 | Chloride | | 91.3 | | | 0.66 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 300 | Chloride | | 76.6 | | | 0.66 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 335.3 | Cyanide (Total) | < | 0.0015 | | | 0.0015 | mg/L | U | UJ | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 335.3 | Cyanide (Total) | | 0.00246 | | | 0.0015 | mg/L | J | JN- | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 300 | Fluoride | | 0.456 | | | 0.033 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 300 | Fluoride | | 0.408 | | | 0.033 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | A2340 | Hardness | | 93.8 | | | 0.085 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | A2340 | Hardness | | 113 | | | 0.085 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 6010 | Magnesium | | 7.62 | | | 0.085 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 6010 | Magnesium | | 8.78 | | | 0.085 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 5.94 | | | 0.14 | mg/L | | J | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | < | 0.0345 | | | 0.014 | mg/L | J | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 6850 | Perchlorate | | 0.341 | | | 0.05 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 150.1 | pH | | 7.81 | | | 0.01 | SU | H | J | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 150.1 | pH | | 7.5 | | | 0.01 | SU | H | J | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 6010 | Potassium | | 11.1 | | | 0.05 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 6010 | Potassium | | 11.1 | | | 0.05 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 6010 | Silicon Dioxide | | 98.3 | | | 0.032 | mg/L | | J | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 106 | | | 0.032 | mg/L | | J | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 6010 | Sodium | | 99.1 | | | 0.225 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 6010 | Sodium | | 85.4 | | | 0.045 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 120.1 | Specific Conductance | | 655 | | | 1 | uS/cm | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 120.1 | Specific Conductance | | 613 | | | 1 | uS/cm | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 300 | Sulfate | | 17.3 | | | 0.1 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 300 | Sulfate | | 8.05 | | | 0.1 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 207 | | | 5.7 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 419 | | | 2.98 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 455 | | | 2.38 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.638 | | | 0.01 | mg/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 0.601 | | | 0.01 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 5.11 | | | 0.33 | mg/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 2.31 | | | 0.01 | mg/L | | J- | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 4.38 | | | 0.01 | mg/L | | J- | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Aluminum | | 97.3 | | | 68 | ug/L | J | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Aluminum | | 698 | | | 68 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Arsenic | | 8.7 | | | 6 | ug/L | J | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Arsenic | < | 6 | | | 6 | ug/L | U | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Barium | | 61.6 | | | 1 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Barium | | 87.9 | | | 1 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Boron | | 72.7 | | | 10 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Boron | | 49.6 | | | 10 | ug/L | J | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6020 | Chromium | < | 2.8 | | | 1 | ug/L | J | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6020 | Chromium | | 10.7 | | | 1 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Cobalt | | 3 | | | 1 | ug/L | J | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Cobalt | < | 1 | | | 1 | ug/L | U | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Copper | | 3.3 | | | 3 | ug/L | J | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Copper | | 3.7 | | | 3 | ug/L | J | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Iron | | 512 | | | 18 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Iron | | 3010 | | | 18 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6020 | Lead | | 1.2 | | | 0.5 | ug/L | J | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Manganese | | 514 | | | 2 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Manganese | | 1400 | | | 2 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 245.2 | Mercury | | 0.13 | | | 0.06 | ug/L | J | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 245.2 | Mercury | < | 0.06 | | | 0.06 | ug/L | U | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Molybdenum | | 52.7 | | | 2 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Molybdenum | | 7.7 | | | 2 | ug/L | J | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6020 | Nickel | | 1.8 | | | 0.5 | ug/L | JN | J- | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6020 | Nickel | | 2 | | | 0.5 | ug/L | JN | J- | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6020 | Silver | < | 0.2 | | | 0.2 | ug/L | U | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6020 | Silver | | 0.43 | | | 0.2 | ug/L | J | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Strontium | | 125 | | | 1 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Strontium | | 131 | | | 1 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6020 | Thallium | | 0.46 | | | 0.4 | ug/L | J | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6020 | Uranium | | 1.4 | | | 0.05 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6020 | Uranium | | 0.14 | | | 0.05 | ug/L | J | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Vanadium | | 16.7 | | | 1 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Vanadium | | 5.6 | | | 1 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Met | 6010 | Zinc | | 29.2 | | | 2 | ug/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Met | 6010 | Zinc | | 16 | | | 2 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Pest | 8082 | Aroclor-1260 | | 0.056 | | | 0.0333 | ug/L | J | J- | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | H300 | Americium-241 | | -0.0287 | 0.0159 | 0.03 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | H300 | Americium-241 | | -0.0048 | 0.00915 | 0.0296 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 901.1 | Cesium-137 | | 0.31 | 1.19 | 4.44 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 901.1 | Cesium-137 | | -1.38 | 1.26 | 3.15 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 901.1 | Cobalt-60 | | -0.558 | 1.04 | 3.86 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 901.1 | Cobalt-60 | | -0.168 | 1.18 | 3.82 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 900 | Gross alpha | | 2.61 | 1.04 | 2.5 | | pCi/L | | J | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 900 | Gross alpha | | 0.0513 | 0.762 | 3.19 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 900 | Gross beta | | 9.95 | 1.19 | 1.9 | | pCi/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 900 | Gross beta | | 7.58 | 1.02 | 2.09 | | pCi/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 901.1 | Gross gamma | | 108 | 107 | 366 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 901.1 | Gross gamma | | 85.2 | 61 | 278 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 901.1 | Neptunium-237 | | 2.08 | 9.98 | 33.8 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 901.1 | Neptunium-237 | | -5.11 | 9.49 | 25.4 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | H300 | Plutonium-238 | | 0 | 0.00172 | 0.0165 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | H300 | Plutonium-238 | | 0.00215 | 0.00481 | 0.0207 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 2.05E-10 | 0.00343 | 0.0192 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.0237 | 0.00891 | 0.0241 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 901.1 | Potassium-40 | | 18.9 | 12.4 | 5.84 | | pCi/L | UI | R | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 901.1 | Potassium-40 | | 52.2 | 22.3 | 31.2 | | pCi/L | UI | R | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 901.1 | Sodium-22 | | -0.945 | 1.14 | 4.13 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 901.1 | Sodium-22 | | -1.8 | 1.1 | 3.06 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | 905.0 | Strontium-90 | | 0.152 | 0.0401 | 0.117 | | pCi/L | | J | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | 905.0 | Strontium-90 | | 0.0236 | 0.0394 | 0.137 | | pCi/L | U | U | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | LLEE | Tritium | | 25.83137 | 0.86211 | 0.28737 | | pCi/L | | | 2279 | UU06100G1ACS01 | UMTL |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | H300 | Uranium-234 | | 0.841 | 0.0659 | 0.0473 | | pCi/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | H300 | Uranium-234 | | 1.12 | 0.0795 | 0.041 | | pCi/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0168 | 0.00799 | 0.0399 | | pCi/L | U | U | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0364 | 0.0108 | 0.0346 | | pCi/L | | J | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | F | CS | | Rad | H300 | Uranium-238 | | 0.385 | 0.0377 | 0.0503 | | pCi/L | | | 174354 | GF06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Rad | H300 | Uranium-238 | | 0.621 | 0.0502 | 0.0436 | | pCi/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Voa | 8260 | Acetone | | 3.8 | | | 1.25 | ug/L | J | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 174354 | GU06100G1ACS01-FTB | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | | Voa | 8260 | Toluene | | 3.97 | | | 0.25 | ug/L | | | 174354 | GU06100G1ACS01 | GELC |
| SCA-1 | 7981 | 2.1 | 10/16/2006 | WG | UF | CS | FTB | Voa | 8260 | Toluene | < | 1 | | | 0.25 | ug/L | U | | 174354 | GU06100G1ACS01-FTB | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 86 | | | 0.725 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 86 | | | 0.725 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 86.5 | | | 0.725 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 86.5 | | | 0.725 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | UJ | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.01 | | | 0.01 | mg/L | U | UJ | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.168 | | | 0.0125 | mg/L | | J, R | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 350.1 | Ammonia as Nitrogen | | 0.094 | | | 0.01 | mg/L | | J, R | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 300 | Bromide | | 0.179 | | | 0.066 | mg/L | J | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 300 | Bromide | | 0.156 | | | 0.066 | mg/L | J | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 300 | Bromide | | 0.181 | | | 0.066 | mg/L | J | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 300 | Bromide | | 0.144 | | | 0.066 | mg/L | J | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 6010 | Calcium | | 20.7 | | | 0.036 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 6010 | Calcium | | 20.4 | | | 0.036 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 6010 | Calcium | | 21 | | | 0.036 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 6010 | Calcium | | 21.2 | | | 0.036 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 300 | Chloride | | 25.7 | | | 0.132 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 300 | Chloride | | 25.4 | | | 0.132 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 300 | Chloride | | 25.2 | | | 0.132 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 300 | Chloride | | 24.8 | | | 0.132 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 300 | Fluoride | | 0.555 | | | 0.033 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 300 | Fluoride | | 0.556 | | | 0.033 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 300 | Fluoride | | 0.55 | | | 0.033 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 300 | Fluoride | | 0.556 | | | 0.033 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | A2340 | Hardness | | 71 | | | 0.085 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | A2340 | Hardness | | 70.4 | | | 0.085 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | A2340 | Hardness | | 75.2 | | | 0.085 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | A2340 | Hardness | | 76.7 | | | 0.085 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 6010 | Magnesium | | 4.72 | | | 0.085 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 6010 | Magnesium | | 4.7 | | | 0.085 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 6010 | Magnesium | | 5.56 | | | 0.085 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 6010 | Magnesium | | 5.76 | | | 0.085 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.273 | | | 0.014 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.263 | | | 0.014 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.289 | | | 0.014 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.249 | | | 0.014 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 6850 | Perchlorate | | 0.378 | | | 0.05 | ug/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 6850 | Perchlorate | | 0.368 | | | 0.05 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 150.1 | pH | | 6.81 | | | 0.01 | SU | H | J | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 150.1 | pH | | 6.86 | | | 0.01 | SU | H | J | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 150.1 | pH | | 6.88 | | | 0.01 | SU | H | J | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 150.1 | pH | | 6.89 | | | 0.01 | SU | H | J | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 6010 | Potassium | | 2.64 | | | 0.05 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 6010 | Potassium | | 2.65 | | | 0.05 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 6010 | Potassium | | 3.75 | | | 0.05 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 6010 | Potassium | | 3.92 | | | 0.05 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 6010 | Silicon Dioxide | | 74.1 | | | 0.032 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 6010 | Silicon Dioxide | | 73.6 | | | 0.032 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 105 | | | 0.16 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 6010 | Silicon Dioxide | | 103 | | | 0.16 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 6010 | Sodium | | 35.8 | | | 0.045 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 6010 | Sodium | | 35.1 | | | 0.045 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 6010 | Sodium | | 35.2 | | | 0.045 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 6010 | Sodium | | 35.5 | | | 0.045 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 120.1 | Specific Conductance | | 283 | | | 1 | uS/cm | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 120.1 | Specific Conductance | | 289 | | | 1 | uS/cm | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 120.1 | Specific Conductance | | 291 | | | 1 | uS/cm | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 120.1 | Specific Conductance | | 287 | | | 1 | uS/cm | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 300 | Sulfate | | 14.5 | | | 0.1 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 300 | Sulfate | | 14.4 | | | 0.1 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 300 | Sulfate | | 14.6 | | | 0.1 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 300 | Sulfate | | 13.8 | | | 0.1 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 74.4 | | | 2.28 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 160.2 | Suspended Sediment Concentration | | 50.8 | | | 2.28 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 221 | | | 2.38 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 298 | | | 2.38 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 223 | | | 2.38 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 275 | | | 2.38 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 1.52 | | | 0.33 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 9060 | Total Organic Carbon | | 1.57 | | | 0.33 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.37 | | | 0.01 | mg/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.366 | | | 0.01 | mg/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.428 | | | 0.01 | mg/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.413 | | | 0.01 | mg/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Aluminum | | 399 | | | 68 | ug/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Aluminum | | 607 | | | 68 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Aluminum | | 11700 | | | 68 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Aluminum | | 13300 | | | 68 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Barium | | 71.4 | | | 1 | ug/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Barium | | 70.6 | | | 1 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Barium | | 119 | | | 1 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Barium | | 123 | | | 1 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Beryllium | < | 1 | | | 1 | ug/L | U | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Beryllium | < | 1 | | | 1 | ug/L | U | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Beryllium | | 1.1 | | | 1 | ug/L | J | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Beryllium | | 1.1 | | | 1 | ug/L | J | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Boron | | 47.2 | | | 10 | ug/L | J | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Boron | | 45 | | | 10 | ug/L | J | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Boron | | 47.7 | | | 10 | ug/L | J | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Boron | | 47.9 | | | 10 | ug/L | J | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6020 | Cadmium | < | 0.1 | | | 0.1 | ug/L | U | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6020 | Cadmium | < | 0.1 | | | 0.1 | ug/L | U | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6020 | Cadmium | | 0.28 | | | 0.1 | ug/L | J | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6020 | Cadmium | | 0.23 | | | 0.1 | ug/L | J | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6020 | Chromium | | 9.2 | | | 1 | ug/L | | J+ | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6020 | Chromium | | 10.2 | | | 1 | ug/L | | J+ | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6020 | Chromium | | 13.9 | | | 1 | ug/L | | J+ | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6020 | Chromium | | 13 | | | 1 | ug/L | | J+ | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Iron | | 158 | | | 18 | ug/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Iron | | 243 | | | 18 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Iron | | 4780 | | | 18 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Iron | | 5490 | | | 18 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6020 | Lead | | 6 | | | 0.5 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6020 | Lead | | 6 | | | 0.5 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Manganese | | 33.2 | | | 2 | ug/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Manganese | | 42.5 | | | 2 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Manganese | | 115 | | | 2 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Manganese | | 124 | | | 2 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6020 | Nickel | | 1.5 | | | 0.5 | ug/L | J | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6020 | Nickel | | 2.2 | | | 0.5 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6020 | Nickel | | 4 | | | 0.5 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6020 | Nickel | | 3.7 | | | 0.5 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Strontium | | 123 | | | 1 | ug/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Strontium | | 121 | | | 1 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Strontium | | 127 | | | 1 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Strontium | | 129 | | | 1 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6020 | Thallium | | 0.99 | | | 0.4 | ug/L | J | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6020 | Thallium | < | 0.4 | | | 0.4 | ug/L | U | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6020 | Uranium | | 0.38 | | | 0.05 | ug/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6020 | Uranium | | 0.4 | | | 0.05 | ug/L | | | 173983 | GF06100G5ACS90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6020 | Uranium | | 1.1 | | | 0.05 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6020 | Uranium | | 1.2 | | | 0.05 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Vanadium | < | 7.2 | | | 1 | ug/L | | J+, U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Vanadium | < | 6.7 | | | 1 | ug/L | | J+, U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Vanadium | | 13 | | | 1 | ug/L | | J+ | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Vanadium | | 13.3 | | | 1 | ug/L | | J+ | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Met | 6010 | Zinc | < | 7.2 | | | 2 | ug/L | J | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Met | 6010 | Zinc | < | 8.2 | | | 2 | ug/L | J | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Met | 6010 | Zinc | | 27.8 | | | 2 | ug/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Met | 6010 | Zinc | | 31.3 | | | 2 | ug/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | H300 | Americium-241 | | -0.0126 | 0.00444 | 0.0289 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | H300 | Americium-241 | | -0.00181 | 0.0019 | 0.0211 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | H300 | Americium-241 | | 0.0128 | 0.007 | 0.0253 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | H300 | Americium-241 | | 0.0048 | 0.00487 | 0.0276 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 901.1 | Cesium-137 | | -0.776 | 1.08 | 3.8 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 901.1 | Cesium-137 | | 0.195 | 1.04 | 3.44 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 901.1 | Cesium-137 | | 0.441 | 1.29 | 4.79 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 901.1 | Cesium-137 | | -0.478 | 1.1 | 3.89 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 901.1 | Cobalt-60 | | 1.11 | 0.927 | 4.14 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 901.1 | Cobalt-60 | | -1.67 | 1.37 | 3.73 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.623 | 1.19 | 4.82 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 901.1 | Cobalt-60 | | -0.408 | 1.24 | 4.56 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 900 | Gross alpha | | -0.0855 | 0.412 | 2.04 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 900 | Gross alpha | | 0.38 | 0.575 | 2.19 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 900 | Gross alpha | | 1.77 | 0.788 | 2.02 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 900 | Gross alpha | | 5.47 | 1.27 | 2.17 | | pCi/L | | J | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 900 | Gross beta | | 3.22 | 0.85 | 2.68 | | pCi/L | | J | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 900 | Gross beta | | 2.57 | 0.777 | 2.41 | | pCi/L | | J | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 900 | Gross beta | | 3.21 | 0.819 | 2.44 | | pCi/L | | J | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 900 | Gross beta | | 7.5 | 1.07 | 2.98 | | pCi/L | | J | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 901.1 | Gross gamma | | 93.8 | 69.8 | 254 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 901.1 | Gross gamma | | 121 | 101 | 343 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 901.1 | Gross gamma | | 126 | 87.3 | 451 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 901.1 | Gross gamma | | 70.8 | 107 | 210 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 901.1 | Neptunium-237 | | 11.2 | 7.97 | 29.4 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 901.1 | Neptunium-237 | | -8.53 | 10.2 | 31.7 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 901.1 | Neptunium-237 | | 25.4 | 12.9 | 35 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 901.1 | Neptunium-237 | | 6.46 | 7.28 | 26.8 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | H300 | Plutonium-238 | | -0.00654 | 0.00464 | 0.0157 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | H300 | Plutonium-238 | | -0.0112 | 0.00424 | 0.0153 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | H300 | Plutonium-238 | | -0.00975 | 0.00462 | 0.0156 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | H300 | Plutonium-238 | | -0.00496 | 0.00287 | 0.0159 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.0114 | 0.00635 | 0.0183 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00159 | 0.00276 | 0.0178 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.00975 | 0.00515 | 0.0182 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00165 | 0.00286 | 0.0185 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 901.1 | Potassium-40 | | 3.16 | 18.6 | 41.8 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 901.1 | Potassium-40 | | 27.3 | 18.5 | 34.9 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 901.1 | Potassium-40 | | 45.2 | 25 | 53.6 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 901.1 | Potassium-40 | | 4.28 | 17.8 | 32.6 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 901.1 | Sodium-22 | | 0.345 | 1.21 | 4.77 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 901.1 | Sodium-22 | | -0.667 | 1.14 | 4.12 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 901.1 | Sodium-22 | | 1.45 | 1.23 | 5.15 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 901.1 | Sodium-22 | | 2.26 | 1.09 | 4.84 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | 905.0 | Strontium-90 | | 0.217 | 0.115 | 0.369 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | 905.0 | Strontium-90 | | 0.0686 | 0.0672 | 0.235 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.0215 | 0.113 | 0.437 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | 905.0 | Strontium-90 | | -0.0801 | 0.0986 | 0.424 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | H300 | Uranium-234 | | 0.149 | 0.0234 | 0.047 | | pCi/L | | | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | H300 | Uranium-234 | | 0.152 | 0.0189 | 0.0405 | | pCi/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | H300 | Uranium-234 | | 0.292 | 0.0311 | 0.0492 | | pCi/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-234 | | 0.293 | 0.0295 | 0.0427 | | pCi/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0112 | 0.0112 | 0.0397 | | pCi/L | U | U | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.0144 | 0.00683 | 0.0342 | | pCi/L | U | U | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0233 | 0.0093 | 0.0415 | | pCi/L | U | U | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.0228 | 0.00846 | 0.036 | | pCi/L | U | U | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | | Rad | H300 | Uranium-238 | | 0.117 | 0.0215 | 0.05 | | pCi/L | | J | 173983 | GF06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | F | CS | FD | Rad | H300 | Uranium-238 | | 0.152 | 0.0189 | 0.0431 | | pCi/L | | | 173983 | GF06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Rad | H300 | Uranium-238 | | 0.283 | 0.03 | 0.0523 | | pCi/L | | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Rad | H300 | Uranium-238 | | 0.317 | 0.03 | 0.0454 | | pCi/L | | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 173983 | GU06100G5ACS01 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FD | Voa | 8260 | Acetone | | 2.3 | | | 1.25 | ug/L | J | | 173983 | GU06100G5ACS90 | GELC |
| SCA-5 | 8021 | 65.2 | 10/11/2006 | WG | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 173983 | GU06100G5ACS01-FTB | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 10.2 | | | 0.725 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 4.62 | | | 0.725 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3 | | 4.18 | | | 0.725 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 5.08 | | | 0.725 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 10.9 | | | 0.725 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3 | | 4.15 | | | 0.725 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 310.1 | Alkalinity-CO3 | | 3.27 | | | 0.725 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 222 | | | 0.725 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 157 | | | 0.725 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 158 | | | 0.725 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 147 | | | 0.725 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 249 | | | 0.725 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 157 | | | 0.725 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 310.1 | Alkalinity-CO3+HCO3 | | 159 | | | 0.725 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.241 | | | 0.01 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.309 | | | 0.01 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 350.1 | Ammonia as Nitrogen | | 0.288 | | | 0.01 | mg/L | | | 166359 | GF060600PSFS90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.085 | | | 0.01 | mg/L | | U | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.104 | | | 0.01 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | | 0.281 | | | 0.01 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 350.1 | Ammonia as Nitrogen | | 0.283 | | | 0.01 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 350.1 | Ammonia as Nitrogen | < | 0.082 | | | 0.01 | mg/L | | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 300 | Bromide | | 1.28 | | | 0.066 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 300 | Bromide | | 5.19 | | | 0.132 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 300 | Bromide | | 5.11 | | | 0.132 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 300 | Bromide | | 1.58 | | | 0.066 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 300 | Bromide | | 5.12 | | | 0.132 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 300 | Bromide | | 5.02 | | | 0.132 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 6010 | Calcium | | 43.1 | | | 0.036 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 6010 | Calcium | | 30.8 | | | 0.036 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 6010 | Calcium | | 29.9 | | | 0.036 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Calcium | | 29 | | | 0.036 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 6010 | Calcium | | 47.7 | | | 0.036 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 6010 | Calcium | | 30.3 | | | 0.036 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 6010 | Calcium | | 29.7 | | | 0.036 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Calcium | | 30.2 | | | 0.036 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 300 | Chloride | | 21.9 | | | 0.132 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 300 | Chloride | | 15.1 | | | 0.066 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 300 | Chloride | | 15.2 | | | 0.066 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 300 | Chloride | | 24.7 | | | 0.132 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 300 | Chloride | | 15.3 | | | 0.066 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 300 | Chloride | | 15 | | | 0.066 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 335.3 | Cyanide (Total) | | 0.00316 | | | 0.0015 | mg/L | J | JN- | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 335.3 | Cyanide (Total) | | 0.0022 | | | 0.0015 | mg/L | J | JN- | 166359 | GF060600PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 335.3 | Cyanide (Total) | | 0.00473 | | | 0.0015 | mg/L | J | JN- | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 335.3 | Cyanide (Total) | | 0.00185 | | | 0.0015 | mg/L | J | JN- | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 335.3 | Cyanide (Total) | | 0.00602 | | | 0.0015 | mg/L | | JN- | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 335.3 | Cyanide (Total) | | 0.00227 | | | 0.0015 | mg/L | J | JN- | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 335.3 | Cyanide (Total) | < | 0.0015 | | | 0.0015 | mg/L | U | UJ | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 300 | Fluoride | | 0.753 | | | 0.033 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 300 | Fluoride | | 0.631 | | | 0.033 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 300 | Fluoride | | 0.612 | | | 0.033 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 300 | Fluoride | | 0.857 | | | 0.033 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 300 | Fluoride | | 0.622 | | | 0.033 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 300 | Fluoride | | 0.63 | | | 0.033 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 162 | | | 0.085 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 117 | | | 0.085 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | A2340 | Hardness | | 114 | | | 0.085 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | A2340 | Hardness | | 110 | | | 0.085 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 181 | | | 0.085 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 115 | | | 0.085 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | A2340 | Hardness | | 113 | | | 0.085 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | A2340 | Hardness | | 115 | | | 0.085 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 6010 | Magnesium | | 13.3 | | | 0.085 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 6010 | Magnesium | | 9.84 | | | 0.085 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 6010 | Magnesium | | 9.56 | | | 0.085 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Magnesium | | 9.16 | | | 0.085 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 6010 | Magnesium | | 14.9 | | | 0.085 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 6010 | Magnesium | | 9.7 | | | 0.085 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 6010 | Magnesium | | 9.46 | | | 0.085 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Magnesium | | 9.65 | | | 0.085 | mg/L | | | 163267 | GU060500PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 770 | | | 2.8 | mg/L | | J | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | RE | | Inorg | 353.1 | Nitrate-Nitrite as N | | 1030 | | | 7 | mg/L | H | J | 176956 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.978 | | | 0.014 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.92 | | | 0.014 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.664 | | | 0.014 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.985 | | | 0.014 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.857 | | | 0.014 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.874 | | | 0.014 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 353.1 | Nitrate-Nitrite as N | | 0.596 | | | 0.014 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 6850 | Perchlorate | | 0.788 | | | 0.1 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 314.0 | Perchlorate | | 6.36 | | | 4 | ug/L | J | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 6850 | Perchlorate | | 0.702 | | | 0.05 | ug/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 314.0 | Perchlorate | < | 4 | | | 4 | ug/L | U | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 6850 | Perchlorate | | 0.684 | | | 0.05 | ug/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 150.1 | pH | | 8.84 | | | 0.01 | SU | H | J | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 150.1 | pH | | 8.45 | | | 0.01 | SU | H | J | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 150.1 | pH | | 8.42 | | | 0.01 | SU | H | J | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 150.1 | pH | | 8.82 | | | 0.01 | SU | H | J | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 150.1 | pH | | 8.41 | | | 0.01 | SU | H | J | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 150.1 | pH | | 8.37 | | | 0.01 | SU | H | J | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 6010 | Potassium | | 8.76 | | | 0.05 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 6010 | Potassium | | 9.64 | | | 0.05 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 6010 | Potassium | | 9.38 | | | 0.05 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Potassium | | 14.1 | | | 0.05 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 6010 | Potassium | | 8.98 | | | 0.05 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 6010 | Potassium | | 9.48 | | | 0.05 | mg/L | | | 166359 | GU060600PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 6010 | Potassium | | 10.9 | | | 1 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Potassium | | 14.3 | | | 0.05 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 6010 | Silicon Dioxide | | 153 | | | 0.16 | mg/L | | J | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 6010 | Silicon Dioxide | | 165 | | | 0.16 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 6010 | Silicon Dioxide | | 161 | | | 0.16 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 180 | | | 0.16 | mg/L | | J | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 6010 | Silicon Dioxide | | 164 | | | 0.16 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 6010 | Silicon Dioxide | | 164 | | | 0.64 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 6010 | Sodium | | 55 | | | 0.045 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 6010 | Sodium | | 35 | | | 0.045 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 6010 | Sodium | | 34.1 | | | 0.045 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 200.7 | Sodium | | 41.4 | | | 0.045 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 6010 | Sodium | | 61.8 | | | 0.045 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 6010 | Sodium | | 34.4 | | | 0.045 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 6010 | Sodium | | 1080 | | | 0.9 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 200.7 | Sodium | | 42.3 | | | 0.045 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 120.1 | Specific Conductance | | 528 | | | 1 | uS/cm | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 120.1 | Specific Conductance | | 395 | | | 1 | uS/cm | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 120.1 | Specific Conductance | | 398 | | | 1 | uS/cm | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 120.1 | Specific Conductance | | 581 | | | 1 | uS/cm | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 120.1 | Specific Conductance | | 402 | | | 1 | uS/cm | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 120.1 | Specific Conductance | | 399 | | | 1 | uS/cm | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 300 | Sulfate | | 13.7 | | | 0.1 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 300 | Sulfate | | 16.9 | | | 0.1 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 300 | Sulfate | | 17 | | | 0.1 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 300 | Sulfate | | 16.2 | | | 0.1 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 300 | Sulfate | | 17 | | | 0.1 | mg/L | | | 166359 | GU060600PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 300 | Sulfate | | 16.9 | | | 0.1 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 3.5 | | | 2.85 | mg/L | J | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 2.8 | | | 2.28 | mg/L | J | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 160.2 | Suspended Sediment Concentration | | 1.75 | | | 1.43 | mg/L | J | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 160.2 | Suspended Sediment Concentration | | 7.63 | | | 0.713 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 463 | | | 2.38 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 503 | | | 2.38 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 395 | | | 2.38 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 160.1 | Total Dissolved Solids | | 398 | | | 2.38 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 390 | | | 2.38 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 160.1 | Total Dissolved Solids | | 401 | | | 2.38 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.32 | | | 0.01 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.82 | | | 0.01 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.84 | | | 0.01 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.84 | | | 0.01 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.13 | | | 0.01 | mg/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.12 | | | 0.01 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.88 | | | 0.01 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.84 | | | 0.01 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 351.2 | Total Kjeldahl Nitrogen | | 1.02 | | | 0.01 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 15.1 | | | 0.33 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 6.91 | | | 0.33 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 9060 | Total Organic Carbon | | 6.79 | | | 0.33 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 9060 | Total Organic Carbon | | 13.2 | | | 0.33 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 2.9 | | | 0.01 | mg/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.783 | | | 0.01 | mg/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.79 | | | 0.01 | mg/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.4 | | | 0.01 | mg/L | | | 163267 | GF060500PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.58 | | | 0.01 | mg/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.795 | | | 0.01 | mg/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Inorg | 365.4 | Total Phosphate as Phosphorus | | 0.816 | | | 0.01 | mg/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Inorg | 365.4 | Total Phosphate as Phosphorus | | 3.61 | | | 0.01 | mg/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Aluminum | | 93.7 | | | 68 | ug/L | J | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Aluminum | < | 68 | | | 68 | ug/L | U | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Aluminum | < | 68 | | | 68 | ug/L | U | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Aluminum | | 148 | | | 68 | ug/L | J | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Aluminum | | 190 | | | 68 | ug/L | J | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Aluminum | | 125 | | | 68 | ug/L | J | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Aluminum | | 177 | | | 68 | ug/L | J | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Aluminum | | 241 | | | 68 | ug/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Arsenic | < | 6 | | | 6 | ug/L | U | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Arsenic | < | 6 | | | 6 | ug/L | U | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Arsenic | < | 6 | | | 6 | ug/L | U | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Arsenic | < | 6 | | | 6 | ug/L | U | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Arsenic | | 6.5 | | | 6 | ug/L | J | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Arsenic | < | 6 | | | 6 | ug/L | U | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Arsenic | < | 6 | | | 6 | ug/L | U | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Arsenic | < | 6 | | | 6 | ug/L | U | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Barium | | 94.7 | | | 1 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Barium | | 72.5 | | | 1 | ug/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Barium | | 70.5 | | | 1 | ug/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Barium | | 76.9 | | | 1 | ug/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Barium | | 109 | | | 1 | ug/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Barium | | 71.8 | | | 1 | ug/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Barium | | 70.7 | | | 1 | ug/L | | | 166359 | GU060600PSFS90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Barium | | 80.5 | | | 1 | ug/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Boron | | 93.2 | | | 10 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Boron | | 53.9 | | | 10 | ug/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Boron | | 53.3 | | | 10 | ug/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Boron | | 106 | | | 10 | ug/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Boron | | 53.5 | | | 10 | ug/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Boron | | 67.7 | | | 10 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6020 | Chromium | | 7.8 | | | 1 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6020 | Chromium | | 8.2 | | | 1 | ug/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6020 | Chromium | | 9.7 | | | 1 | ug/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Chromium | | 11.4 | | | 1 | ug/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6020 | Chromium | | 9 | | | 1 | ug/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6020 | Chromium | | 8.7 | | | 1 | ug/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6020 | Chromium | | 7.9 | | | 1 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Chromium | | 11.5 | | | 1 | ug/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Copper | | 3 | | | 3 | ug/L | J | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Copper | | 3 | | | 3 | ug/L | J | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Copper | < | 3 | | | 3 | ug/L | U | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Copper | | 3 | | | 3 | ug/L | J | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Copper | | 4 | | | 3 | ug/L | J | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Iron | | 74 | | | 18 | ug/L | J | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Iron | | 33.7 | | | 18 | ug/L | J | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Iron | | 29.8 | | | 18 | ug/L | J | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Iron | | 95.8 | | | 18 | ug/L | J | | 163267 | GF060500PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Iron | | 130 | | | 18 | ug/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Iron | | 97.7 | | | 18 | ug/L | J | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Iron | | 221 | | | 18 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Iron | | 163 | | | 18 | ug/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | UJ | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.8 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6020 | Lead | | 0.61 | | | 0.5 | ug/L | J | JN- | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6020 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.8 | Lead | < | 0.5 | | | 0.5 | ug/L | U | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Manganese | | 5.2 | | | 2 | ug/L | J | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Manganese | | 9.8 | | | 2 | ug/L | J | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Manganese | | 8.9 | | | 2 | ug/L | J | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Manganese | | 6.4 | | | 2 | ug/L | J | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Manganese | | 9.7 | | | 2 | ug/L | J | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Manganese | | 11.4 | | | 2 | ug/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Manganese | | 11.6 | | | 2 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Manganese | | 8.9 | | | 2 | ug/L | J | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Molybdenum | | 3.3 | | | 2 | ug/L | J | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Molybdenum | | 2.8 | | | 2 | ug/L | J | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Molybdenum | | 3.2 | | | 2 | ug/L | J | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Molybdenum | | 2.5 | | | 2 | ug/L | J | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Molybdenum | | 3.8 | | | 2 | ug/L | J | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Molybdenum | | 3 | | | 2 | ug/L | J | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Molybdenum | | 3.7 | | | 2 | ug/L | J | | 166359 | GU060600PSFS90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Molybdenum | | 3 | | | 2 | ug/L | J | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6020 | Nickel | | 1.2 | | | 0.5 | ug/L | J | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6020 | Nickel | | 0.92 | | | 0.5 | ug/L | J | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6020 | Nickel | | 0.56 | | | 0.5 | ug/L | J | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.8 | Nickel | | 0.71 | | | 0.5 | ug/L | J | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6020 | Nickel | | 1.3 | | | 0.5 | ug/L | J | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6020 | Nickel | | 0.8 | | | 0.5 | ug/L | J | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6020 | Nickel | | 4.5 | | | 0.5 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.8 | Nickel | | 0.69 | | | 0.5 | ug/L | J | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Strontium | | 216 | | | 1 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Strontium | | 143 | | | 1 | ug/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Strontium | | 139 | | | 1 | ug/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 245 | | | 1 | ug/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Strontium | | 141 | | | 1 | ug/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Strontium | | 138 | | | 1 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6020 | Uranium | | 1.3 | | | 0.05 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6020 | Uranium | | 1 | | | 0.05 | ug/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6020 | Uranium | | 0.95 | | | 0.05 | ug/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6020 | Uranium | | 1.5 | | | 0.05 | ug/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6020 | Uranium | | 1 | | | 0.05 | ug/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6020 | Uranium | | 0.99 | | | 0.05 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Vanadium | | 36.6 | | | 1 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Vanadium | | 21.9 | | | 1 | ug/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Vanadium | | 21 | | | 1 | ug/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Vanadium | | 26.9 | | | 1 | ug/L | | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Vanadium | | 43.1 | | | 1 | ug/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Vanadium | | 21.6 | | | 1 | ug/L | | | 166359 | GU060600PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Vanadium | | 21.6 | | | 1 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Vanadium | | 28.9 | | | 1 | ug/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Met | 6010 | Zinc | | 17.7 | | | 2 | ug/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Met | 6010 | Zinc | < | 7.5 | | | 2 | ug/L | J | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Met | 6010 | Zinc | < | 6.1 | | | 2 | ug/L | J | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | F | CS | | Met | 200.7 | Zinc | | 7.6 | | | 2 | ug/L | J | | 163267 | GF060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Met | 6010 | Zinc | < | 9.7 | | | 2 | ug/L | J | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Met | 6010 | Zinc | | 14.5 | | | 2 | ug/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Met | 6010 | Zinc | | 14.4 | | | 2 | ug/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Met | 200.7 | Zinc | | 10.6 | | | 2 | ug/L | | | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Pest | 8081 | BHC[delta-] | | 0.292 | | | 0.00543 | ug/L | P | J, J+ | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Pest | 8081 | BHC[delta-] | < | 0.0211 | | | 0.00526 | ug/L | U | UJ | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Pest | 8081 | BHC[delta-] | < | 0.0208 | | | 0.00521 | ug/L | U | UJ | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | H300 | Americium-241 | | -0.0016 | 0.0107 | 0.0328 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | H300 | Americium-241 | | -0.0211 | 0.0199 | 0.0309 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | H300 | Americium-241 | | -0.025 | 0.0129 | 0.0283 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | -0.00219 | 0.00466 | 0.0295 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | -0.00494 | 0.0165 | 0.0281 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | H300 | Americium-241 | | 0.0116 | 0.011 | 0.0307 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Americium-241 | | 0.00547 | 0.307 | 0.926 | | pCi/L | U | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 901.1 | Cesium-137 | | 2.95 | 2.16 | 3.87 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 901.1 | Cesium-137 | | 1.4 | 0.991 | 3.69 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 901.1 | Cesium-137 | | -0.578 | 0.726 | 2.56 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 901.1 | Cesium-137 | | 1.56 | 1.11 | 4.06 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 901.1 | Cesium-137 | | -1.37 | 0.887 | 2.62 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 901.1 | Cesium-137 | | 2.34 | 1.21 | 2.54 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 901.1 | Cobalt-60 | | 0.621 | 0.992 | 4.11 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 901.1 | Cobalt-60 | | -1.39 | 1.01 | 3.36 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 901.1 | Cobalt-60 | | -0.267 | 0.686 | 2.4 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 901.1 | Cobalt-60 | | 0.974 | 0.929 | 3.88 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 901.1 | Cobalt-60 | | -1.53 | 0.834 | 2.29 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 901.1 | Cobalt-60 | | 1.9 | 0.998 | 3.6 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 900 | Gross alpha | | 0.215 | 0.496 | 1.92 | | pCi/L | U | J-, U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 900 | Gross alpha | | -0.0177 | 0.328 | 1.1 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 900 | Gross alpha | | -0.288 | 0.415 | 1.46 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 1.71 | 1.13 | 2.89 | | pCi/L | U | J-, U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 0.31 | 0.411 | 1.39 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 900 | Gross alpha | | 1.09 | 0.403 | 1.25 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | 900 | Gross alpha | | 0.446 | 0.364 | 1.36 | | pCi/L | U | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 900 | Gross beta | | 6.13 | 1.11 | 2.69 | | pCi/L | | J | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 900 | Gross beta | | 11.9 | 2.25 | 7.69 | | pCi/L | | J | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 900 | Gross beta | | 9.25 | 0.856 | 2.3 | | pCi/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 6.97 | 0.816 | 1.85 | | pCi/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 10.7 | 2.16 | 7.16 | | pCi/L | | J | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 900 | Gross beta | | 10.7 | 1.61 | 5 | | pCi/L | | J | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | 900 | Gross beta | | 10.4 | 1.62 | 5.27 | | pCi/L | | J | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 901.1 | Gross gamma | | 85 | 82.2 | 318 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 901.1 | Gross gamma | | 70.6 | 71.7 | 335 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 901.1 | Gross gamma | | 213 | 85.3 | 316 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 901.1 | Gross gamma | | 65 | 91.2 | 241 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 901.1 | Gross gamma | | 75.7 | 60.5 | 181 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 901.1 | Gross gamma | | 61.1 | 44.7 | 165 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 901.1 | Neptunium-237 | | 12.9 | 11.4 | 33.4 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 901.1 | Neptunium-237 | | -3.9 | 7.2 | 24.1 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 901.1 | Neptunium-237 | | 2.52 | 5.12 | 17 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 901.1 | Neptunium-237 | | 13.4 | 6.98 | 23.9 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 901.1 | Neptunium-237 | | 10.2 | 6.09 | 19 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 901.1 | Neptunium-237 | | 5.71 | 6.8 | 19.9 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | H300 | Plutonium-238 | | 0.0264 | 0.0136 | 0.0455 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | H300 | Plutonium-238 | | -0.005 | 0.00613 | 0.024 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | H300 | Plutonium-238 | | 0.00458 | 0.0219 | 0.044 | | pCi/L | U | J+, U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | 0.0289 | 0.0174 | 0.0497 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | 0.00248 | 0.00554 | 0.0238 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | H300 | Plutonium-238 | | -0.0288 | 0.0384 | 0.0461 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Plutonium-238 | | 0.0405 | 0.0405 | 0.486 | | pCi/L | U | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.0044 | 0.00441 | 0.0532 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.01 | 0.00937 | 0.028 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.0137 | 0.0102 | 0.0512 | | pCi/L | U | J+, U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | 0.00963 | 0.00682 | 0.0582 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.0173 | 0.0102 | 0.0277 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.0192 | 0.0215 | 0.0537 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Plutonium-239/Plutonium-240 | | -0.121 | 0.157 | 0.533 | | pCi/L | U | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 901.1 | Potassium-40 | | 40.5 | 22.2 | 31.8 | | pCi/L | UI | R | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 901.1 | Potassium-40 | | 22.4 | 11.7 | 46.5 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 901.1 | Potassium-40 | | 9.97 | 7.17 | 29 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 901.1 | Potassium-40 | | 21.6 | 11.4 | 47.9 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 901.1 | Potassium-40 | | 7.02 | 12.5 | 40.1 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 901.1 | Potassium-40 | | 26.3 | 14.5 | 32 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 901.1 | Sodium-22 | | -0.293 | 1.29 | 4.83 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 901.1 | Sodium-22 | | 1.06 | 0.906 | 3.61 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 901.1 | Sodium-22 | | -1.26 | 0.71 | 2.2 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 901.1 | Sodium-22 | | -0.0256 | 0.795 | 3.13 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 901.1 | Sodium-22 | | 0.936 | 0.849 | 2.97 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 901.1 | Sodium-22 | | -1.07 | 0.961 | 2.94 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | 905.0 | Strontium-90 | | 0.0174 | 0.0811 | 0.294 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | 905.0 | Strontium-90 | | -0.0469 | 0.066 | 0.299 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | 905.0 | Strontium-90 | | -0.164 | 0.0788 | 0.391 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | 905.0 | Strontium-90 | | 0.0678 | 0.0955 | 0.332 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | 905.0 | Strontium-90 | | -0.161 | 0.0668 | 0.338 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | 905.0 | Strontium-90 | | 0.105 | 0.056 | 0.183 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | LLEE | Tritium | | 16.82711 | 0.54281 | 0.28737 | | pCi/L | | | 2279 | UU061000PSFS01 | UMTL |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | LLEE | Tritium | | 27.74717 | 0.89404 | 0.28737 | | pCi/L | | | 2227 | UU060600PSFS01 | UMTL |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | LLEE | Tritium | | 27.90682 | 0.92597 | 0.28737 | | pCi/L | | | 2227 | UU060600PSFS90 | UMTL |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | H300 | Uranium-234 | | 0.919 | 0.0721 | 0.0502 | | pCi/L | | | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | H300 | Uranium-234 | | 0.696 | 0.0624 | 0.059 | | pCi/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | H300 | Uranium-234 | | 0.594 | 0.0539 | 0.0548 | | pCi/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.888 | 0.0682 | 0.0454 | | pCi/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.594 | 0.0513 | 0.0486 | | pCi/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | H300 | Uranium-234 | | 0.57 | 0.0541 | 0.06 | | pCi/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-234 | | 0.502 | 0.18 | 1.33 | | pCi/L | U | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0357 | 0.0113 | 0.0423 | | pCi/L | U | U | 174497 | GF061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.028 | 0.01 | 0.0497 | | pCi/L | U | U | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0 | 0.0121 | 0.0462 | | pCi/L | U | U | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0296 | 0.0124 | 0.0383 | | pCi/L | U | U | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.0288 | 0.0109 | 0.041 | | pCi/L | U | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | H300 | Uranium-235/Uranium-236 | | 0.032 | 0.012 | 0.0506 | | pCi/L | U | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-235/Uranium-236 | | 0.155 | 0.0901 | 0.647 | | pCi/L | U | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | F | CS | | Rad | H300 | Uranium-238 | | 0.448 | 0.0425 | 0.0534 | | pCi/L | | | 174497 | GF061000PSFS01 | GELC |

**Sandia Watershed Last Four Analytical Results**
**for Sampling October 10-17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDA | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | | Rad | H300 | Uranium-238 | | 0.368 | 0.0394 | 0.0627 | | pCi/L | | | 166359 | GF060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | F | CS | FD | Rad | H300 | Uranium-238 | | 0.299 | 0.0336 | 0.0583 | | pCi/L | | | 166359 | GF060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | 0.435 | 0.0403 | 0.0483 | | pCi/L | | | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | 0.293 | 0.0317 | 0.0517 | | pCi/L | | | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Rad | H300 | Uranium-238 | | 0.273 | 0.0332 | 0.0639 | | pCi/L | | | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 5/17/2006 | WP | UF | CS | | Rad | H300 | Uranium-238 | | -0.0419 | 0.139 | 0.748 | | pCi/L | U | U | 163267 | GU060500PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | | Voa | 8260 | Acetone | | 5.35 | | | 1.25 | ug/L | | J+ | 174497 | GU061000PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 10/17/2006 | WP | UF | CS | FTB | Voa | 8260 | Acetone | < | 5 | | | 1.25 | ug/L | U | | 174497 | GU061000PSFS01-FTB | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | | Voa | 8260 | Acetone | < | 6.61 | | | 1.25 | ug/L | | U | 166359 | GU060600PSFS01 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FD | Voa | 8260 | Acetone | < | 9.38 | | | 1.25 | ug/L | | U | 166359 | GU060600PSFS90 | GELC |
| South Fork of Sandia Canyon at E122 | | | 6/29/2006 | WP | UF | CS | FTB | Voa | 8260 | Acetone | | 1.27 | | | 1.25 | ug/L | J | | 166359 | GU060600PSFS01-FTB | GELC |

**Sandia Canyon Watershed Last Four Analytical Results**
**for Sampling June 26 - July 17, 2006**

| Location | Port | Depth (ft) | Date | Fld Matrix | Fld Prep | Lab Sample Type | Fld QC | Suite | Method | Analyte | Symbol | Result | 1-sigma TPU | MDL | Units | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Middle Sandia Canyon at terminus of persistent baseflow | - | - | 07/12/06 | WP | UF | CS | | Isotope | - | Deuterium Ratio | | -58.49 | 0.3 | | permil | | | 12622 | EU060600PMSC01 | EES6 |
| Middle Sandia Canyon at terminus of persistent baseflow | - | - | 07/12/06 | WP | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -8.29 | 0.18 | | permil | | | 12968 | EU060600PMSC01 | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | | Metal | 7196A | Chromium hexavalent ion | | 28.2 | | 10 | ug/L | | J | WG-03839-ST | SU060500G11R01 | STLA |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | | Metal | 7196 | Chromium hexavalent ion | | 28.2 | | 10 | ug/L | | J | WG-03839-ST | SU060500G11R01 | STLA |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FD | Metal | 7196 | Chromium hexavalent ion | | 30.9 | | 10 | ug/L | | J | WG-03839-ST | SU060500G11R90 | STLA |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FD | Metal | 7196A | Chromium hexavalent ion | | 30.9 | | 10 | ug/L | | J | WG-03839-ST | SU060500G11R90 | STLA |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FB | Metal | 7196 | Chromium hexavalent ion | < | 20 | | 10 | ug/L | U | UJ | WG-03839-ST | SU060500G11R01-FB | STLA |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FB | Metal | 7196A | Chromium hexavalent ion | < | 20 | | 10 | ug/L | U | UJ | WG-03839-ST | SU060500G11R01-FB | STLA |
| R-11 | 5531 | 855 | 02/03/06 | WG | UF | CS | | Metal | 7199 | Chromium hexavalent ion | | 26.4 | | 0.6 | ug/L | | J+ | E6B060131 | SU06010G11R01 | STLA |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | | Isotope | - | Deuterium Ratio | | -74.78 | 0.3 | | permil | | | 12599 | EU060500G11R01 | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FD | Isotope | - | Deuterium Ratio | | -74.89 | 0.1 | | permil | | | 12601 | EU060500G11R90 | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FB | Isotope | - | Deuterium Ratio | | -74.5 | 0.2 | | permil | | | 12600 | EU060500G11R01-FB | EES6 |
| R-11 | 5531 | 855 | 02/03/06 | WG | UF | CS | | Isotope | - | Deuterium Ratio | | -74.8 | 0.1 | | permil | | | 11946 | EU06010G11R01 | EES6 |
| R-11 | 5531 | 855 | 11/08/05 | WG | UF | CS | | Isotope | - | Deuterium Ratio | | -73.95 | 0.18 | | permil | | | 11299 | EU05110G11R01 | EES6 |
| R-11 | 5531 | 855 | 11/08/05 | WG | UF | CS | FD | Isotope | - | Deuterium Ratio | | -74.02 | 0.22 | | permil | | | 11300 | EU05110G11R90 | EES6 |
| R-11 | 5531 | 855 | 08/03/05 | WG | UF | CS | | Isotope | - | Deuterium Ratio | | -73.55 | 0.2 | | permil | | | 5788 | EU05080G11R01 | EES6 |
| R-11 | 5531 | 855 | 08/03/05 | WG | UF | CS | | Isotope | - | Deuterium Ratio | | -73.44 | 0.01 | | permil | | | 5790 | EU05080G11R02 | EES6 |
| R-11 | 5531 | 855 | 05/17/05 | WG | UF | CS | | Isotope | - | Deuterium Ratio | | -74.72 | 0.19 | | permil | | | 5736 | EU05050G11R01 | EES6 |
| R-11 | 5531 | 855 | 05/17/05 | WG | UF | CS | FD | Isotope | - | Deuterium Ratio | | -74.2 | | | permil | | | 11940 | EU05050G11R90 | EES6 |
| R-11 | 5531 | 855 | 05/17/05 | WG | UF | CS | FB | Isotope | - | Deuterium Ratio | | -77.89 | 0.33 | | permil | | | 5737 | EU05050G11R01-FB | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | F | CS | | Isotope | - | Nitrogen-15/Nitrogen-14 Ratio | | 4.16 | 0.1 | | permil | | | 12944 | EF060500G11R01 | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | F | CS | FD | Isotope | - | Nitrogen-15/Nitrogen-14 Ratio | | 4.1 | 0.1 | | permil | | | 12945 | EF060500G11R90 | EES6 |
| R-11 | 5531 | 855 | 02/03/06 | WG | F | CS | | Isotope | - | Nitrogen-15/Nitrogen-14 Ratio | | 5.12 | 0.15 | | permil | | | 11838 | EF06010G11R01 | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.39 | 0.08 | | permil | | | 12674 | EU060500G11R01 | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FD | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.43 | 0.08 | | permil | | | 12677 | EU060500G11R90 | EES6 |
| R-11 | 5531 | 855 | 07/10/06 | WG | UF | CS | FB | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.29 | 0.08 | | permil | | | 12676 | EU060500G11R01-FB | EES6 |
| R-11 | 5531 | 855 | 02/03/06 | WG | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.32 | 0.06 | | permil | | | 11889 | EU06010G11R01 | EES6 |
| R-11 | 5531 | 855 | 11/08/05 | WG | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.17 | 0.12 | | permil | | | 6078 | EU05110G11R01 | EES6 |
| R-11 | 5531 | 855 | 11/08/05 | WG | UF | CS | FD | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.12 | 0.12 | | permil | | | 11457 | EU05110G11R90 | EES6 |
| R-11 | 5531 | 855 | 08/03/05 | WG | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.49 | 0.09 | | permil | | | 6042 | EU05080G11R01 | EES6 |
| R-11 | 5531 | 855 | 08/03/05 | WG | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -10.42 | 0.09 | | permil | | | 6044 | EU05080G11R02 | EES6 |
| Sandia below Wetlands | - | - | 07/12/06 | WP | UF | CS | | Isotope | - | Deuterium Ratio | | -63.36 | 0.4 | | permil | | | 12620 | EU060600P12301 | EES6 |
| Sandia below Wetlands | - | - | 07/12/06 | WP | UF | CS | FB | Isotope | - | Deuterium Ratio | | -63.21 | 0.28 | | permil | | | 12621 | EU060600P12301-FB | EES6 |
| Sandia below Wetlands | - | - | 07/12/06 | WP | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -8.96 | 0.18 | | permil | | | 12966 | EU060600P12301 | EES6 |
| Sandia below Wetlands | - | - | 07/12/06 | WP | UF | CS | FB | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -8.83 | 0.18 | | permil | | | 12967 | EU060600P12301-FB | EES6 |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WP | UF | CS | | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -4.89 | 0.07 | | permil | | | 12691 | EU060600PSFS01 | EES6 |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WP | UF | CS | FD | Isotope | - | Oxygen-18/Oxygen-16 Ratio | | -4.62 | 0.07 | | permil | | | 12692 | EU060600PSFS90 | EES6 |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WP | UF | CS | | Isotope | - | Deuterium Ratio | | -39.68 | 0.1 | | permil | | | 12618 | EU060600PSFS01 | EES6 |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WP | UF | CS | FD | Isotope | - | Deuterium Ratio | | -39.78 | 0.2 | | permil | | | 12619 | EU060600PSFS90 | EES6 |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WS | UF | CS | | Metal | 7196A | Chromium hexavalent ion | | 9.2 | | | ug/L | | J | WP-03856-ST | SU060600PSFS01 | STLA |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WP | UF | CS | FD | Metal | 7196A | Chromium hexavalent ion | | 9.2 | | | ug/L | | J | WP-03856-ST | SU060600PSFS90 | STLA |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WP | UF | CS | | Rad | LLEE | Tritium | | 27.747 | 0.894 | | pCi/L | | | 2227 | UU060600PSFS01 | UMTL |
| South Fork of Sandia Canyon at E122 | - | - | 06/29/06 | WP | UF | CS | FD | Rad | LLEE | Tritium | | 27.907 | 0.926 | | pCi/L | | | 2227 | UU060600PSFS90 | UMTL |

# Appendix E

*Screening Results*

**Table E-1**
**Surface Water General Inorganics**

| Location Name | Start Date | Analyte | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code | NM LVSTK WTR STD | NM LVSTK WTR STD Ratio (Results/Scr Lvl) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | 10/17/06 | $NO_3$+$NO_2$-N | F[a] | CS[c] | —[e] | | 770 | 2.8 | mg/L | — | J[g] | I13b[h], I14b[i] | N[k] | SW-846:6010B | 132 | 5.83 |
| South Fork of Sandia Canyon at E122 | 10/17/06 | $NO_3$+$NO_2$-N | F | RE[d] | — | | 1030 | 7 | mg/L | H[f] | J | I9[j] | N | SW-846:6010B | 132 | 7.8 |
| Sandia Below Wetlands | 10/18/06 | $NO_3$+$NO_2$-N | UF[b] | CS | — | | 775 | 2.8 | mg/L | — | J | I13b, I14b | N | SW-846:6010B | 132 | 5.87 |
| Sandia Below Wetlands | 10/18/06 | $NO_3$+$NO_2$-N | UF | RE | — | | 956 | 7 | mg/L | H | J | I9 | N | SW-846:6010B | 132 | 7.24 |

[a] F Filtered.

[b] UF Unfiltered.

[c] CS Client sample.

[d] RE Reanalysis.

[e] — No data.

[f] H The required extraction or analysis holding time for this result was exceeded.

[g] J The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.

[h] I13b The duplicate sample analysis was not performed on a sample associated with this request number.

[I] I14b The matrix spike analysis was not performed on a sample associated with this request number.

[J] I9 The holding time is exceeded. Positive results may be biased low, and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.

[k] N No.

**Table E-2**
**Surface Water Perchlorate**

| Location Name | Start Date | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Dilution Factor | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia Below Wetlands | 10/18/06 | F[a] | CS[b] | —[c] | — | 0.344 | 0.05 | µg/L | 1 | — | — | — | N[d] | SW846 6850 Modified |
| South Fork of Sandia Canyon at E122 | 10/17/06 | F | CS | — | — | 0.788 | 0.05 | µg/L | 2 | — | — | — | N | SW846 6850 Modified |
| Middle Sandia Canyon at terminus of persistent baseflow | 10/18/06 | F | CS | — | — | 0.325 | 0.05 | µg/L | 1 | — | — | — | N | SW846 6850 Modified |

[a] F Filtered.
[b] CS Client sample.
[c] — No data.
[d] N No.

**Table E-3**
**Surface Water Metals**

| Location Name | Start Date | Analyte | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code | NM Aqua Chronic 100mg F Scr Lvl | NM Aqua Chronic 100mg F Scr Lvl Ratio (Results/Scr Lvl) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | 10/17/06 | Al | F[a] | CS[b] | —[c] | — | 93.7 | 68 | µg/L | J[d] | — | — | N | SW-846:6010B | 87 | 1.08 |
| Middle Sandia Canyon at terminus of persistent baseflow | 10/18/06 | Al | F | CS | — | — | 87.9 | 68 | µg/L | J | — | — | N | SW-846:6010B | 87 | 1.01 |
| Sandia Below Wetlands | 10/18/06 | Al | F | CS | — | — | 100 | 68 | µg/L | J | — | — | N | SW-846:6010B | 87 | 1.15 |

[a] F Filtered.

[b] CS Client Sample.

[c] — No data.

[d] J The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.

**Table E-4**
**Surface Water Organics**

| Location Name | Start Date | Analyte | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South Fork of Sandia Canyon at E122 | 10/17/06 | BHC[delta-] | UF[a] | CS[b] | —[c] | | 0.292 | 0.00543 | µg/L | P[d] | J[e], J+[f] | PWQ3[g], PWQ6[h] | N[i] | SW-846:8081A |

[a] UF Unfiltered.

[b] CS Client sample.

[c] — No data.

[d] P The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference.

[e] J The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.

[f] J+ The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.

[g] PWQ3 The spike percent recovery value is greater than or equal to the upper acceptance limit, and the result is a detect, which indicates a potential high bias in the sample results.

[h] PWQ6 Non-specified quality control failure. See validation report.

[i] N No.

**Table E-5**
**Surface Water Tritium**

| Location Name | Start Date | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sandia Below Wetlands | 10/18/06 | UF[a] | CS | —[b] | — | 18.14 | 0.28737 | pCi/L | — | — | — | N | Generic:Low Level with Electrolytic Enrichment (LLEE) |
| South Fork of Sandia Canyon at E122 | 10/17/06 | UF | CS | — | — | 16.83 | 0.28737 | pCi/L | — | — | — | N | Generic:LLEE |

[a] UF Unfiltered.

[b] — No data.

**Table E-6**
**Groundwater Metals**

| Zone | Location Name | Well Class | Port Depth | Start Date | Analyte | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code | EPA MCL | EPA MCL Ratio (Result/STD) | NM GW Limit | NM GW Lvl Ratio ( Result/Scr Lvl) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | As | F[a] | CS[b] | —[c] | — | 8.7 | 6 | µg/L | J[e] | — | — | N[f] | SW-846:6010B | 10 | 0.87 | — | — |
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | Fe | F | CS | — | — | 512 | 18 | µg/L | — | — | — | N | SW-846:6010B | — | — | 1000 | 0.51 |
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | Mn | F | CS | — | — | 514 | 2 | µg/L | — | — | — | N | SW-846:6010B | — | — | 200 | 2.57 |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | Cr | F | CS | FD[d] | — | 29.3 | 1 | µg/L | — | — | — | N | SW-846:6020 | — | — | 50 | 0.59 |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | Cr | F | CS | — | — | 29.4 | 1 | µg/L | — | — | — | N | SW-846:6020 | — | — | 50 | 0.59 |

[a] F Filtered.
[b] CS Client sample.
[c] — No data.
[d] FD Field duplicate.
[e] J The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.
[f] N No.

**Table E-7**
**Groundwater General Inorganics**

| Zone | Location Name | Well Class | Port Depth | Start Date | Analyte | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code | EPA MCL | EPA MCL Ratio (Result/STD) | NM GW Limit | NM GW Lvl Ratio (Result/Scr Lvl) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | $NO_3$+$NO_2$-N | F[a] | CS[b] | —[c] | — | 5.94 | 0.14 | mg/L | — | J | I13b[d], I14b[e] | N[f] | SW-846:6010B | 10 | 0.59 | 10 | 0.59 |

[a] F Filtered.

[b] CS Client sample.

[c] — No data.

[d] I13b The duplicate sample analysis was not performed on a sample associated with this request number.

[e] I14b The matrix spike analysis was not performed on a sample associated with this request number.

[f] N No.

**Table E-8**
**Groundwater Radionuclides**

| Zone | Location Name | Well Class | Port Depth | Start Date | Analyte | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code | EPA MCL | EPA MCL Ration (Result/STD) | NMED Rad Prot Screening Level | NM GW LIM Ratio (Result/Scr Lvl) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | Sr-90 | F[a] | CS[c] | —[d] | — | 0.152 | pCi/L | — | J[f] | RWQ2[g] | N[h] | EPA:905.0 | 8 | 0.02 | 500 | — |
| Alluvial | SCA-5 | SINGLE | 65.2 | 10/11/06 | Gross-α | UF[b] | CS | FD[e] | — | 5.47 | pCi/L | — | J | RWQ2 | N | EPA:900 | 15 | 0.36 | — | — |

[a] F Filtered.
[b] UF Unfiltered.
[c] CS Client sample.
[d] — No data.
[e] FD Field duplicate.
[f] J The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.
[g] RWQ2 Result values are less than 3 times the MDC.
[h] N No.

**Table E-9**
**Groundwater Tritium**

| Zone | Location Name | Well Class | Port Depth (feet) | Start Date | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Units | MDA | Analytical Method Code | Preliminary Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | UF[a] | CS[b] | n/a[c] | —[e] | 25.83 | pCi/L | 0.28737 | Generic:Low Level with Electrolytic Enrichment (LLEE) | N[f] |
| Alluvial | SCA-5 | SINGLE | 65.2 | 10/11/06 | UF | CS | FD[d] | — | 103.13 | pCi/L | 0.28737 | Generic:LLEE | N |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | UF | CS | FD | — | 10.22 | pCi/L | 0.28737 | Generic:LLEE | N |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | UF | CS | n/a | — | 9.36 | pCi/L | 0.28737 | Generic:LLEE | N |

[a] UF Unfiltered.
[b] CS Client sample.
[c] n/a Not applicable.
[d] FD Field duplicate.
[e] — No data.
[f] N No.

**Table E-10**
**Groundwater Organics**

| Zone | Location Name | Well Class | Port Depth | Start Date | Analyte | Field Prep Code | Lab Sample Type Code | Field QC Type Code | Symbol | Result | Method Detection Limit | Unit of Measure | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag | Analytical Method Code | EPA MCL | EPA MCL Ratio (Result/STD) | EPA Tap Screening Level | EPA Tap Scr Lvl Ratio (Result/Scr LVL) | EPA Tap Screening Level | EPA Tap Scr Lvl Ratio (Result/Scr LVL) | NM GW Limit | NM GW Lvl Ratio (Result/Scr Lvl) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | Aroclor-1260 | UF[a] | CS[b] | —[c] | — | 0.056 | 0.0333 | µg/L | J[e] | J-[f] | PWQ10[g] | N[h] | SW-846:8082 | 0.5 | 0.11 | 0.03 | 1.67 | — | — | 1 | 0.06 |
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | Acetone | UF | CS | — | — | 3.8 | 1.25 | µg/L | J | — | — | N | SW-846:8260B | — | — | — | — | 5475 | 0 | — | — |
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | Toluene | UF | CS | — | — | 3.97 | 0.25 | µg/L | — | — | — | N | SW-846:8260B | 1000 | 0 | — | — | 2281.25 | 0 | 750 | 0.01 |
| Alluvial | SCA-5 | SINGLE | 65.2 | 10/11/06 | Acetone | UF | CS | FD[d] | — | 2.3 | 1.25 | µg/L | J | — | — | N | SW-846:8260B | — | — | — | — | 5475 | 0 | — | — |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | Acetone | UF | CS | FD | — | 1.95 | 1.25 | µg/L | J | — | — | N | SW-846:8260B | — | — | — | — | 5475 | 0 | — | — |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | Acetone | UF | CS | — | — | 1.99 | 1.25 | µg/L | J | — | — | N | SW-846:8260B | — | — | — | — | 5475 | 0 | — | — |

[a] UF Unfiltered.
[b] CS Client sample.
[c] — No data.
[d] FD Field duplicate.
[e] J The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.
[f] J- The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential negative bias.
[g] PWQ10 Calibration verification percent difference exceeded acceptance criteria but was less than 60%.

**Table E-11**
**Groundwater Perchlorate**

| Zone | Location Name | Well Class | Port Depth | Start Date | Field QC Type Code | Field Prep Code | Lab Sample Type Code | Analytical Method Code | Symbol | Result | Method Detection Limit | Unit of Measure | Dilution Factor | Lab Qualifier Code | Secondary Validation Flag Code | Secondary Validation Reason Code | Preliminary Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alluvial | SCA-1 | SINGLE | 2.1 | 10/16/06 | —[a] | F[c] | CS[d] | SW846 6850 Modified | — | 0.341 | 0.05 | µg/L | 1 | — | — | — | N[e] |
| Alluvial | SCA-5 | SINGLE | 65.2 | 10/11/06 | — | F | CS | SW846 6850 Modified | — | 0.378 | 0.05 | µg/L | 1 | — | — | — | N |
| Alluvial | SCA-5 | SINGLE | 65.2 | 10/11/06 | FD[b] | F | CS | SW846 6850 Modified | — | 0.368 | 0.05 | µg/L | 1 | — | — | — | N |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | — | F | CS | SW846 6850 Modified | — | 0.691 | 0.05 | µg/L | 1 | — | — | — | N |
| Regional | R-11 | SINGLE | 855 | 10/10/06 | FD | F | CS | SW846 6850 Modified | — | 0.674 | 0.05 | µg/L | 1 | — | — | — | N |

[a] — No data.
[b] FD Field duplicate.
[c] F Filtered.
[d] CS Client sample.
[e] N No.

# Appendix F

*Annual Statement on Investigation-Derived Waste Management (from the Environmental Protection Division-Water Quality and Resource Conservation and Recovery Act Group)*

This appendix describes the storage and disposal of investigation-derived waste (IDW) generated during this periodic groundwater monitoring event conducted in the Sandia watershed under the Los Alamos National Laboratory (the Laboratory) Interim Facility-Wide Groundwater Monitoring Plan (Interim Plan). IDW is waste generated as a result of field investigation activities and may include, but is not limited to purge water; contaminated personal protective equipment (PPE), sampling supplies, and plastic; fluids from the decontamination of PPE and sampling equipment; and all other wastes potentially contacting contaminants. IDW generated during implementation of the Interim Plan is managed to protect human health and the environment, comply with applicable regulatory requirements, and adhere to Laboratory waste minimization goals.

All IDW generated during this periodic monitoring event is being (has been) managed in accordance with applicable Environmental Programs – Environment and Remediation Support Services (EP-ERSS) standard operating procedures (SOPs). These SOPs incorporate the requirements of all applicable U.S. Environmental Protection Agency (EPA) and New Mexico Environment Department (NMED) regulations, Department of Energy (DOE) orders, and Laboratory Implementation Requirements (LIRs).

SOPs applicable to the characterization and management of IDW are the following:

- SOP-1.06, Revision 2, Management of Environmental Restoration Project Waste, and
- SOP-1.10, Revision 2, Waste Characterization.

These SOPs are applicable to implementation of the Interim Plan and may be found at the following URL: http://erproject.lanl.gov/documents/procedures/sops.html.

The Laboratory's 2006 Los Alamos National Laboratory Hazardous Waste Minimization Report (LANL 2006, 096015) will be implemented during groundwater monitoring to minimize waste generation. This document is updated annually as a requirement of Module VIII of the Laboratory's Hazardous Waste Facility Permit.

Two particular documents are being implemented during the management of groundwater monitoring IDW:

- LANL's NMED-approved Notice of Intent (NOI) Decision Tree (Revision 7/26/06) and
- Sandia Watershed Groundwater Monitoring Waste Characterization Strategy Form (WCSF)

The investigation-derived waste streams associated with groundwater monitoring are identified in Table F-1 and are briefly described below. Table F-1 summarizes the waste type, volumes, characterization methods, methods of on-site management, and disposition path for each of the waste streams. Only the wastes generated during this particular monitoring event are described in this section and in Table F-1.

Purge water: The purge water waste stream consists of groundwater purged from wells in the Sandia watershed prior to sampling in order to assure that representative samples are collected. Purge water is being managed and characterized in accordance with the Sandia Watershed Groundwater Monitoring Waste Characterization Strategy Form and the NOI Decision Tree, which has been approved by the NMED Ground Water Quality Bureau (GWQB) and Hazardous Waste Bureau. The purge water is being characterized with analytical results from groundwater samples collected at the time of purging. The groundwater analyses are augmented by direct sampling of containerized purge waters as needed to fulfill disposal facility Waste Acceptance Criteria. The results of the analyses, along with acceptable knowledge of the sources of constituents identified in the purge water, will be used to determine whether

the water contains hazardous waste, in accordance with 40 CFR 262.11 (incorporated by 20.4.1.300 N MAC) (decision point D2 of the NOI decision tree). If the water is determined to be hazardous, it will be treated or disposed of at a permitted off-site treatment, storage, or disposal (TSD) facility, unless a "contained-in" determination has been granted by the NMED (decision point D5).

During the monitoring activity purge water was collected and containerized as it was removed from the wells. The type of container that was used depended on the volume of purge water expected and includes 5-gal. carboys stored in 55-gal. drums, 55-gal. drums, or tanks. U.S. Department of Transportation (DOT)-approved containers are used, as appropriate for transport. The containers of purge water are managed conservatively and staged in satellite accumulation areas or less-than-90-day areas, pending results of analysis, hazardous waste determinations and WPF approval. These accumulation areas are approved by the Laboratory's Environmental Protection Division, Water Quality and RCRA (ENV-RCRA) Group. The accumulation areas may be at the location of the wells, or may be at other locations at the Laboratory. Containerized purge water will be characterized based on the results of the analysis of water samples from the associated well(s) or by direct sampling and analysis of the purge water, as described below. The groundwater analysis data are currently in review.

At wells where nonhazardous determinations have been made, the storage of the purge water has continued as nonhazardous pending comparison of the data to land application criteria and ENV-RCRA approval for discharge to the ground. At wells where nonhazardous determinations have been made, but land application criteria have not been met, the purge water will be transported and disposed at on-site facilities.

The Laboratory expects most of the remaining stored purge waters will eventually be approved for land application and discharged to the ground, designated nonhazardous liquid waste or radioactive liquid waste that would be sent to SWSC or the SERF Evaporation Basins, the RLWTF or the TA-53 Evaporation Basins, respectively. If purge water is approved for land application, the discharge will be conducted in accordance with the terms and conditions of the NOI decision tree, disposal pathway P2.

**Spent PPE:** The spent PPE waste stream consists of PPE that "contacted" potentially contaminated environmental media (i.e., purge water) and that cannot be decontaminated. The bulk of this waste stream consists of gloves. Spent PPE has been collected together with spent disposable sampling supplies from the same sample location in containers such as zip-lock baggies, and accumulated in 55-gal. drums at well sites or at a consolidated accumulation area. Characterization of this waste stream is being performed through acceptable knowledge of the waste materials, the methods of generation, and the levels of contamination observed in the environmental media (e.g., the results of analysis of associated water samples). At present the spent PPE that has been in contact with groundwater from wells that have had a nonhazardous, nonradioactive determination, has been disposed at a New Mexico solid waste landfill. At present, the remaining spent PPE is being managed conservatively and staged in satellite accumulation areas or less-than-90-day areas at each well or at a consolidated accumulation area, pending data review, hazardous waste determinations, and WPF approval.

The Laboratory expects most of these remaining wastes will be designated as nonhazardous waste that will be disposed of at a New Mexico solid waste landfill. If groundwater contains elevated radioactivity, the contact wastes may be designated as low-level radioactive waste and disposed of at TA-54 Area G, or the LANL Green is Clean program will be used to verify that spent PPE is nonradioactive and qualifies for disposal at a New Mexico solid waste landfill. If the purge water is determined to be hazardous, the associated PPE wastes will be treated or disposed of at a permitted off-site treatment, storage, or disposal (TSD) facility.

**Disposable sampling supplies:** The spent disposable sampling supplies waste stream consists of all equipment and materials required for collecting samples that came into direct contact with potentially contaminated environmental media (i.e., purge water) and that cannot be decontaminated. This waste stream also includes wastes associated with dry decontamination activities, such as paper items. Spent disposable sampling supplies have been collected together with spent PPE from the same sample location in containers such as, zip-lock baggies and accumulated in 55-gal. drums at well sites or at a consolidated accumulation area. Characterization of this waste stream is being performed through acceptable knowledge of the waste materials, the methods of generation, and the levels of contamination observed in the environmental media (e.g., the results of analysis of associated water samples). At present the spent disposable sampling supplies that have been in contact with groundwater from wells that have had a nonhazardous, nonradioactive determination, have been disposed at a New Mexico solid waste landfill. At present, the remaining spent disposable sampling supplies are being managed conservatively and staged in satellite accumulation areas or less-than-90-day areas at each well or at a consolidated accumulation area, pending data review, hazardous waste determinations, and WPF approval.

The Laboratory expects most of these remaining wastes will be designated as nonhazardous waste that will be disposed of at a New Mexico solid waste landfill. If groundwater contains elevated radioactivity, the wastes may be designated as low-level radioactive waste and disposed of at TA-54 Area G or the LANL Green is Clean program will be used to verify that disposable sampling supplies are nonradioactive and qualify for disposal at a New Mexico solid waste landfill. If the purge water is determined to be hazardous, the associated sampling wastes will be treated or disposed of at a permitted off-site treatment, storage, or disposal (TSD) facility.

**Decontamination fluids:** The decontamination fluids waste stream consists of liquid wastes from decontamination activities (i.e., decontamination solutions and rinse waters, such as DI water and Alconox). Consistent with waste minimization practices, the Laboratory has employed dry decontamination methods to the extent possible. Where dry decontamination could not be performed, liquid decontamination wastes were collected in containers at the point of generation. The decontamination fluids waste stream has been accumulated in drums and is being characterized through acceptable knowledge of the waste materials, the levels of contamination observed in the environmental media (e.g., the results of the associated water samples) and, if necessary, direct sampling of the containerized waste.

These wastes will be designated the same as the associated purge water. The Laboratory expects most of these wastes will be designated nonhazardous liquid waste or radioactive liquid waste that would be sent to SWSC or the SERF Evaporation Basins, the RLWTF or the TA-53 Evaporation Basins, respectively. If the purge water is determined to be hazardous, the associated decontamination fluid will be treated or disposed of at a permitted off-site treatment, storage, or disposal (TSD) facility along with the associated purge water.

Prior to the start of field investigation activities, the Sandia Watershed Groundwater Monitoring WCSF was prepared and approved per requirements of SOP 01.10, Revision 2. The WCSF provides information on IDW characterization, management, containerization, analytical methods and estimated volumes. IDW characterization will be completed through review of existing data and/or documentation, sampling of the media being investigated (i.e., groundwater), and by direct sampling of the IDW. The approved WCSF is provided as Attachment F-1 to this appendix.

Immediately following containerization of IDW for storage, each waste container was individually labeled with a unique identification number and with information regarding suspected waste classification, item(s), radioactivity (if applicable), and date generated. The wastes have been contained in clearly marked and appropriately constructed waste accumulation areas. Waste accumulation area postings, regulated storage duration, and inspection requirements are based on the type of IDW and its suspected classification. Container and storage requirements are detailed in the WCSF and approved prior to waste being generated. The selection of waste containers for transportation is pending final waste determinations and segregation and will be based on appropriate DOT requirements, waste types, actual volumes of IDW to be disposed and transport mechanism.

## REFERENCES

The following list includes all documents cited in Appendix F. Parenthetical information following each reference provides the author, publication date, and ER ID number. This information is also included in text citations. ER (or EP) ID numbers are assigned by the ENV-ERS Program Records Processing Facility (RPF) and are used to locate the document at the RPF.

Beers, B., July 16, 2002. "Notice of Intent to Discharge, Hydrogeologic Workplan Wells," Los Alamos National Laboratory letter RRES-WQH: 02-273 to C. Frischkorn (New Mexico Environment Department Ground Water Quality Bureau) from B. Beers (Los Alamos National Laboratory WQH Group), Los Alamos, New Mexico. (Beers 2002, 76405)

LANL, July 2006. "Waste Characterization Strategy Form (WCSF) for the Sandia Watershed Groundwater Monitoring," Los Alamos National Laboratory document LA-UR-??, Los Alamos, New Mexico. (LANL 2006, ??)

LANL (Los Alamos National Laboratory), November 2006. "Los Alamos National Laboratory Hazardous Waste Minimization Report," Los Alamos National Laboratory document LA-UR-05-8650, Los Alamos, New Mexico. (LANL 2006, 096015)

**Table F-1**
**Summary of IDW Generation and Management**

| Waste Steam | Waste Type | Volume | Characterization Method | On-Site Management | Disposition Status |
|---|---|---|---|---|---|
| Purge water | Suspect hazardous, Suspect radioactive | 8.5 gal. | Analytical results from groundwater monitoring samples and acceptable knowledge (AK) | Managed conservatively and collected in 5-gal. carboys, stored in 55-gal. drums at satellite accumulation areas or collected in tanks at less-than-90-day accumulation areas | Pending data review, hazardous waste determinations and WPF approval |
| Purge water | Nonhazardous, Suspect radioactive | 2650 gal. | Analytical results from groundwater monitoring samples and AK | Managed conservatively and collected in 5-gal. carboys, stored in 55-gal. drums at satellite accumulation areas or collected in tanks at less-than-90-day accumulation areas. These wells have been determined to be nonhazardous based on data review and due diligence review of potential contaminant sources. The accumulation areas have been down-graded to nonhazardous. | Pending land application review, radioactive determinations and approval. |
| Spent PPE and disposable sampling supplies | Nonhazardous, Nonradioactive | <0.05 $yd^3$ (9 gal.) | AK | Zip-lock baggies accumulated in 55-gal. drums | Disposed at New Mexico solid waste landfill. |
| Spent PPE and disposable sampling supplies | Suspect hazardous, Suspect radioactive | <0.03 $yd^3$ (6 gal.) | AK | Zip-lock baggies accumulated in 55-gal. drums at satellite accumulation areas | Pending data review, hazardous waste determinations and WPF approval |
| Spent PPE and disposable sampling supplies | Nonhazardous, Nonradioactive | <0.003 $yd^3$ (0.5 gal.) | AK | Zip-lock baggies accumulated in 55-gal. drums | Pending segregation, Green is Clean nonradioactive verification, and WPF approval |
| Decontamination fluids | Nonhazardous, Nonradioactive | <4 gal. | AK | Collected in 250 ml to 1-gal. bottles, stored in 55-gal. drums at accumulation areas | Pending WPF approval and disposal |

# Attachment F-1

*Approved WCSF*

# Waste Characterization Strategy Form

| | |
|---|---|
| **Project Title** | *Sandia Watershed Groundwater Monitoring* |
| **Solid Waste Management Unit or Area of Concern #** | Sandia Canyon |
| **Activity Type** | Groundwater and surface water sampling and water level measurements |
| **Field Operations/Team Leader** | Mike Alexander (and various Water Stewardship Program FTLs) |
| **Field Waste Management Coordinator** | Robyn Petersen or Victor Garde |
| **Completed by** | Rene Evans and Deborah Steven |
| **Date** | July 18, 2006 |

**Description of Activity:**

This Waste Characterization Strategy Form (WCSF) pertains to the groundwater and surface water monitoring activities performed by the Los Alamos National Laboratory (LANL or the Laboratory) Environmental Program (EP) Water Stewardship Program (WSP) in the Sandia Canyon watershed (Figure 1). LANL will collect and analyze groundwater and surface water samples for specific constituents (Table 1) and at specific locations (Table 2) in order to fulfill the requirements of New Mexico Environment Department's (NMED) Compliance Order on Consent and in support of LANL's *Interim Facility-Wide Groundwater Monitoring Plan, Revision 1* (IFWGMP) (LANL 2006, 92507) to monitor the impacts of LANL's operations on the Pajarito Plateau groundwater. The monitoring for the Sandia Canyon watershed reflected in the IFWGMP is currently driven by the NMED-approved "Interim Measures Work Plan for Chromium Contamination in Groundwater" (LANL 2006, 91987). Groundwater level data will also be collected to better understand groundwater and surface water occurrence and movement. Four modes of water will be monitored: persistent surface water (base flow), alluvial groundwater, intermediate perched groundwater, and regional groundwater.

The specific activities to accomplish the above sampling and measurement goals are:

1. conduct scheduled sampling of selected existing and new alluvial, intermediate, and regional aquifer groundwater wells;

2. conduct scheduled sampling of selected persistent surface water locations including springs;

3. collect water level data;

4. investigate surface water and alluvial groundwater loss in Sandia Canyon.

This WCSF covers the wastes generated by these monitoring activities in Sandia Canyon. A list of existing and planned wells and surface water sampling points to be sampled or measured are identified in Table 2.

Groundwater investigations will be conducted in accordance with the following documents. [The specific procedures under which field activities will be conducted can be found in Appendix C of the IFWGMP (LANL 2006, 92507)]

1. Interim Measures Work Plan for Chromium Contamination in Groundwater (LANL 2006, 91987)
2. Interim Facility-Wide Groundwater Monitoring Plan, Revision 1 (LANL 2006, 92507)
3. 2006 Groundwater Level Monitoring Plan for the Groundwater Level Monitoring Project, (LA UR 06-1688) (LANL 2006, ERID# pending)

**Site History and Description:**

The Sandia Canyon watershed (located in the central part of the Laboratory) is approximately 5.5 sq mi in area. San Ildefonso Pueblo is directly adjacent to a portion of the Laboratory's eastern boundary and includes the eastern end of Sandia Canyon. The head of the canyon is located on the Pajarito Plateau at TA-03. Perennial stream flow and saturated alluvial aquifer conditions occur in the upper and middle portions of the canyon system because of sanitary wastewater and cooling tower discharges to the canyon from operating facilities. A wetland of approximately seven acres has developed in upper Sandia Canyon as a result of the wastewater and cooling tower discharges.

The types of SWMUs and AOCs that affect the Sandia Canyon watershed vary from industrial outfalls to open-detonation firing sites. The potential sources of contamination in the upper portion of this watershed are attributed to TA-03 and former TA-20. The following contaminants have been detected in upper Sandia Canyon sediments: nitrate, perchlorate, chromium, copper, polychlorinated biphenyls (PCBs) and high explosives (HE).

The primary sources of contamination in the middle portion of the Sandia watershed are attributed to TAs-53, -60, -61, and -72, Los Alamos and Mortandad Canyons. The following contaminants were detected in surface soils: tritium, nitrate, perchlorate, lead, and isotopes of uranium and plutonium.

Lower Sandia Canyon has no known sources of contamination.

**Previous Investigations:**

General

The hydrologic and geochemical conceptual model for contamination in Sandia Canyon is not well constrained at this time because of the relatively small amount of data available for the sediment, alluvial groundwater, and vadose zone beneath the canyon. A significant advancement in the further definition of the nature and extent of contamination in alluvial and intermediate groundwater is anticipated via the installation and monitoring of new alluvial and intermediate-depth perched groundwater monitoring wells. Due to the limited coverage of alluvial, intermediate and regional aquifer groundwater wells in the Sandia watershed, results of surface soil and sediment analyses are presented in this WCSF to give an overview of the potential chemicals that may be present in the waters of Sandia Canyon. See Table A-2 in Appendix A of the *Interim Facility-Wide Groundwater Monitoring Plan, Revision 1* (LANL 2006, 92507) for a conceptual model summary of the Sandia Canyon watershed.

Limited EP-WSP groundwater monitoring investigations of the Sandia watershed have been conducted and the analytical results entered into the water quality database (WQDB). These results are reviewed in order to utilize the Notice of Intent (NOI) Decision Tree (Attachment A), still in *draft* form. The NOI Decision Tree dictates the management and regulatory direction of the purged/sampled groundwater by using the existing data from previous investigations as acceptable knowledge.

Surface water samples collected in Sandia Canyon have detected several metals (aluminum, cadmium, copper, mercury, selenium, and zinc), nitrate, perchlorate, and one PCB (Aroclor-1260). Sandia Spring has been sampled with no contaminants exceeding regulatory standards. Sandia Spring, the only spring located in the Sandia Canyon watershed, is presented in the White Rock Canyon section of the IFWGMP and will be incorporated in the associated groundwater monitoring WCSF written for White Rock Canyon.

No analytical results from alluvial groundwater currently exists in the WQDB for the Sandia Canyon watershed.

Sampling of both the intermediate and regional groundwater in Sandia Canyon has resulted in detects of trace intermittent organics, occasional perchlorate, HE, metals (iron, lead, manganese, nickel, and selenium), radionuclides above background levels including uranium-234/235/238, gross beta and tritium.

Chrome Investigations (under the Interim Measures Work Plan for Chromium Contamination in Groudwater (LANL 2006, 91987)

A review of solid waste management units (SWMUs) and areas of concern (AOCs) in Los Alamos, Sandia, and Mortandad Canyons was conducted to identify the potential source(s) of chromium. Knowledge of previous operations at the Laboratory and groundwater flow paths supports a focus on these three watersheds as likely sources. The likely sources are related to usage of chromate-containing compounds as a corrosion inhibitor in cooling-tower systems that discharged to each of the three watersheds. Available information indicates that the usage of chromates for this purpose ceased in the early 1970s. Records also indicate that Sandia Canyon received the largest mass of chromium (LANL 2006, 91987, p.2).

**Anticipated Contaminants**

The primary chemicals of potential concern (COPCs) identified from previous sediment, surface soil, and surface water investigations are: nitrate, perchlorate, trace organics (volatile, semi-volatile and PCBs), HE, several metals (aluminium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, zinc), and miscellaneous radionuclides (gross beta, tritium, isotopes of uranium and plutonium).

PCBs have not been detected in groundwater analyses.

**References**

LANL (Los Alamos National Laboratory), June 30, 2005. “Groundwater Background Investigation Report,” Los Alamos National Laboratory document LA-UR-05-2295, Los Alamos, New Mexico. (LANL 2005, 90580)

LANL (Los Alamos National Laboratory), March 31, 2006. “Interim Measures Work Plan for Chromium Contamination in Groundwater,” Los Alamos National Laboratory document LA-UR-06-1961, Los Alamos, New Mexico. (LANL 2006, 91987)

LANL (Los Alamos National Laboratory), April 2006. "Interim Facility-Wide Groundwater Monitoring Plan, Revision 1," Los Alamos National Laboratory document LA-UR-06-2888, Los Alamos, New Mexico. (LANL 2006, 92507)

NMED (New Mexico Environment Department), December 29, 2005. "Interim Measures Work Plan Requirement, Groundwater Contaminants Detected in the Regional Aquifer at R-28," Los Alamos National Laboratory, EPA NM0890010515, HWB-LANL-GW-MISC, New Mexico Environment Department letter to M. Johansen and D. McInroy from J. Bearzi, Santa Fe, New Mexico. (NMED 2005, 91683)

**Characterization Strategy:**

Five waste streams are anticipated from the proposed investigation activities (see Characterization Table 1):

1. Purge water
2. Surface water samples
3. "Contact Waste"
4. Decontamination fluids
5. Returned groundwater samples

**Waste # 1: Purge Water** will be produced from wells prior to and during sampling to assure that representative groundwater monitoring samples are collected. All efforts will be made to minimize this waste stream.

**Anticipated Regulatory Status:**

The possible classifications of this liquid waste stream and their anticipated regulatory status include:

- water suitable for land application under the NOI Decision Tree
- non-hazardous, non-radioactive waste
- low-level radioactive waste
- hazardous waste
- mixed low-level waste (MLLW)
- high explosive contaminated waste

**Characterization Approach:**

All purge water from both existing and new wells will be managed in accordance with the NOI Decision Tree (Revision 6/12/06) (Attachment A), pending approval by the NMED Ground Water Quality Bureau. Existing or new groundwater data will be used to complete the NOI Decision Tree. In addition to the data review required for the NOI Decision Tree, radionuclide data will be reviewed and compared to

groundwater background levels (LANL 2005, 90580) to complete a radioactive waste determination. Groundwater data may be reviewed at least annually for waste determinations, or at the time of waste profile renewals.

Existing groundwater data (Decision Point: D1 of the NOI Decision Tree) are first subjected to an evaluation by SWRC for a hazardous waste determination (Decision Point: D2). If the data show the water to be non-hazardous then the water can be evaluated against the land application criteria.

If existing groundwater data from a well meet the land application criteria (Decision Point: D3) in the NOI Decision Tree, then the Laboratory can proceed with the land application of purge water from this well without coordination with the NMED; land application must be conducted in accordance with the terms and conditions of the Hydrogeologic Work Plan NOIs dated July 16, 2002 and August 2, 2001 (Attachment B). Specifically, land application

(1) will be monitored routinely during the operation,

(2) will not cause run-off into a water course,

(3) will not cause ponding or run-off to occur.

If the existing data are highly variable and/or contain analytical outliers then the purge water will be characterized by review of multiple data sources, such as analytical results from the associated groundwater monitoring samples (acceptable knowledge), by analyzing a representative sample of the purge water (direct sample), or a combination of both. If it is determined that the purge water is non-hazardous, but cannot meet the criteria for land application then the water will be evaluated for treatment and disposal at one of the Laboratory's six wastewater treatment facilities (Decision Point D4).

If no groundwater data is available (for example a new well), then purge water will be containerized during sampling until a review of pending analytical results and completion of the NOI Decision Tree process.

The particular analyses that will be used to characterize purge waters from wells in Sandia Canyon are listed in the characterization table (Table 1). The analytical suite is based on Sandia Canyon COPCs and Appendix C of the IFWGMP. If purge water does not meet the criteria for land application in the NOI Decision Tree, then any additional analyses that are needed to determine if a purge water meets the waste acceptance criteria (WAC) of an appropriate disposal facility will be performed (see Table 3).

The results of analyses, along with acceptable knowledge of the sources of constituents identified in the purge water, will be used to determine whether the water is hazardous waste in accordance with 40 CFR 262.11.

**Storage and Disposal Method:**

Between 4,800 and 5,200 gallons of purge water are anticipated to be generated across the Sandia watershed annually. This volume estimate is based on a quarterly monitoring frequency. The higher estimate includes five anticipated new alluvial wells.

Purge water may initially be placed in containers such as drums or tanks and managed conservatively in the appropriate accumulation area, until a complete characterization is achieved with the NOI Decision Tree and/or supporting analytical results. Containers will be stored in an approved waste accumulation area on site at the well of origin or at a centralized location.

At the time of containerization an accumulation log entry will be completed by a field team member or an on-site waste handler who has completed the appropriate training. The accumulation log will include, at a minimum: well site, date, volume of waste stream, field pH, container ID #, name and initials of the field team member or waste handler.

The disposal path or land application determination of a purge water will be based on the NOI Decision Tree. Once a disposal path determination is made (when a purge water fails to meet Decision Point: D3), the waste will be managed in an appropriate storage area and disposed of at an authorized on-site or off-site facility, based on the purge water meeting the facility's WAC.

**Waste # 2: Surface Water** will constitute a waste stream when excess surface water samples are retained or surface water samples are returned from an analysis. The volume of this wastewater stream is anticipated to be small in that there is rarely excess sample retained by the sampler and return samples are also rare.

**Anticipated Regulatory Status**:

The possible classifications of this waste stream and their anticipated regulatory status are similar to the purge water (waste #1).

**Characterization Approach:**

This waste stream has previous analytical data from which standing waste profiles have been prepared. Analytical data from these sampling events will be compared with the active waste profiles and existing analytical to ensure appropriate characterization. Waste Profiles and data are reviewed at least annually.

Due to the possible presence of trace PCBs in the surface waters of this watershed, analytical data associated with each surface water sample will be reviewed and documented prior to sample disposal to confirm compliance with the waste profile form and the WAC.

**Storage and Disposal Method:**

Surface water, historically, has been approved for disposal via the industrial waste line at TA-59 basement to the Radioactive Liquid Waste Collection System (RLWCS) that leads to TA-50-1. Therefore it is not anticipated that any accumulation areas will be required, however, if there is a change in characterization, the wastes will be labeled and managed conservatively in an appropriate accumulation area prior to disposal at an authorized facility.

**Waste # 3: Contact Waste** includes personal protective equipment (PPE) (nitrile gloves), dry decontamination towels (paper towels), bailers, plastic or glass bottles, tygon tubing, discharge hoses, and other solid waste that comes into contact with potentially contaminated environmental media.

**Anticipated Regulatory Status:**

Solid, non-hazardous, non-radioactive waste; low-level radioactive waste; hazardous waste; mixed low-level waste, or Green is Clean.

**Characterization Approach:**

All contact waste will be characterized based on review of analytical data from associated purge/sample waters identified in Waste #1 and #2.

**Storage and Disposal Method:**

"Contact waste" from waters that are NOI approved to land apply, or are non-hazardous/non-radioactive, will be disposed of via an approved Waste Profile Form, as municipal solid waste.

Contact waste will be containerized at wells that lack existing groundwater data and where the purge water is therefore containerized pending characterization. If the NOI Decision Tree process results in a land application of purge water on-site, the contact waste would be disposed of as municipal solid waste via an approved Waste Profile Form.

Contact waste from wells pending characterization will be containerized at the well site or consolidated at a centralized location and segregated by suspected waste type. Contact waste will be bagged (ziplock) and labeled with the well or site identification, date, and field team leader name or contact. Storage and disposal method will be contingent on associated water data results.

At wells with a suspected radioactive waste determination compactable (e.g., gloves, paper towels, plastic and glass bottles, etc.) and non-compactable (e.g., stainless steel bailers) contact waste will be segregated from each other.

At the time of containerization an accumulation log entry will be completed by a field team member or an on-site waste handler who has completed the appropriate training. The accumulation log will include, at a minimum: sample site (well or surface water), date, volume of waste stream, container ID #, name and initials of the field team member or waste handler.

Note: The Green is Clean (GIC) program will be used as appropriate for contact waste generated in radiological control areas (RCAs) and that have not been radiologically contaminated. GIC waste will be actively segregated as "clean" (non-radioactive) and documented through the use of waste generator acceptable knowledge (AK). The GIC program can only be used in areas where tritium is not a COPC. Due to detections of tritium above background in some Sandia Canyon groundwaters, the GIC program may rarely be used in this watershed. Groundwater and surface water monitoring in RCAs is rarely, if ever anticipated for this watershed.

At sites where tritium is not a COPC and GIC program applies, excessively muddy or dirty contact waste along with glass containers would be segregated from the cleaner contact waste. The later would be a candidate for the GIC program. Once a non-hazardous, non-radioactive characterization determination is made for Waste Stream #1 and #2 generated in an RCA, the associated contact waste would be acceptable for the GIC program. Any waste that fails the GIC screening process would be disposed of at TA-54 Area G, if it is low-level radioactive only.

**Waste # 4: Decontamination Fluids** will consist of de-ionized water from decontamination activities including rinse waters. All efforts will be made to minimize this waste stream. Consistent with waste minimization practices, the Laboratory employs dry decontamination methods to the extent possible. If dry decontamination cannot be performed, liquid decontamination wastes will be collected in containers at the point of generation.

**Anticipated Regulatory Status:**

Non-hazardous, non-radioactive; low-level radioactive; hazardous; or mixed low-level waste.

**Characterization Approach:**

All decontamination fluids will be characterized based on review of analytical data from associated purge/sample waters identified in Waste #1 and #2.

**Storage and Disposal Method:**

Decontamination fluids from sampling purge waters that meet the NOI Decision Tree to land apply, or are non-hazardous and non-radioactive, will be land applied.

At wells where the purge water is containerized, the decontamination fluids will be containerized separately from the purge water.

At the time of containerization an accumulation log entry will be completed by a field team member or an on-site waste handler who has completed the appropriate training. The accumulation log will include, at a minimum: sample site (well or surface water), date, volume of waste stream, container ID #, name and initials of the field team member or waste handler.

Decontamination fluids from wells pending characterization will be containerized at the well site or consolidated at a centralized location and segregated by suspected waste type. Decontamination fluids will be contained and labeled with the well or site identification, date, and field team leader name or contact. Storage and disposal method will be contingent on associated water data results.

**Waste # 5**: Returned Samples will constitute a waste stream when groundwater samples are returned from an analysis. The volume of this waste water stream is anticipated to be small in that there is rarely returned samples.

**Anticipated Regulatory Status:** The possible classifications of this waste stream and their anticipated regulatory status will be based on the levels of contamination observed in the purge water (waste #1).

**Characterization Approach:**

All returned samples will be characterized based on review of analytical data from associated purge waters identified in Waste #1.

**Storage and Disposal Method:**

Returned samples from wells pending characterization will be containerized at the well site or consolidated at a centralized location and segregated by suspected waste type. Returned samples will be contained and labeled with the sample ID#, well, or site identification, date, and field team leader name or contact on the container. Storage and disposal method will be contingent on associated water data results.

Returned samples will be identified and segregated. If the sample has been altered (e.g., via preservatives, additives, etc.), this change is to be noted on the sample container. If a sample has not been altered, it may be consolidated with the associated purge water.

At the time of containerization an accumulation log entry will be completed by a field team member or an on-site waste handler who has completed the appropriate training. The accumulation log will include, at a minimum: well site, date, volume of waste stream, sample pH, container ID #, name and initials of the field team member or waste handler.

**Table 1. Waste Characterization Table**

| Waste Description | Waste # 1<br>Purge Water | Waste # 2<br>Surface Water | Waste # 3<br>Contact IDW | Waste # 4<br>Decon Water | Waste # 5<br>Return Samples |
|---|---|---|---|---|---|
| Volume | **5,200 gallons.** | **<55 gallons** | **110 gallons.** | **55 gallons** | **<55 gallons** |
| Packaging | Containers or tanks | **55-gal. container** | **55-gal. container** | **55-gal. container** | **55-gal. container** |
| Regulatory classification: | | | | | |
| Radioactive | **X** | **X** | **X** | **X** | **X** |
| Solid | **X** | **X** | **X** | **X** | **X** |
| Hazardous | **X** | **X** | **X** | **X** | **X** |
| Mixed (hazardous and radioactive) | **X** | **X** | **X** | **X** | **X** |
| Toxic Substances Control Act (TSCA) | | | | | |
| New Mexico Special Waste | | | | | |
| Industrial | | | | | |
| Characterization Method | | | | | |
| Acceptable knowledge (AK):<br>Existing Data/Documentation | **X** | **X** | **X[7]** | **X[7]** | **X[7]** |
| AK: Site Characterization (associated water monitoring sample) | **X** | **X** | **X[7]** | **X[7]** | **X[7]** |
| Direct Sampling of Containerized Waste | **As Needed** | **As Needed** | | **As Needed** | **As Needed** |
| Analytical Testing | | | | | |
| Volatile Organic Compounds (EPA 8260-B) | **X[1,2,3]** | **X[1]** | | | |
| Semivolatile Organic Compounds (EPA 8270-C) | **X[1,2,3]** | **X[1]** | | | |
| Organic Pesticides (EPA 8081-A) | **X[1]** | **X[1]** | | | |
| Organic Herbicides (EPA 8151-A) | **X or AK** | | | | |
| PCBs (EPA 8082) | **X[1,3]** | **X[1]** | | | |
| Total Metals (EPA 6010-B/7471-A) + Cyanide & Mo | **X[1,2,3]** | **X[1]** | | | |
| Total Cyanide (EPA 9012-A)[5] | See total metals | See total metals | | | |
| High Explosives Constituents (EPA 8330/8321-A) | **X[1,2,3]** | **X[1]** | | | |
| Asbestos | | | | | |
| Total petroleum hydrocarbon (TPH)-GRO (EPA 8015-M) | | | | | |
| TPH-DRO (EPA 8015-M) | | | | | |
| Toxicity characteristic leaching procedure (TCLP) Metals (EPA 1311/6010-B) | | | | | |
| TCLP Organics (EPA 1311/8260-B & 1311/8270-C) | | | | | |

Table 1. (continued)

| Waste Description | Waste # 1<br>Purge Water | Waste # 2<br>Surface Water | Waste # 3<br>Contact IDW | Waste # 4<br>Decon Water | Waste # 5<br>Return Samples |
|---|---|---|---|---|---|
| TCLP Pest. & Herb. (EPA 1311/8081-A/1311/8151-A) | | | | | |
| Gross Alpha (alpha counting) (EPA 900) | **X**[1,2,3,6] | **X**[1] | | | |
| Gross Beta (beta counting) (EPA 900) | **X**[1,2,3,6] | **X**[1] | | | |
| Tritium (liquid scintillation) (EPA 906.0) | **X**[1,2,3,6] | **X**[1,2,3,6] | | | |
| Gamma spectroscopy (EPA 901.1) | | | | | |
| Isotopic plutonium (Chem. Separation/alpha spec.) (HASL-300) | **AK**[6] | | | | |
| Isotopic uranium (Chem. Separation/alpha spec.) (HASL-300) | **X**[1, 2,3,6] | **X**[1] | | | |
| Total uranium (6020 inductively coupled plasma mass spectroscopy [ICPMS]) | | | | | |
| Strontium-90 (EPA 905) | **X**[1,2,3,6] | **X**[1] | | | |
| Americium-241 (Chem. Separation/alpha spec.) (HASL-300) | | | | | |
| Isotopic thorium | | | | | |

[1] Analyses specified for Sandia Canyon wells in Table 3.3-1 of the IFWGMP.

[2] IFWGMP Appendix C Investigation Derived Waste Management analyses.

[3] MLLW WAC analyses from Table 3

[4] Cyanide and molybdenum are additional target analytes for the Mortandad watershed.

[5] IFWGMP Appendix C specified EPA analytical method 335.3, which is analogous to EPA 9012-A.

[6] Gross radionuclide and AK (such as existing data) or isotopic analyses can be used to determine waste characterization. In lieu of AK, isotopic analyses are recommended to verify detected gross radioactivity, and to identify and quantify radionuclides present in a waste stream.

[7] Based on existing data from Wastes #1 and #2.

**SUPPLEMENTAL TABLE to TABLE 1: ADDITIONAL ANALYSES:**

| Waste Description | Waste # 1<br>Purge Water | Waste # 2<br>Surface Water | Waste # 3<br>Contact IDW | Waste # 4<br>Decon Water | Waste # 5<br>Return Samples |
|---|---|---|---|---|---|
| Perchlorate (EPA 314.1) | **X**[8,9,10] | **X**[8] | | | |
| General Inorganics (Br, Cl, Nitrate, TSS, etc.) (EPA 150.1, 160.1, 300, etc.) | **X**[8,9,10] | **X**[8] | | | |
| Dioxins/Furans (EPA 8290 or 1613B) | | | | | |
| pH (EPA 150.1) | **X**[8,10] | **X**[8] | | | |
| Nitrate (EPA 353.1) | **X**[8,9,10] | | | | |
| Total Sulfur | **AK**[10] | | | | |
| Ignitability | **AK**[10] | | | | |
| BTU value | **AK**[10] | | | | |
| Water content | **AK**[10] | | | | |
| Ash content | **AK**[10] | | | | |

[8] Analyses specified for Sandia Canyon wells in Table 3.3-1 of the IFWGMP.

[9] IFWGMP Appendix C Investigation Derived Waste Management analyses.

[10] MLLW WAC analyses from Table 3.

**Additional Analytical Information:**

Standard analytical turn around time is anticipated to be 30 calendar days. In the event a waste is suspected to be hazardous, the total waste volume exceeds 55 gallons (e.g., purge water, decontamination fluids and contact waste), and a <90-day Accumulation Area is required, then an expedited analytical turn around time will be needed to meet the 90-day time limit. Water Stewardship sample support will be notified, if an expedited analysis is necessary. Utah-certified analytical laboratory data is recommended to meet the MLLW WAC for waste streams that are suspected to be hazardous and low-level radioactive.

**Table 2. Sandia Watershed IFWGMP Wells to be Sampled/Measured**

| Well Name | General Location or Canyon | Water Body | To Be Sampled | Water Measurements Only | Purge Water Volume to Contain (gal.) | Containerize?1 |
|---|---|---|---|---|---|---|
| R-10 | Sandia | Regional | Yes | | 340 e | Yes |
| R-10a | Sandia | Regional | Yes | | 333 | Yes |
| R-11 | Sandia | Regional | Yes | | 315 e | Yes |
| R-12 | Sandia | Inter./Reg. | Yes | | Westbay 10 e | Yes |
| SCA-1 2 | Sandia | Alluvial | Yes | | New 15e | Yes |
| SCA-2 2 | Sandia | Alluvial | Yes | | New 15e | Yes |
| SCA-3 2 | Sandia | Alluvial | Yes | | New 15e | Yes |
| SCA-4 2 | Sandia | Alluvial | Yes | | New 15e | Yes |
| SCA-5 2 | Sandia | Alluvial | Yes | | New 15e | Yes |
| SCO-1 | Sandia | Alluvial | Yes | | Dry | Yes |
| SCO-2 | Sandia | Alluvial | Yes | | Dry | Yes |
| E122 | So. Fork Sandia | Base Flow | No | Yes | | Yes |
| E123 | Sandia below wetlands | Base Flow | No | Yes | | Yes |
| Surface water at terminus | Middle Sandia | Base Flow | No | Yes | | Yes |

1. Containerize purge water and associated wastes.
2. Wells pending installation

e = Estimated

**Table 4. Liquid Waste WAC Tests**

| Analytical Tests | TA-16 HEWTF | TA-46 SWWS | TA-50 RLWTF | TA-53 RLWTF | TA-3 SERF | DSSI MLLW |
|---|---|---|---|---|---|---|
| Total Metals | X | X | X | X | | X |
| Boron | X | X | X | | | |
| Chloride | X | | | | | X |
| Cyanide | | X | X | | | |
| Fluoride | | X | X | | | X |
| Molybdenum | | X | | | | |
| Perchlorate | X | | X | | | |
| Phosphorus | | X | | | | |
| PCB | | X | X | X | | X |
| Ammonia-Nitrogen | | X | X | | | |
| Nitrate-Nitrogen | | X | X | | | |
| VOCs | X[1] | X | X | X | | X |
| Semi-VOCs | X | X | X | X | | X |
| Total Toxic Organics (Methods 624, 625A,625B) | | X | X | | | |
| pH | X | X | X | | | X |
| COD | X | X | X | | | |
| TDS | | X | X | X | | |
| TSS | | X | X | X | | X |
| Microtox (KSL must perform) | | X | | | | |
| HE | X | | | | | |
| **Radioassay** | | | | | | |
| Gross Alpha | X | X | X | X | | X[2] |
| Gross Beta | X | X | X | X | | X[2] |
| Gamma Spec | X | X | X | X | | [2] |
| Isotopic as determined by Gamma Spec | | | X | X | | [2] |
| Isotopic Pu (α spec) | | | | | | [2] |
| Isotopic U (α spec) | | | | | | [2] |
| American-241 (α spec) | | | | | | [2] |
| H-3 (liquid scintillation) | | | | X | | X[2] |
| Strontium -90 | | | | | | [2] |
| Total Sulfur | | | | | | X |
| Ignitability | | | | | | X |
| BTU value | | | | | | X |
| Water content | | | | | | X |
| Ash content | | | | | | X |

[1] Must ask for n-butanol and diethyl ether

[2] Radionuclides are to be identified and quantified.

The following is a brief summary of waste acceptance criteria. Refer to the appropriate LANL WAC chapter for complete disclosure of WAC limitations (with the exception of HEWTF).

HEWTF – High Explosives Wastewater Treatment Facility. Only naturally occurring radionuclides are acceptable – No added radioactivity. No hazardous waste.

SWWS – TA-46 Sanitary Waste Water System. Radionuclides must not exceed drinking water limits or background concentrations. No PCBs, DDT, dioxins, pesticides, radioactive or hazardous waste.

RLWTF - TA-50 Radioactive Liquid Waste Treatment Facility. No PCBs, DDT, dioxins, or pesticides. Need WAC Exception Form (WEF) for non-radioactive waste. Must identify and quantify three most predominant alpha, beta, & gamma emitting radionuclides. All radionuclides known must be listed on WPF.

SERF – TA-3 Sanitary Effluent Reclamation Facility WAC is pending. In the interim the SWWS WAC applies.

MLLW - Utah-certified analytical laboratory data is recommended for non-radioactive analyses to meet the MLLW WAC for Permafix (DSSI). No explosives, oxidizers, flammable liquids or TSCA waste. Radionuclides must be identified and quantified. Consult LANL WAC the MLLW Chapter and contact Environmental Programs Waste Services (ENV-WS) to ensure waste meets requirements of the off-site facility.

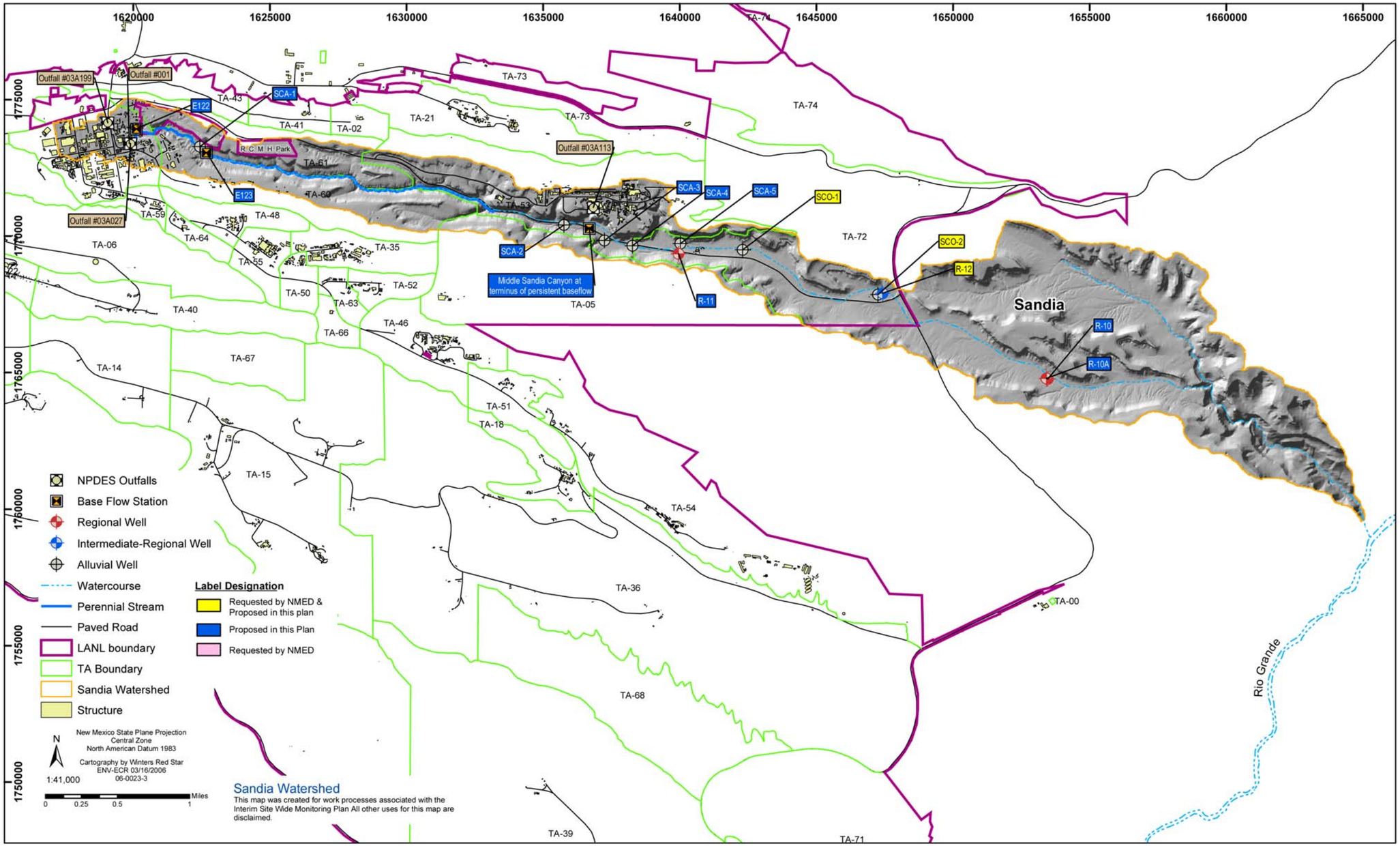



**Figure 1 Sandia Watershed**

**Waste Characterization Strategy Form (continued)**

| SIGNATURES | DATE |
|---|---|
| **Project Leader** (Print name and then sign below.)<br><br>Mike Alexander | |
| **ERS-ECR Waste Management Coordinator** (Print name and then sign below.)<br><br>Leonard Trujillo | |
| **SWRC Representative (**Print name and then sign below.)<br><br>John Tymkowych | |
| **NWIS-SWO Representative** (Print name and then sign below.)<br><br>Andy U. Elicio | |
| | |

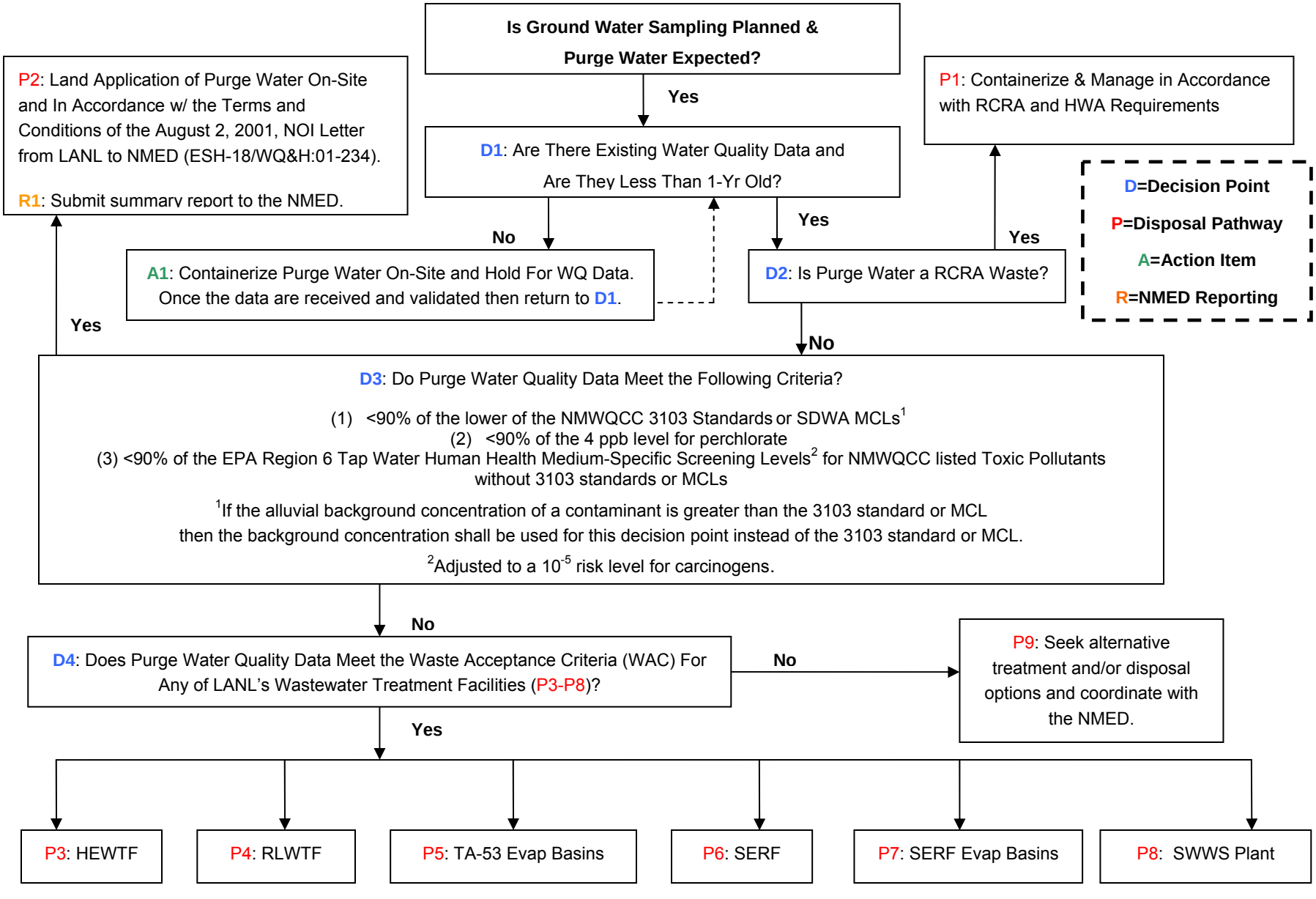
| | |
|---|---|
| SOP-01.10, R2 | **Los Alamos National Laboratory**<br>**ENV-ECR** |

# ATTACHMENT A

## Notice of Intent to Discharge

## Purge Water Decision Tree

**(Revised June 12, 2006 - DRAFT)**


Is Ground Water Sampling Planned & Purge Water Expected?
Yes
D1: Are There Existing Water Quality Data and Are They Less Than 1-Yr Old?
No
Yes
A1: Containerize Purge Water On-Site and Hold For WQ Data. Once the data are received and validated then return to D1.
D2: Is Purge Water a RCRA Waste?
Yes
P1: Containerize & Manage in Accordance with RCRA and HWA Requirements
D=Decision Point
P=Disposal Pathway
A=Action Item
R=NMED Reporting
P2: Land Application of Purge Water On-Site and In Accordance w/ the Terms and Conditions of the August 2, 2001, NOI Letter from LANL to NMED (ESH-18/WQ&H:01-234).
R1: Submit summary report to the NMED.
Yes
No
D3: Do Purge Water Quality Data Meet the Following Criteria?
(1) <90% of the lower of the NMWQCC 3103 Standards or SDWA MCLs[1]
(2) <90% of the 4 ppb level for perchlorate
(3) <90% of the EPA Region 6 Tap Water Human Health Medium-Specific Screening Levels[2] for NMWQCC listed Toxic Pollutants without 3103 standards or MCLs
[1]If the alluvial background concentration of a contaminant is greater than the 3103 standard or MCL then the background concentration shall be used for this decision point instead of the 3103 standard or MCL.
[2]Adjusted to a 10-5 risk level for carcinogens.
No
D4: Does Purge Water Quality Data Meet the Waste Acceptance Criteria (WAC) For Any of LANL's Wastewater Treatment Facilities (P3-P8)?
No
P9: Seek alternative treatment and/or disposal options and coordinate with the NMED.
Yes
P3: HEWTF
P4: RLWTF
P5: TA-53 Evap Basins
P6: SERF
P7: SERF Evap Basins
P8: SWWS Plant

# ATTACHMENT B

## Notices of Intent to Discharge
## Hydrogeologic Workplan Wells

**(June 16, 2002**
**and August 2, 2001)**

Los Alamos
NATIONAL LABORATORY

*Risk Reduction & Environmental Stewardship Division*
*Water Quality & Hydrology Group (RRES-WQH)*
PO Box 1663, MS K497
Los Alamos, New Mexico 87545
(505) 667-7969/Fax: (505) 665-9344

Date: July 16, 2002
Refer to: RRES-WQH: 02-273

Mr. Curt Frischkorn
Pollution Prevention Section
Ground Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, New Mexico 87502

**SUBJECT: NOTICE OF INTENT TO DISCHARGE, HYDROGEOLOGIC WORKPLAN WELLS**

Dear Mr. Frischkorn:

At our July 11, 2002, meeting at your Santa Fe office (Attendees: Mike Saladen (RRES-WQH), Roy Bohn (RRES-R), Bob Beers (RRES-WQH), John Young (NMED-HWB), and Curt Frischkorn (NMED-GWQB)), we reviewed the Notice of Intent to Discharge (NOI) submitted by Los Alamos National Laboratory to your agency on August 2, 2001, for the Hydrogeologic Workplan Wells. In addition to our general review of the NOI, we discussed the Laboratory's immediate need to discharge approximately 50,000 gallons of containerized drilling fluid from Hydrogeologic Workplan Well R-14. I have addressed both of these topics below.

It was my understanding from our July 11th meeting that both you and Mr. Young were satisfied with the Laboratory's NOI for the Hydrogeologic Workplan Wells with the exception of the NOI Decision Tree (Figure 1.0). Per your request, attached is a revised NOI Decision Tree that incorporates a reference to applicable RCRA regulatory limits' into the decision process. In addition, it was also my understanding that your agency would not require a ground water discharge plan for the discharge of drilling fluid, development water, and purge water from Hydrogeologic Workplan Wells as long as all discharges were compliant with the terms and conditions of the NOI.

In addition to our general discussions about the Hydrogeologic Workplan NOI, we discussed the discharge of approximately 50,000 gallons of containerized drilling fluid produced during the drilling of Hydrogeologic Workplan Well R-14. Per your request, please find the following enclosed water quality data and Material Safety Data Sheets (MSDSs) for the drilling fluid produced from R-14.

**Water Quality Data.** Attachment 1.0 contains water quality data (metals, general chemistry, SVOA, VOA, perchlorate, nitrate, and tritium) for the approximately 50,000 gallons of containerized drilling fluid produced during the drilling of R-14. It should be noted that the data table titled, "ER Water Samples" contains analytical results from two samples, GW14-02-46382 and GW14-02-46383, submitted for metals analysis. These samples were collected from the upper and lower portion of the storage tanks, respectively. Both samples were filtered prior to analysis.

The approximately 50,000 gallons of containerized drilling fluid from R-14 is compliant with New Mexico Water Quality Control Commission (NM WQCC) Regulation 3103 ground water standards with the exception of the following three contaminants:

| Contaminant | Max. Result (mg/L) | Min. Result (mg/L) | WQCC ground water standard (mg/L) |
|---|---|---|---|
| Al | 42.0 | 7.69 | 5.0 |
| Fe | 9.25 | 1.51 | 1.0 |
| Mn | 0.36 | 0.13 | 0.2 |

With the exception of acetone, no VOA or SVOA compounds were detected in R-14 drilling fluids. Acetone, detected at 1.6 mg/L, is present as a byproduct of the drilling additives. No perchlorate or tritium were detected in the R-14 drilling fluid at concentrations greater than analytical laboratory's Method Detection Limits (MDLs). Nitrate/nitrite (as N) was detected at 0.56 mg/L.

**MSDS Information.** Attachment 2.0 contains Material Safety Data Sheets (MSDSs) for the drilling fluid additives used in the top 1068 feet of the R-14 borehole including the formulation quantities for each product.

The Laboratory requests your agency's permission to discharge the approximately 50,000 gallons of drilling fluid from R-14 in accordance with the August 2, 2001, NOI. Please call me at (505) 667-6969 or Roy Bohn of the Laboratory's Environmental Restoration Project (RRES-R) at (505) 665-5138 if additional information is required.

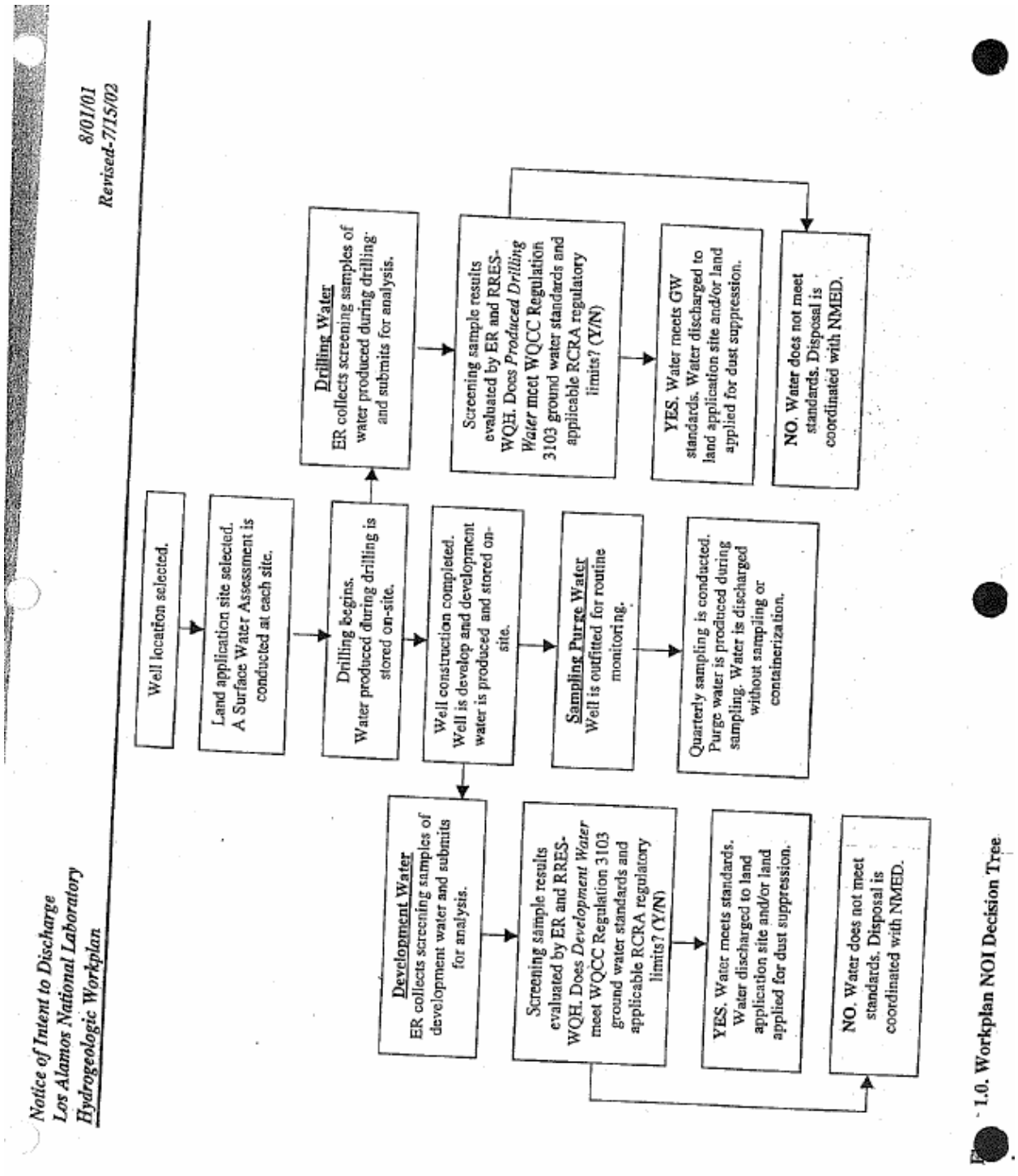
Sincerely,

Bob Beers
Water Quality & Hydrology Group

BB/am

Attachments: a/s

Cy: M. Leavitt, NMED/GWQB, Santa Fe, New Mexico, w/att.
J. Davis, NMED/SWQB, Santa Fe, New Mexico, w/att.
J. Bearzi, NMED/HWB, Santa Fe, New Mexico, w/att.
J. Young, NMED/HWB, Santa Fe, New Mexico, w/att.
J. Vozella, DOE/OLASO, w/att., MS A316
G. Turner, DOE/OLASO, w/att., MS A316
B. Stine, ADO, w/att., MS A104
B. Ramsey, RRES-DO, w/o att., MS J591
K. Hargis, RRES-DO, w/o att., MS J591
D. Stavert, RRES-EP, w/att., MS J978
S. Rae, RRES-WQH, w/att., MS K497
C. Nylander, RRES-DO, w/att., MS K497
D. Rogers, RRES-WQH, w/o att., MS K497
M. Saladen, RRES-WQH, w/att., MS K497
R. Bohn, RRES-R, w/att., MS M992
D. McInroy, RRES-R, w/o att., MS M992
RRES-WQH File, w/att., MS K497
IM-5, w/att., MS A150




1.0. Workplan NOI Decision Tree

Los Alamos
NATIONAL LABORATORY

*Los Alamos National Laboratory*
*Los Alamos, New Mexico 87545*

Date: August 2, 2001
In Reply Refer To: ESH-18/WQ&H:01-234
Mail Stop: K497
Telephone: (505) 665-1859

Mr. John Young
Hazardous Materials Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, New Mexico 87502

Ms. Phyllis Bustamante
Ground Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, New Mexico 87502

**SUBJECT: NOTICE OF INTENT TO DISCHARGE, HYDROGEOLOGIC WORKPLAN WELLS**

Dear Mr. Young and Ms. Bustamante:

Please find the enclosed Notice of Intent to Discharge (NOI) covering the discharge of drilling, development and sample purge water from the proposed regional aquifer wells described under Los Alamos National Laboratory's Hydrogeologic Workplan. This NOI is being submitted for your review and approval pursuant to Section 1201 of the New Mexico Water Quality Control Regulations. Since April, 1996, the Laboratory has submitted nine individual NOI's for each regional aquifer well constructed under the Workplan. As many as 23 additional regional aquifer wells have been proposed for construction over the next four years.

As an alternative to individual NOIs, the Laboratory is proposing that a single NOI be utilized for all discharges from regional aquifer wells constructed under the Workplan. It is the Laboratory's intent to improve coordination and administration of the NOI process for both the NMED and the Laboratory by eliminating the redundancy of individual NOIs for each well.

Thank you for your consideration of this request. Please call Bob Beers of the Laboratory's Water Quality and Hydrology Group at (505) 667-7969 if additional information would be helpful.

Sincerely,

Steven Rae,
Group Leader
Water Quality and Hydrology Group

SR:BB/tml

Enclosures: a/s

Cy: B. Lucas, NMED/SWQB, Santa Fe, New Mexico, w/enc.
S. Yanicak, NMED/DOE/OB, w/enc., MS J993
J. Vozella, DOE/LAAO, w/enc., MS A316
M. Johansen, DOE/LAAO, w/enc., MS A316
D. McInroy, E-ER, w/enc., MS M992
R. Bohn, E-ER, w/enc., MS M992
D. Erickson, ESH-DO, w/enc., MS K491
L. McAtee, ESH-DO, w/enc., MK K491
C. Nylander, ESH-18, w/enc., MS K 497
M. Saladen, ESH-18, w/enc., MS K497
B. Beers, ESH-18, w/enc., MS K497
H. Decker, ESH-18, w/enc., MS K497
WQ&H File, w/enc., MS K497
IM-5, w/enc., MS A150

*Notice of Intent to Discharge*
*Los Alamos National Laboratory*
*Hydrogeologic Workplan*

## NOTICE OF INTENT TO DISCHARGE
## WATER PRODUCED DURING THE INSTALLATION AND MONITORING OF HYDROGEOLOGIC WORKPLAN WELLS

**Introduction**

In March 1998, NMED approved a comprehensive hydrogeologic characterization work plan for Los Alamos National Laboratory (Laboratory). The Hydrogeologic Workplan (LANL 1998) proposes a multiyear drilling and hydrogeologic analysis program to characterize the Pajarito Plateau and to assess the potential for groundwater contamination from waste disposal operations. The goal of the project is to develop greater understanding of the geology, groundwater flow, and geochemistry beneath the 43-square-mile Laboratory area and to assess any impacts that Laboratory activities may have had on groundwater quality. The Hydrogeologic Workplan (Workplan) will result in an enhanced understanding of the Laboratory's groundwater setting and an improved ability to ensure adequate groundwater monitoring. The centerpiece of the Workplan is the proposed installation of as many as 32 regional aquifer wells.

Beginning with well R-9 in April 1996, the Laboratory has submitted a Notice of Intent to Discharge (NOI) for each Workplan well prior to installation. Table 1.0 below presents a summary of the wells completed to date, the date that the NOI was submitted for each well, and the ESH-18 file number for each respective NOI.

**Table 1.0. Completed Hydrogeologic Workplan Wells.**

| Well Name | Completion Date | Watershed | Type of Well | Date of NOI | NOI File No. |
|---|---|---|---|---|---|
| R-25 | Feb-99 | Water/Valle | regional | 7/7/98 | 98-0227 |
| R-9 | Sept-99 | LA/Pueblo | regional | 4/3/96 | 96-0189 |
| R-15 | Sept-99 | Mortandad | regional | 6/25/99 | 99-0245 |
| R-12 | Jan-00 | Sandia | regional | 3/27/98 | 98-0106 |
| R-31 | Feb-00 | Ancho | regional | 5/18/99 | 99-0165 |
| R-19 | Mar-00 | Pajarito | regional | 1/25/00 | 00-0019 |
| R-22 | Dec-00 | Pajarito | regional | 12/12/00 | 00-0412 |
| R-7 | Mar-01 | LA/Pueblo | regional | 2/29/00 | 00-0063 |
| R-5 | June-01 | Pueblo | regional | 4/10/01 | 01-0112 |

For the remaining Workplan wells, the Laboratory proposes to utilize a single, Generic NOI. That is, in lieu of submitting individuals NOIs for each well, as was previously conducted, this NOI is being submitted to comprehensively cover all discharges from regional aquifer wells constructed under the Workplan. It is currently estimated that R-well construction will be completed by 2005.

*Notice of Intent to Discharge*
*Los Alamos National Laboratory*
*Hydrogeologic Workplan*

1. **Name and address of facility making the discharge.**
Los Alamos National Laboratory
P.O. Box 1663
Los Alamos, New Mexico 87545

2. **Location of the discharge.**
See attached Map 1.0 for the location of all completed and proposed Hydrogeologic Workplan (Workplan) wells. As prescribed in Standard Operating Procedure (SOP) 2.01, *Surface Water Assessment/Erosion Matrix*, the land application area will be located on the generally flat canyon bottom outside of the active channel. An assessment will be conducted at each proposed land application site prior to discharge.

3. **The means of discharge. (to Lagoon, Flowing stream, Water course, Arroyo, Septic tank, other).**
All water produced during the drilling and development of Workplan wells will be containerized, sampled, and evaluated for compliance with NM WQCC Regulation 3103 ground water standards before any discharge occurs. See attached Figure 1.0, *Workplan NOI Decision Tree*, for further information on the sequence of activities conducted prior to a discharge of water to the environment.

Once it has been confirmed by the ER Project and ESH-18 that the containerized water is compliant with NM WQCC Regulation 3103 ground water standards then the water will be either (1) applied to the surface of the land in the vicinity of the well, or (2) applied to the well site or access roads for dust suppression. Land application will be conducted using the following means:

1. Aluminum piping with sprinkler heads will serve as the conduit for the discharge. A typical installation will consist of two separate piping runs, each approximately 250 feet long with 5 sprinkler heads on each run. Piping runs will be situated to prevent any overlap of spray. Sprinkler heads will be adjusted to maximize evaporation.

2. Each sprinkler head has a discharge rate of approximately 16 gallons per minute; ten sprinkler heads will discharge approximately 160 gallons per minute. Therefore, a typical system would have a design capacity of approximately 9,600 gallons per hour, weather and soil conditions permitting.

3. Land application will be conducted for 8 to 10 hours a day. The discharge will be monitored routinely during the hours of operation to (1) ensure that no ponding or run-off is occurring, (2) to inspect any BMP's installed on the application site, and (3) to inspect for leaks in the system or malfunctioning sprinkler heads.

4. If at any time the land application site shows signs of ponding or run-off, all discharge operations will be immediately halted. The site will be evaluated for the need of any additional BMP's and the discharge will not start again until the site has returned to an appropriate condition (i.e., no standing water or visible run-off).

The alternative method of land application is for dust suppression at the drilling site and on access roads serving the drilling site. A water truck will apply water used for dust suppression. A second alternate means of disposal would be discharge to one of the Laboratory's three wastewater treatment facilities (High Explosive Wastewater Treatment Facility, Sanitary Wastewater Systems Facility, Radioactive Liquid Wastewater Treatment Facility) if the quality of the water meets the treatment facility's Waste Acceptance Criteria (WAC) and the treatment facility has adequate capacity available.

4. **The estimated concentration of contaminants (if any) in the discharge.**
The concentrations of contaminants in the discharge are expected to be equivalent to the concentrations of contaminants in the aquifer(s) penetrated during installation of the borehole. The quality of groundwater beneath the Laboratory is characterized and documented annually in the Laboratory's *Environmental Surveillance Report*. The *Environmental Surveillance Report* for 1999 is available on the World Wide Web at the following address: http://lib-www.lanl.gov/pubs/la-13775.htm. The *Environmental Surveillance Report* for 2000 is scheduled for release in October 2001.

In addition to the extensive characterization data available from the annual *Environmental Surveillance Reports*, each new Workplan well will also be sampled for specific contaminants of concern. Analyte lists will be prepared on a well-by-well basis. As identified in Figure 1.0, these results will be used to determine compliance with NM WQCC Regulation 3103 ground water standards prior to the commencement of land application. Analytical results will be submitted to the NMED as soon as they are available for release.

5. **The type of operation from which the discharge is derived**
All of the wells referenced in this NOI are part of the Hydrogeologic Characterization Program undertaken by Los Alamos National Laboratory in order to better understand the geologic and hydrologic characteristics of the regional aquifer, intermediate perched zones, and intercalated unsaturated zones at the Laboratory. The discharges from each well are produced from the following three sources:

1. **Drilling Water.** During well drilling, water is produced from two sources:
   - Small quantities of drilling additives (e.g., EZ Mud™, Quick Foam™) are mixed with potable water and used during the drilling process to improve efficiency. Material Safety Data Sheets (MSDS) are available for these products upon request.
   - Groundwater (alluvial, intermediate, and regional) encountered as the borehole penetrates water-bearing strata.

   Between 20,000 and 125,000 gallons of drilling water will be produced during the drilling of each Workplan regional aquifer well.

In addition to above drilling additives, there is the possibility that drilling mud may be used in the construction of certain Workplan wells. Drilling mud, such as Quick-Gel™, is commonly used during the drilling of wells to: (1) lift cuttings out of the hole, (2) cool the drill bit, and (3) support the walls of the borehole in unconsolidated formations. Drilling fluids containing drilling mud will be isolated in a designated holding tank where the solids will be settled and the water can be decanted. Settled solids will be disposed of at an approved disposal site. Decanted water will be sampled and land applied if compliant with NM WQCC Regulation 3103, Ground Water Standards.

2. **Development Water.** Following well construction, the well is developed to remove any fine material that may be blocking the wells screens or ports. This water is essentially ground water with the potential for small, deminimus, quantities of drilling additives. Between 20,000 and 125,000 gallons of well development water will be produced during the drilling of each Workplan regional aquifer well.

3. **Sampling Purge Water.** Once well construction is complete, each well will be routinely sampled. During sample collection it is necessary to purge the well prior to collecting a sample to ensure that the water sampled is representative of the ground water in the aquifer. Between 100 and 1,500 gallons of water will be produced during each sampling event. Since the volumes of sampling purge water are small and the source is exclusively ground water, it will be directly discharged to the land surface without sampling or containerization. In addition, no sprinkler system will be used during the discharge of sampling purge water. All discharges will be directed away from any surface water.

6. **The estimated flow to be discharged per day.**
The daily discharge volumes from the land application of drilling and well development water are estimated to be as much as 96,000 gallons per day. Routine well sampling is expected to generate as much as 1,500 gallons of purge water per sampling event. Daily discharge volumes are dependent on the capacity of the soil, weather conditions, and equipment considerations.

7. **The estimated depth to Groundwater.** Depth to the regional aquifer varies from 700 to 1200 feet.

Signed: _____ Date: Aug 2, 2001
Steven Rae, Group Leader, ESH-18

Signed: _____ Date: 8/2/01
Julie Canepa, Program Manager, ER Project

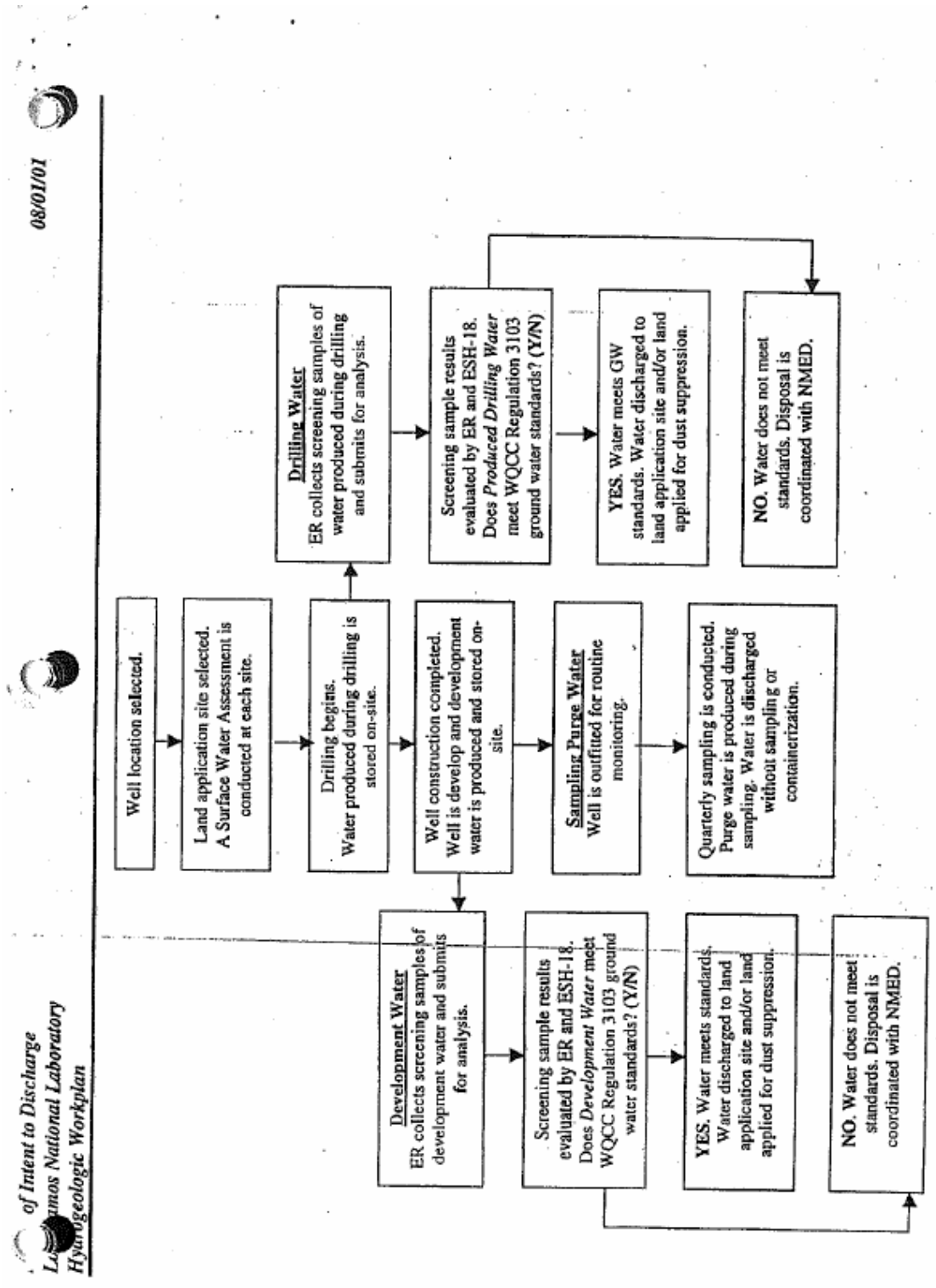



Figure 1.0. Workplan NOI Decision Tree

# Appendix G

*Analytical Reports*
*(See also enclosed DVD)*

## Sandia Watershed Sampling October 10-October 18, 2006, DVD Table of Contents

| Request | Suite | Sample | Collection Date | Location |
|---|---|---|---|---|
| 173943 | GENINORG | GF061000G11R01 | 10/10/2006 | R-11 |
| 173943 | GENINORG | GF061000G11R90 | 10/10/2006 | R-11 |
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| 173943 | SVOA | GU061000G11R90 | 10/10/2006 | R-11 |
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| 173943 | VOA | GU061000G11R01-FTB | 10/10/2006 | R-11 |
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| 174497 | GENINORG | GU061000P12301 | 10/18/2006 | Sandia Below Wetlands |
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| Request | Suite | Sample | Collection Date | Location |
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