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Periodic Monitoring Report for White Rock Watershed, April 20–April 23, 2009

Los Alamos
NATIONAL LABORATORY
EST.1943

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EXECUTIVE SUMMARY

This report provides the results of the periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the White Rock Watershed. The PME was conducted pursuant to the 2008 Interim Facility-Wide Groundwater Monitoring Plan, prepared under the Compliance Order on Consent.

The PME documented in this report occurred from April 20 to April 23, 2009. No surface-water locations were scheduled to be sampled for this PME. Seven springs were sampled as part of this PME. The waters from the springs are generally representative of the regional-aquifer chemistry, although some influence of local recharge is apparent. These springs serve as the groundwater-monitoring locations for this watershed. No groundwater monitoring wells are presently installed in the White Rock Watershed. Unreported results from the previous PME are also included in this PME. These results were not available for inclusion in the previous PME because the data had not been validated.

Water samples collected from various locations during this PME were analyzed for target analyte list metals, volatile organic compounds, semivolatile organic compounds, cyanide, pesticides, polychlorinated biphenyls, high explosives, radionuclides, low-level tritium, general inorganics, perchlorate, stable isotopes, and field parameters (alkalinity, dissolved oxygen, pH, specific conductance, temperature, and turbidity).

The filtered manganese result at Spring 10 of 762 µg/L was above the New Mexico Water Quality Control Commission groundwater screening level of 200 µg/L. Since 2000, two previous filtered manganese results measured at this location were 358 µg/L and 27 µg/L. There were no previously unreported groundwater results above screening levels to include in this report.

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Acronyms and Abbreviations

AK	acceptable knowledge
amsl	above mean sea level
AOC	area of concern
AQA	Analytical Quality Associates, Inc.
BCG	biota concentration guideline (DOE)
bgs	below ground surface
C	cancer
Consent Order	Compliance Order on Consent
DCGs	Derived Concentration Guidelines (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
F	filtered
HE	high explosives
IDW	investigation-derived waste
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory (the Laboratory)
MCL	maximum contaminant level (EPA)
N	noncancer
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
PCB	polychlorinated biphenyl
PME	periodic monitoring event
PMR	periodic monitoring report

PPE	personal protective equipment
QC	quality control
RCRA	Resource Conservation and Recovery Act
RPF	Records Processing Facility
SOP	standard operating procedure
SWMU	solid waste management unit
TA	technical area
UF	unfiltered
WAC	waste acceptance criteria
WCSF	waste characterization strategy form
WPF	waste profile form

1.0 INTRODUCTION

This report provides documentation of semiannual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the White Rock Watershed pursuant to the 2008 Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) (LANL 2008, 101897), prepared under the Compliance Order on Consent (the Consent Order). This periodic monitoring event (PME) occurred from April 20 to April 23, 2009, and included sampling at seven springs.

The Consent Order identifies New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, including alternative abatement standards and U.S. Environmental Protection Agency (EPA) drinking water maximum contaminant levels (MCLs), as cleanup levels for groundwater when corrective action is implemented. NMWQCC groundwater standards, MCLs, and EPA tap water screening levels are used as screening levels for monitoring data and are provided in this report.

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 the PME results with regulatory standards and results from previous reports)
- a summary 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

The Rio Grande flows from northeast to southwest in the vicinity of the Laboratory and forms a part of the eastern Laboratory boundary. The White Rock Canyon springs are located along the Rio Grande at the eastern border of the Laboratory and on Los Alamos County and San Ildefonso Pueblo lands. The springs serve as monitoring points to detect possible discharges of contaminated groundwater from beneath the Laboratory into the Rio Grande. The White Rock springs are one of the most frequently monitored locations in or next to the Laboratory. Most of the major springs have been sampled regularly since the late 1960s, with some sampled since the early 1950s.

Tritium operations took place at Technical Area 33 (TA-33). The “RFI Work Plan for OU 1122” (LANL 1992, 007671) describes environmental concerns at TA-33. To the north of TA-33 lies TA-70, a buffer area where no Laboratory activities have occurred. Adjoining TA-70 to the north are low- to moderate-density residential areas in White Rock, a mix of private property, and Los Alamos County land. A municipal sanitary treatment plant discharges effluent into Mortandad Canyon just above the river at the northern county boundary. San Ildefonso Pueblo property borders Los Alamos County on the north; this land is undeveloped. San Ildefonso Pueblo operates numerous water-supply wells on both sides of the Rio Grande, and the City of Santa Fe operates the Buckman well field on the east side of the Rio Grande across from White Rock.

1.2 Conceptual Model

The conceptual model for the White Rock Watershed is presented in Appendix A of this document.

2.0 SCOPE OF ACTIVITIES

The PME for the White Rock Watershed was conducted pursuant to the 2008 IFGMP.

Table 2.0-1 provides the location name, sample collection date, and instantaneous stream-flow values for each spring. These locations are shown 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 the PME are documented in the 2008 IFGMP.

3.2 Field Parameter Results

Appendix B contains the field parameter results for this PME and the previous three PMEs.

3.3 Water-Level Observations

No information regarding water-level observations is included in this report because no groundwater monitoring wells are present in White Rock Canyon.

3.4 Deviations from Planned Scope

Table 3.4-1 describes the deviations from the planned scope of the PME.

4.0 ANALYTICAL DATA RESULTS

4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of the PME are documented in the 2008 IFGMP.

All sampling, data reviews, and data package validations were conducted using standard operating procedures (SOPs) that are part of a comprehensive quality assurance program. The quality program and procedures may be viewed at http://www.lanl.gov/environment/all/qa.shtml. Completed chain-of-custody forms serve as an analytical request form and include the requester or owner, sample number, program code, date and time of sample collection, total number of bottles, list of analytes to be measured, bottle sizes, and preservatives for each analysis required.

The required analytical laboratory batch quality control (QC) is defined by the analytical method, the analytical statement of work, and generally accepted laboratory practices. The analytical laboratory assigns qualifiers to the data to indicate the quality of the analytical results. The laboratory batch QC is used in the secondary data validation process to evaluate the quality of individual analytical results, evaluate the appropriateness of the analytical methodologies, and measure the routine performance of the analytical laboratory.

In addition to batch QC performed by laboratories, the Laboratory submitted field QC samples to test the overall sampling and analytical laboratory process and to spot-check for analytical problems. These results are used in secondary validation along with information provided by the analytical laboratory.

After the Laboratory receives the analytical laboratory data packages, the packages receive secondary validation by an independent contractor, Analytical Quality Associates, Inc. (AQA). AQA's reviews follow the guidelines set in the DOE model SOP for data validation, which includes reviewing the data quality and the documentation's correctness and completeness; verifying that holding times were met; and ensuring that analytical laboratory QC measures were applied, documented, and kept within contract requirements. As a result of secondary validation, a second set of qualifiers is assigned to the analytical results.

The Laboratory assigns detection status to the analytical result based on the analytical laboratory and secondary validation qualifiers. A "<" symbol indicates that based on the qualifiers the result was a nondetection.

4.2 Analytical Data

Table D-1 in Appendix D presents previously unreported analytical data. Table D-2 presents the analytical data from this PME and from the last three sampling events immediately before the April 2009 sampling event. The screening levels with which the results are compared are presented in Table 4.2-1. The analytical laboratory reports (including chain-of-custody forms, data validation, etc.) are presented in Appendix G.

Table D-2 contains all data collected during the PME (i.e., all data that have been independently reviewed for conformance with Laboratory requirements), with the following constraints.

- All data
    - ❖ Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered "not detected" but are still reported. Analytical laboratory QC results, including matrix spike and matrix spike duplicates, are not included in the data set.
- Radionuclides
    - ❖ All low-detection-limit tritium data are reported. Results greater than 3 times the 1 standard deviation total propagated analytical uncertainty (or 3σ) are considered to be detections.
    - ❖ 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, cobalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
    - ❖ Otherwise, all detections are reported at all locations, that is, results without a laboratory qualifier of U or X (abbreviations that indicate that the analyte was not detected).
- Nonradionuclides
    - ❖ All results, excluding nondetections, are reported. Field duplicates, reanalyses, field blanks, trip blanks, equipment blanks, and different analytical methods are also reported.

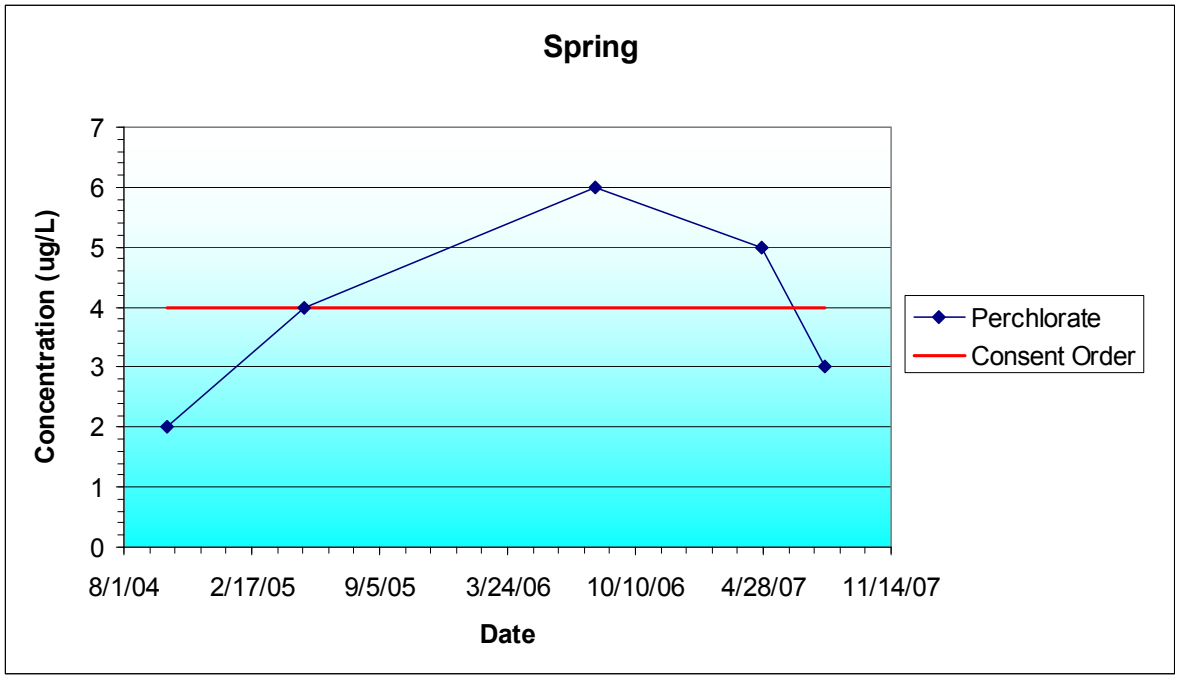
The screening levels applied to all media and their sources are listed in Table 4.2-1.

Data for periodic monitoring reports are evaluated using the following screening process.

- Groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order. The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants.
- As required by the Consent Order, the 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 (excess cancer-risk level of 10^{-5}) or N (noncancer). The Consent Order specifies screening for excess cancer risk at a risk level of 10^{-5} (rather than 10^{-6} as given in the EPA Region 6 tables). Therefore, the EPA Region 6 values were multiplied by 10 to obtain the 10^{-5} excess cancer risk level.
- The analytical results for radioactivity are compared with the DOE Biota Concentration Guide (BCG) for surface water and Derived Concentration Guidelines (DCGs) for groundwater.

Tables E-1 through E-4 (Appendix E) show all values for perchlorate, radioactivity, and organic compounds, and all values greater than half the lowest applicable screening level for metals.

Analytical results are presented graphically in Figure 4.2-1. The figure contains diagrams displaying a series of select analytes. An example of a diagram displaying perchlorate concentration is shown below.



Perchlorate concentrations

The analytes displayed in Figure 4.2-1 were selected from data collected during the PME. Only diagrams for groundwater data are included. The analytes were chosen for display in Figure 4.2-1 because of their historical presence in groundwater in this watershed.

Analytes not shown on the diagrams were either not detected or were radionuclides. When shown, the solid red lines depict applicable screening levels. Some screening levels may exceed the highest

concentration displayed but may not appear on the diagram. Screening-level values are found in Tables E-1 through E-4 in Appendix E.

A summary of the results comparing the groundwater analytical data (including previously unreported data) with screening levels is shown in Tables E-1 through E-4 (Appendix E). Graphical representations of select groundwater analytical results are shown in Figure 4.2-1.

Table 4.2-2 gives the groundwater analytical results (by hydrogeologic zone for a specific analytical suite) that are above a screening level. Multiple detections of a particular constituent at a location are counted as one result. For example, if aluminum is detected above a screening level in both a primary sample and a field duplicate, the detection is counted as one result. Therefore, only the highest result is shown in Table 4.2-2.

4.2.1 Surface Water (Base Flow)

No surface-water locations were scheduled for sampling during this PME.

4.2.2 Groundwater

No previously unreported groundwater results from the previous PMEs are above screening levels.

The filtered manganese result at Spring 10 of 762 µg/L was above the NMWQCC groundwater screening level of 200 µg/L. Two previous filtered results measured since 2000 at this location were 358 µg/L and 27 µg/L.

4.3 Sampling Program Modifications

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

5.0 INVESTIGATION-DERIVED WASTE

Appendix F discusses the management of wastes produced during this PME.

6.0 SUMMARY

6.1 Monitoring Results

An evaluation of the field parameter monitoring results is presented in Appendix B. Results of full parameters in subsequent monitoring events will be provided in the annual update to the IFGMP.

6.2 Analytical Results

6.2.1 Surface Water (Base Flow)

No surface-water locations were scheduled to be sampled during this PME.

6.2.2 Groundwater

One result was measured above screening levels in groundwater samples (Table 4.2-2). The filtered manganese result at Spring 10 was higher than other results since 2000. Otherwise, the types of contaminants detected and their concentrations are consistent with data reported from PMEs in the White Rock Watershed.

6.3 Data Gaps

Table 3.4-1 summarizes the field parameter gaps encountered during this PME. The table provides a detailed account of sampling-event deviations.

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. This information is also included in text citations. ER IDs 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 master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau 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), May 1992. "RFI Work Plan for Operable Unit 1122," Los Alamos National Laboratory document LA-UR-92-925, Los Alamos, New Mexico. (LANL 1992, 007671)

LANL (Los Alamos National Laboratory), May 2008. "Interim Facility-Wide Groundwater Monitoring Plan," Los Alamos National Laboratory document LA-UR-08-3273, Los Alamos, New Mexico. (LANL 2008, 101897)

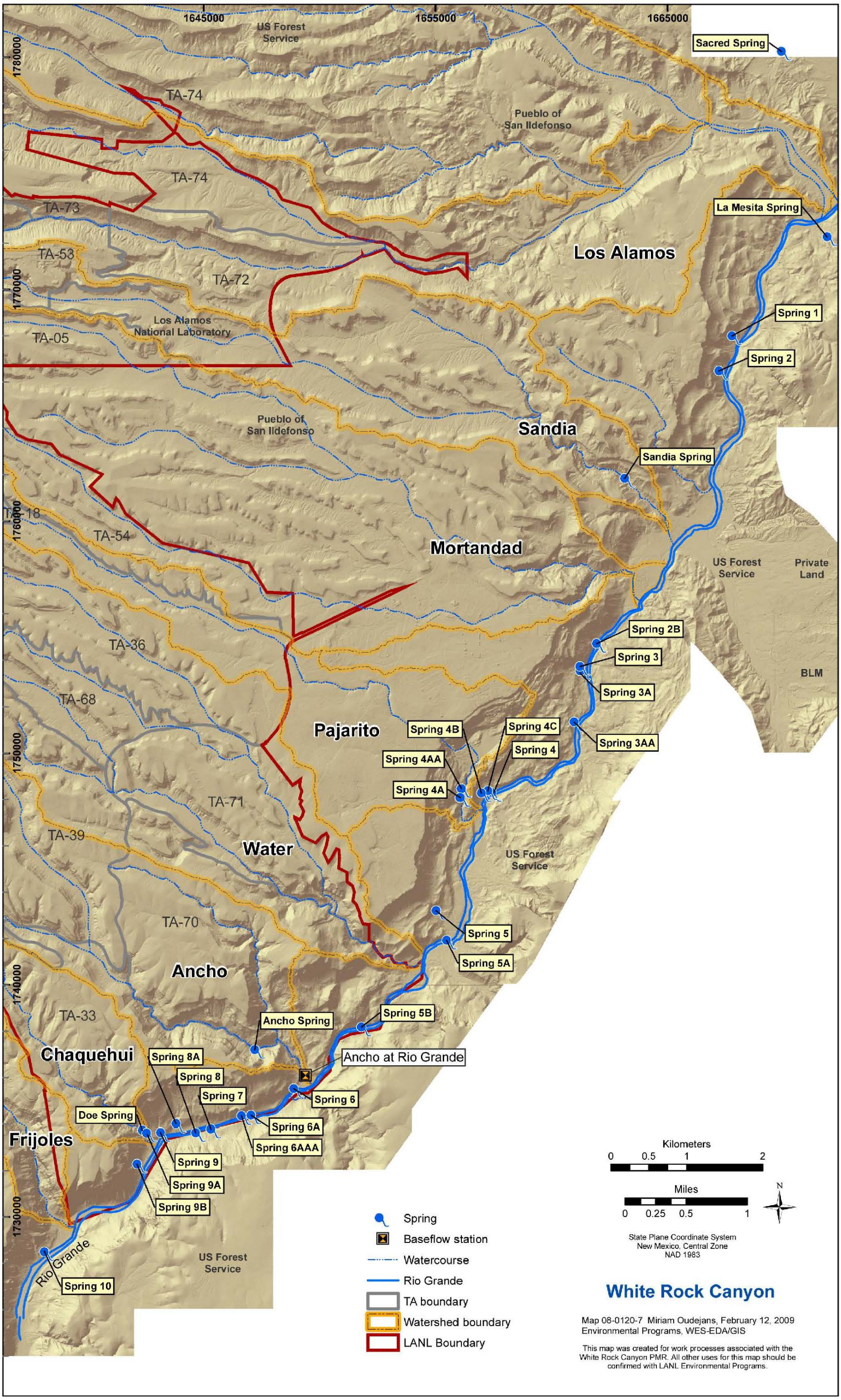


Figure 2.0-1 Watershed monitoring locations

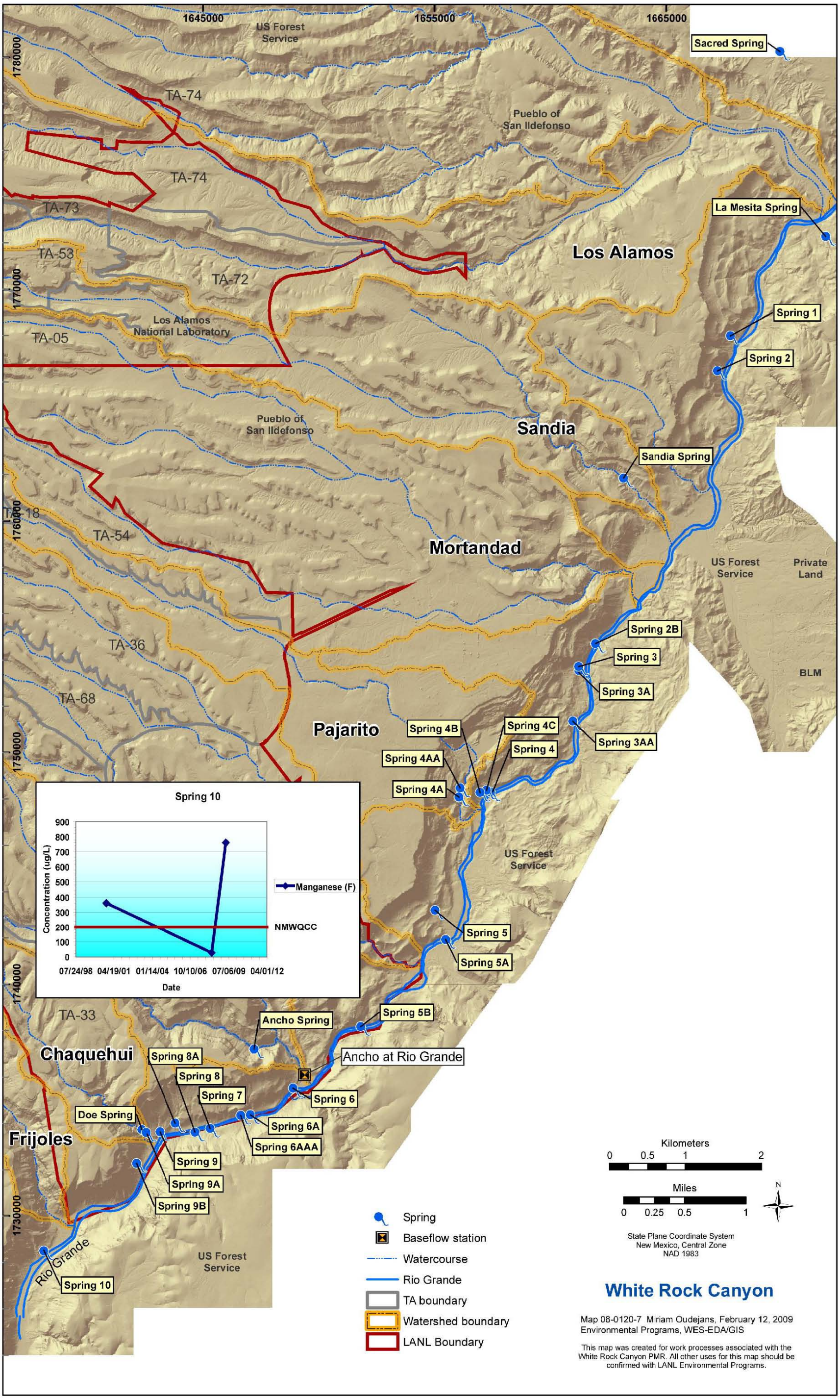


Figure 4.2-1 Analytical results

Table 2.0-1
Monitoring Locations and General Information

Location	Sample Collection Date	Instantaneous Stream Flow (ft^3/s)
Base Flow		
Ancho at Rio Grande	Not scheduled[a]	n/a[b]
Ancho Spring	Not scheduled	n/a
Frijoles at Rio Grande	Not scheduled	n/a
La Mesita Spring	Not scheduled	n/a
Rio Grande at Frijoles	Not scheduled	n/a
Sacred Spring	Not scheduled	n/a
Sandia Spring	04/23/09	0.00056
Spring 1	Not scheduled	n/a
Spring 2	Not scheduled	n/a
Spring 2B	Not scheduled	n/a
Spring 3	Not scheduled	n/a
Spring 3A	Not scheduled	n/a
Spring 3AA	Not scheduled	n/a
Spring 4	04/21/09	0.009
Spring 4A	04/21/09	0.009
Spring 4AA	04/21/09	0.004
Spring 4B	04/21/09	0.001
Spring 4C	04/21/09	0.0033
Spring 5	Not scheduled	n/a
Spring 5A	Not scheduled	n/a
Spring 5B	Not scheduled	n/a
Spring 6	Not scheduled	n/a
Spring 6A	Not scheduled	n/a
Spring 6AAA	Not scheduled	n/a
Spring 7	Not scheduled	n/a
Spring 8	Not scheduled	n/a
Spring 8A	Not scheduled	n/a
Spring 9	Not scheduled	n/a
Spring 9A	Not scheduled	n/a
Spring 9B	Not scheduled	n/a
Spring 10	04/20/09	<0.0004[c]

[a] Sampled annually

[b] n/a = Not applicable.

[c] See Table 3.4-1 for explanation.

Table 3.4-1
Observations and Deviations

Location	Deviation	Cause	Comment
Spring 10	Limited analytical data are included in this report for this location.	On 04/20/09, the flow was less than 0.0004 ft^3/s. The water was very turbid. Because of the low recharge rate, only an abbreviated suite could be collected.	Location will be sampled again during next annual sampling round.

Table 4.2-1
Screening Levels for Groundwater and Surface Water at Los Alamos National Laboratory

Standard Type	Groundwater	Surface Water
DOE BCG	n/a[a]	X[b]
DOE 100 mrem Public Dose DCGs	X	n/a
DOE 4 mrem Drinking Water DCGs	X	n/a
EPA MCL	X	n/a
EPA Region 6 Tap Water Screening Level	X	n/a
New Mexico Environmental Improvement Board Radiation Protection Standards	X	X
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

[a] n/a = Not applicable.

[b] X = Standard applied to data screen for this report.

Table 4.2-2
Results above Screening Levels for Groundwater

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening-Level Value	Screening-Level Source
Regional Groundwater							
Spring 10	04/20/09	Mn	F*	762	µg/L	200	NMWQCC GW STD

* F = Filtered.

Appendix A

Conceptual Model

Canyon	Contaminant Sources	Alluvial Groundwater Contaminants	Intermediate Groundwater Contaminants	Regional Groundwater Contaminants
White Rock Canyon Springs	None	No alluvial groundwater	No intermediate groundwater	Natural total dissolved solids, fluoride, chloride, arsenic, boron, and uranium

Appendix B

Field Parameter Results

Location	Date	Analyte	Result	Units	Sample
Sandia Spring	04/23/09	Dissolved Oxygen	7.5	mg/L	CAWR-09-7931
Sandia Spring	09/25/08	Dissolved Oxygen	5.68	mg/L	CAWR-08-15466
Sandia Spring	09/14/06	Dissolved Oxygen	3.85	mg/L	FU060900GSSW01
Sandia Spring	09/08/05	Dissolved Oxygen	209.5	mg/L	FU05090GSSW01
Sandia Spring	09/18/07	Dissolved Oxygen	4.62	mg/L	FU070900GSSW01
Sandia Spring	04/23/09	Oxidation Reduction Potential	450	mV	CAWR-09-7931
Sandia Spring	09/14/06	Oxidation Reduction Potential	301.5	mV	FU060900GSSW01
Sandia Spring	04/23/09	Specific Conductance	159	µS/cm	CAWR-09-7931
Sandia Spring	09/25/08	Specific Conductance	194.5	µS/cm	CAWR-08-15466
Sandia Spring	09/14/06	Specific Conductance	176.6	µS/cm	FU060900GSSW01
Sandia Spring	09/08/05	Specific Conductance	200	µS/cm	FU05090GSSW01
Sandia Spring	09/18/07	Specific Conductance	202	µS/cm	FU070900GSSW01
Sandia Spring	04/23/09	Temperature	12.8	deg C	CAWR-09-7931
Sandia Spring	09/25/08	Temperature	16.5	deg C	CAWR-08-15466
Sandia Spring	09/14/06	Temperature	16.8	deg C	FU060900GSSW01
Sandia Spring	09/08/05	Temperature	20.1	deg C	FU05090GSSW01
Sandia Spring	09/18/07	Temperature	17.2	deg C	FU070900GSSW01
Sandia Spring	04/23/09	Turbidity	1.87	NTU	CAWR-09-7931
Sandia Spring	09/25/08	Turbidity	1.07	NTU	CAWR-08-15466
Sandia Spring	09/14/06	Turbidity	1.38	NTU	FU060900GSSW01
Sandia Spring	09/08/05	Turbidity	0.5	NTU	FU05090GSSW01
Sandia Spring	09/18/07	Turbidity	1.61	NTU	FU070900GSSW01
Sandia Spring	04/23/09	pH	6.77	SU	CAWR-09-7931
Sandia Spring	09/25/08	pH	6.46	SU	CAWR-08-15466
Sandia Spring	09/14/06	pH	7	SU	FU060900GSSW01
Sandia Spring	09/08/05	pH	7.46	SU	FU05090GSSW01
Sandia Spring	09/18/07	pH	7.07	SU	FU070900GSSW01
Spring 10	04/20/09	Dissolved Oxygen	3.19	mg/L	CAWR-09-7948
Spring 10	04/23/08	Dissolved Oxygen	3.36	mg/L	CAWR-08-12126
Spring 10	04/20/09	Specific Conductance	293	µS/cm	CAWR-09-7948
Spring 10	04/23/08	Specific Conductance	156.9	µS/cm	CAWR-08-12126
Spring 10	04/20/09	Temperature	27.81	deg C	CAWR-09-7948
Spring 10	04/23/08	Temperature	23.4	deg C	CAWR-08-12126
Spring 10	04/20/09	Turbidity	139	NTU	CAWR-09-7948
Spring 10	04/23/08	Turbidity	5.03	NTU	CAWR-08-12126
Spring 10	04/20/09	pH	7.39	SU	CAWR-09-7948
Spring 10	04/23/08	pH	7.79	SU	CAWR-08-12126
Spring 10	09/27/00	pH	7.67	SU	GM00091G01S
Spring 4	04/21/09	Dissolved Oxygen	12.65	mg/L	CAWR-09-7934
Spring 4	09/29/08	Dissolved Oxygen	5.72	mg/L	CAWR-08-15500

Location	Date	Analyte	Result	Units	Sample
Spring 4	04/24/08	Dissolved Oxygen	10.2	mg/L	CAWR-08-12099
Spring 4	05/03/07	Dissolved Oxygen	7.2	mg/L	FU070400G4SW01
Spring 4	09/24/07	Dissolved Oxygen	4.98	mg/L	FU070900G4SW01
Spring 4	04/21/09	Specific Conductance	165	µS/cm	CAWR-09-7934
Spring 4	09/29/08	Specific Conductance	72.3	µS/cm	CAWR-08-15500
Spring 4	04/24/08	Specific Conductance	170.4	µS/cm	CAWR-08-12099
Spring 4	05/03/07	Specific Conductance	182.6	µS/cm	FU070400G4SW01
Spring 4	09/24/07	Specific Conductance	208	µS/cm	FU070900G4SW01
Spring 4	04/21/09	Temperature	15.77	deg C	CAWR-09-7934
Spring 4	09/29/08	Temperature	16.1	deg C	CAWR-08-15500
Spring 4	04/24/08	Temperature	17.2	deg C	CAWR-08-12099
Spring 4	05/03/07	Temperature	15.9	deg C	FU070400G4SW01
Spring 4	09/24/07	Temperature	17.2	deg C	FU070900G4SW01
Spring 4	04/21/09	Turbidity	0.86	NTU	CAWR-09-7934
Spring 4	09/29/08	Turbidity	1.83	NTU	CAWR-08-15500
Spring 4	04/24/08	Turbidity	2.4	NTU	CAWR-08-12099
Spring 4	05/03/07	Turbidity	0.95	NTU	FU070400G4SW01
Spring 4	09/24/07	Turbidity	3.94	NTU	FU070900G4SW01
Spring 4	04/21/09	pH	7.17	SU	CAWR-09-7934
Spring 4	09/29/08	pH	7	SU	CAWR-08-15500
Spring 4	04/24/08	pH	7.1	SU	CAWR-08-12099
Spring 4	05/03/07	pH	7.18	SU	FU070400G4SW01
Spring 4	09/24/07	pH	6.9	SU	FU070900G4SW01
Spring 4A	04/21/09	Dissolved Oxygen	7.01	mg/L	CAWR-09-7944
Spring 4A	09/29/08	Dissolved Oxygen	8.4	mg/L	CAWR-08-15512
Spring 4A	04/24/08	Dissolved Oxygen	7.57	mg/L	CAWR-08-12111
Spring 4A	09/18/06	Dissolved Oxygen	7.83	mg/L	FU060900GA4S01
Spring 4A	09/24/07	Dissolved Oxygen	7.4	mg/L	FU070900GA4S01
Spring 4A	04/21/09	Specific Conductance	178	µS/cm	CAWR-09-7944
Spring 4A	09/29/08	Specific Conductance	202	µS/cm	CAWR-08-15512
Spring 4A	04/24/08	Specific Conductance	194.2	µS/cm	CAWR-08-12111
Spring 4A	09/24/07	Specific Conductance	181.4	µS/cm	FU070900GA4S01
Spring 4A	04/21/09	Temperature	20.31	deg C	CAWR-09-7944
Spring 4A	09/29/08	Temperature	20.8	deg C	CAWR-08-15512
Spring 4A	04/24/08	Temperature	21.1	deg C	CAWR-08-12111
Spring 4A	09/18/06	Temperature	21	deg C	FU060900GA4S01
Spring 4A	09/24/07	Temperature	21.2	deg C	FU070900GA4S01
Spring 4A	04/21/09	Turbidity	0.41	NTU	CAWR-09-7944
Spring 4A	09/29/08	Turbidity	0.75	NTU	CAWR-08-15512
Spring 4A	04/24/08	Turbidity	9.3	NTU	CAWR-08-12111

Location	Date	Analyte	Result	Units	Sample
Spring 4A	09/18/06	Turbidity	0.18	NTU	FU060900GA4S01
Spring 4A	09/24/07	Turbidity	0.14	NTU	FU070900GA4S01
Spring 4A	04/21/09	pH	7.53	SU	CAWR-09-7944
Spring 4A	09/29/08	pH	7.22	SU	CAWR-08-15512
Spring 4A	04/24/08	pH	7.65	SU	CAWR-08-12111
Spring 4A	09/24/07	pH	7.9	SU	FU070900GA4S01
Spring 4AA	04/21/09	Dissolved Oxygen	7.23	mg/L	CAWR-09-7946
Spring 4AA	09/29/08	Dissolved Oxygen	7.1	mg/L	CAWR-08-15516
Spring 4AA	04/24/08	Dissolved Oxygen	7.37	mg/L	CAWR-08-12109
Spring 4AA	09/18/06	Dissolved Oxygen	6.76	mg/L	FU060900GAA401
Spring 4AA	09/24/07	Dissolved Oxygen	5.2	mg/L	FU070900GAA401
Spring 4AA	04/21/09	Specific Conductance	178	µS/cm	CAWR-09-7946
Spring 4AA	09/29/08	Specific Conductance	208	µS/cm	CAWR-08-15516
Spring 4AA	04/24/08	Specific Conductance	198.1	µS/cm	CAWR-08-12109
Spring 4AA	09/24/07	Specific Conductance	203	µS/cm	FU070900GAA401
Spring 4AA	04/21/09	Temperature	18.57	deg C	CAWR-09-7946
Spring 4AA	09/29/08	Temperature	19.2	deg C	CAWR-08-15516
Spring 4AA	04/24/08	Temperature	19.5	deg C	CAWR-08-12109
Spring 4AA	09/18/06	Temperature	18.7	deg C	FU060900GAA401
Spring 4AA	09/24/07	Temperature	18.9	deg C	FU070900GAA401
Spring 4AA	04/21/09	Turbidity	31.1	NTU	CAWR-09-7946
Spring 4AA	09/29/08	Turbidity	3.13	NTU	CAWR-08-15516
Spring 4AA	04/24/08	Turbidity	7.59	NTU	CAWR-08-12109
Spring 4AA	09/18/06	Turbidity	0.99	NTU	FU060900GAA401
Spring 4AA	09/24/07	Turbidity	1.19	NTU	FU070900GAA401
Spring 4AA	04/21/09	pH	7.58	SU	CAWR-09-7946
Spring 4AA	09/29/08	pH	7.21	SU	CAWR-08-15516
Spring 4AA	04/24/08	pH	7.53	SU	CAWR-08-12109
Spring 4AA	09/24/07	pH	6.63	SU	FU070900GAA401
Spring 4B	04/21/09	Dissolved Oxygen	11.13	mg/L	CAWR-09-7939
Spring 4B	09/29/08	Dissolved Oxygen	9.3	mg/L	CAWR-08-15504
Spring 4B	04/24/08	Dissolved Oxygen	8.7	mg/L	CAWR-08-12102
Spring 4B	05/01/07	Dissolved Oxygen	7.24	mg/L	FU070400GB4S01
Spring 4B	09/25/07	Dissolved Oxygen	6.7	mg/L	FU070900GB4S01
Spring 4B	04/21/09	Specific Conductance	202	µS/cm	CAWR-09-7939
Spring 4B	09/29/08	Specific Conductance	206	µS/cm	CAWR-08-15504
Spring 4B	04/24/08	Specific Conductance	187.3	µS/cm	CAWR-08-12102
Spring 4B	05/01/07	Specific Conductance	225	µS/cm	FU070400GB4S01
Spring 4B	09/25/07	Specific Conductance	226	µS/cm	FU070900GB4S01
Spring 4B	04/21/09	Temperature	18.03	deg C	CAWR-09-7939

Location	Date	Analyte	Result	Units	Sample
Spring 4B	09/29/08	Temperature	18.4	deg C	CAWR-08-15504
Spring 4B	04/24/08	Temperature	17.8	deg C	CAWR-08-12102
Spring 4B	05/01/07	Temperature	15.2	deg C	FU070400GB4S01
Spring 4B	09/25/07	Temperature	17.4	deg C	FU070900GB4S01
Spring 4B	04/21/09	Turbidity	8.23	NTU	CAWR-09-7939
Spring 4B	04/24/08	Turbidity	4.48	NTU	CAWR-08-12102
Spring 4B	05/01/07	Turbidity	16.4	NTU	FU070400GB4S01
Spring 4B	09/18/06	Turbidity	9.1	NTU	FU060900GB4S01
Spring 4B	09/25/07	Turbidity	12.2	NTU	FU070900GB4S01
Spring 4B	04/21/09	pH	7.38	SU	CAWR-09-7939
Spring 4B	09/29/08	pH	6.92	SU	CAWR-08-15504
Spring 4B	04/24/08	pH	7	SU	CAWR-08-12102
Spring 4B	05/01/07	pH	7.89	SU	FU070400GB4S01
Spring 4B	09/25/07	pH	7.64	SU	FU070900GB4S01
Spring 4C	04/21/09	Dissolved Oxygen	12.16	mg/L	CAWR-09-7940
Spring 4C	09/29/08	Dissolved Oxygen	10	mg/L	CAWR-08-15511
Spring 4C	09/29/08	Dissolved Oxygen	10	mg/L	CAWR-08-15508
Spring 4C	04/24/08	Dissolved Oxygen	10.5	mg/L	CAWR-08-12106
Spring 4C	05/01/07	Dissolved Oxygen	7.69	mg/L	FU070400GC4S01
Spring 4C	09/25/07	Dissolved Oxygen	8.42	mg/L	FU070900GC4S01
Spring 4C	04/21/09	Specific Conductance	172	µS/cm	CAWR-09-7940
Spring 4C	09/29/08	Specific Conductance	104	µS/cm	CAWR-08-15511
Spring 4C	09/29/08	Specific Conductance	104	µS/cm	CAWR-08-15508
Spring 4C	04/24/08	Specific Conductance	172.1	µS/cm	CAWR-08-12106
Spring 4C	05/01/07	Specific Conductance	204	µS/cm	FU070400GC4S01
Spring 4C	09/25/07	Specific Conductance	191.3	µS/cm	FU070900GC4S01
Spring 4C	04/21/09	Temperature	16.86	deg C	CAWR-09-7940
Spring 4C	09/29/08	Temperature	20.1	deg C	CAWR-08-15508
Spring 4C	09/29/08	Temperature	20.1	deg C	CAWR-08-15511
Spring 4C	04/24/08	Temperature	17.3	deg C	CAWR-08-12106
Spring 4C	05/01/07	Temperature	16.9	deg C	FU070400GC4S01
Spring 4C	09/25/07	Temperature	18.1	deg C	FU070900GC4S01
Spring 4C	04/21/09	Turbidity	0.81	NTU	CAWR-09-7940
Spring 4C	09/29/08	Turbidity	0.51	NTU	CAWR-08-15511
Spring 4C	04/24/08	Turbidity	0.84	NTU	CAWR-08-12106
Spring 4C	05/01/07	Turbidity	0.28	NTU	FU070400GC4S01
Spring 4C	09/25/07	Turbidity	0.32	NTU	FU070900GC4S01
Spring 4C	04/21/09	pH	7.38	SU	CAWR-09-7940
Spring 4C	09/29/08	pH	7.53	SU	CAWR-08-15511
Spring 4C	09/29/08	pH	7.53	SU	CAWR-08-15508

Location	Date	Analyte	Result	Units	Sample
Spring 4C	04/24/08	pH	7.4	SU	CAWR-08-12106
Spring 4C	05/01/07	pH	7.93	SU	FU070400GC4S01
Spring 4C	09/25/07	pH	7.87	SU	FU070900GC4S01

µS/cm = Microsiemens per centimeter.
mV = Millivolt.
NTU = Nephelometric turbidity unit.
SU = Standard unit.

Appendix C

Groundwater-Level Measurements
(There are no groundwater-monitoring wells in White Rock Watershed.)

Appendix D

Analytical Results

The following symbols, abbreviations, and acronyms are used throughout Appendix D.

<	Based on qualifiers, the result was a nondetection.
—	none
*	(Inorganic) The result for this analyte in the Los Alamos National Laboratory (Laboratory) replicate analysis was outside acceptance criteria.
B	(Organic) This analyte was detected in the associated laboratory method blank and the sample. (B) (Inorganic) The result for this analyte was greater than the instrument detection limit but less than the contract-required detection limit.
CS	client sample
CST	control sample triplicate
DUP	duplicate sample
E	(Organic) The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (inductively coupled plasma–atomic emission spectroscopy). The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (graphite furnace atomic absorption) The result for this analyte failed one or more Contract Laboratory Program acceptance criteria as explained in the case narrative.
EES6	The Laboratory's Earth and Environmental Sciences Division (Hydrology, Geochemistry, and Geology Group)
EPA	U.S. Environmental Protection Agency
F	filtered
FD	field duplicate
FTB	field trip blank
GELC	General Engineering Laboratories
GEO	Geochron Analytical Laboratory
H	(Organic/Inorganic) The required extraction or analysis holding time for this result was exceeded.
HUFFMAN	Huffman Analytical Laboratory
Inorg	inorganic
J	(Organic/General Inorganics) The result for this analyte was greater than the method detection limit (MDL) but less than the practical quantitation limit.
J-	Presumptive evidence of the presence of the material is at an estimated quantity with a suspected negative bias.

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.
LLEE	low-level electrolytic extraction
LT	(Rad) The result for this analyte is affected by spectral interference.
JN-	Presumptive evidence of the presence of the material is at an estimated quantity with a suspected negative bias.
JN+	Presumptive evidence of the presence of the material is at an estimated quantity with a suspected positive bias.
MDA	minimum detectable activity
MDL	method detection limit
Met	metals
mV	millivolt
n/a	not applicable
NQ	No validation qualifier flag is associated with this result, and the analyte is classified as detected.
PARA	Paragon Analytical Laboratory
R	rejected
Rad	radionuclides
STSL	Severn Trent St. Louis Analytical Laboratory
SV	semivolatile organics
TPU	total propagated uncertainty
U	not detected
UF	unfiltered
UMTL	University of Miami Tritium Laboratory
VOA	volatile organic analysis
WG	groundwater
WM	snowmelt
WP	persistent water
WS	surface water

Table D-1 Previously Unreported Data

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Ancho Spring	4/28/2008	WG	F	CS	—	Isotope	SW-846:6020	Chromium-53/52	—	1.004	—	—	0.1	%	—	—	08-1117	CAWR-08-12117	GELC
Ancho Spring	9/19/2006	WG	F	CS	—	Isotope	Delta C-13 Ratio	Delta C-13 relative to Pee Dee Belemnite	—	-13.5	—	—	—	o/oo	—	—	2006-14C-WRC	Anch-09-19-06	UAZ
Ancho Spring	2/24/2006	WG	F	CS	—	Isotope	Delta C-13 Ratio	Delta C-13 relative to Pee Dee Belemnite	—	-13.7	—	—	—	o/oo	—	—	2006-14C	Anch-2-24-06	UAZ
Ancho Spring	9/27/2005	WG	F	CS	—	Isotope	Delta C-13 Ratio	Delta C-13 relative to Pee Dee Belemnite	—	-14	—	—	—	o/oo	—	—	200514C-1st	Anch-9-27-05	UAZ
Ancho Spring	9/19/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.42	0.31	—	—	permil	—	—	17772	EU060900GSAW01	EES6
Ancho Spring	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22629	EF070900GSAW01	EES6
Ancho Spring	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.79	0.04	—	—	permil	—	—	19492	EU070900GSAW01	EES6
Ancho Spring	9/19/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.11	0.03	—	—	permil	—	—	13131	EU060900GSAW01	EES6
Doe Spring	9/26/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22622	EF070900GSDW01	EES6
Doe Spring	9/26/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.77	0.03	—	—	permil	—	—	19477	EU070900GSDW01	EES6
Doe Spring	9/20/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.24	0.04	—	—	permil	—	—	13124	EU060900GSDW01	EES6
La Mesita Spring	9/18/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22601	EF070900GSML01	EES6
La Mesita Spring	9/18/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.63	0.04	—	—	permil	—	—	19453	EU070900GSML01	EES6
La Mesita Spring	9/14/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-9.74	0.03	—	—	permil	—	—	17815	EU060800GSML01	EES6
Sacred Spring	9/19/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22600	EF070900GSDS01	EES6
Sacred Spring	9/19/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.98	0.04	—	—	permil	—	—	19452	EU070900GSDS01	EES6
Sacred Spring	9/14/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.46	0.04	—	—	permil	—	—	13106	EU060800GSDS01	EES6
Sandia Spring	9/18/2007	WG	F	CS	FD	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22599	EF070900GSSW20	EES6
Sandia Spring	9/18/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22598	EF070900GSSW01	EES6
Sandia Spring	9/18/2007	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.49	0.04	—	—	permil	—	—	19451	EU070900GSSW20	EES6
Sandia Spring	9/18/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.9	0.04	—	—	permil	—	—	19450	EU070900GSSW01	EES6
Sandia Spring	9/14/2006	WG	UF	CS	FB	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.18	0.04	—	—	permil	—	—	13112	EU060900GSSW01-FB	EES6
Sandia Spring	9/14/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.9	0.04	—	—	permil	—	—	13111	EU060900GSSW01	EES6
Spring 1	9/29/2008	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-82.5	—	—	—	permil	—	—	08-2040	CAWR-08-15472	EES6
Spring 1	9/18/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.2	0.21	—	—	permil	—	—	17749	EU060900G1SW01	EES6
Spring 1	9/29/2008	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.16	—	—	—	permil	—	—	08-2040	CAWR-08-15469	EES6
Spring 1	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22602	EF070900G1SW01	EES6
Spring 1	9/29/2008	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.54	—	—	—	permil	—	—	08-2040	CAWR-08-15472	EES6
Spring 1	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.17	0.04	—	—	permil	—	—	19454	EU070900G1SW01	EES6
Spring 1	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.62	0.04	—	—	permil	—	—	13109	EU060900G1SW01	EES6
Spring 10	4/23/2008	WG	F	CS	—	Isotope	SW-846:6020	Chromium-53/52	—	1.439	—	—	0.1	%	—	—	08-1117	CAWR-08-12127	GELC
Spring 2	9/29/2008	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.02	—	—	—	permil	—	—	08-2040	CAWR-08-15475	EES6
Spring 2	9/18/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-82.76	0.35	—	—	permil	—	—	17751	EU060900G2SW01	EES6
Spring 2	9/24/2007	WG	F	CS	FD	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22604	EF070900G2SW20	EES6
Spring 2	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22603	EF070900G2SW01	EES6
Spring 2	9/29/2008	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.05	—	—	—	permil	—	—	08-2040	CAWR-08-15475	EES6
Spring 2	9/24/2007	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.07	0.04	—	—	permil	—	—	19456	EU070900G2SW20	EES6
Spring 2	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.05	0.04	—	—	permil	—	—	19455	EU070900G2SW01	EES6
Spring 2	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.53	0.04	—	—	permil	—	—	13110	EU060900G2SW01	EES6
Spring 3	4/23/2008	WG	F	CS	—	Isotope	SW-846:6020	Chromium-53/52	—	1.396	—	—	0.1	%	—	—	08-1117	CAWR-08-12095	GELC
Spring 3	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22605	EF070900G3SW01	EES6
Spring 3	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.61	0.03	—	—	permil	—	—	19457	EU070900G3SW01	EES6
Spring 3	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.95	0.04	—	—	permil	—	—	13113	EU060900G3SW01	EES6
Spring 3	7/21/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.87	0.04	—	—	permil	—	—	6028	EU05070G3SW01	EES6
Spring 3	5/16/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.7	0.03	—	—	permil	—	—	5945	EU05040G3SW02	EES6
Spring 3	4/20/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.81	0.03	—	—	permil	—	—	5944	EU05040G3SW01	EES6
Spring 3	3/9/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.37	0.03	—	—	permil	—	—	5905	EU05030G3SW01	EES6
Spring 3A	4/23/2008	WG	F	CS	FD	Isotope	SW-846:6020	Chromium-53/52	—	1.336	—	—	0.1	%	—	—	08-1117	CAWR-08-12129	GELC
Spring 3A	9/18/2006	WG	F	CS	—	Isotope	Delta C-13 Ratio	Delta C-13 relative to Pee Dee Belemnite	—	-12.5	—	—	—	o/oo	—	—	2006-14C-WRC	Spr 3A-09-18-06	UAZ
Spring 3A	9/26/2005	WG	F	CS	—	Isotope	Delta C-13 Ratio	Delta C-13 relative to Pee Dee Belemnite	—	-13.2	—	—	—	o/oo	—	—	200514C-1st	Spr 3A-9-26-05	UAZ
Spring 3A	7/21/2005	WG	F	CS	—	Isotope	Delta C-13 Ratio	Delta C-13 relative to Pee Dee Belemnite	—	-12.3	—	—	—	o/oo	—	—	200514C-1st	Spr 3A-7-21-05	UAZ

Table D-1 Previously Unreported Data

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 3A	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22606	EF070900GA3S01	EES6
Spring 3A	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.56	0.03	—	—	permil	—	—	19459	EU070900GA3S01	EES6
Spring 3A	9/18/2006	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.69	0.04	—	—	permil	—	—	13115	EU060900GA3S90	EES6
Spring 3A	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.52	0.04	—	—	permil	—	—	13114	EU060900GA3S01	EES6
Spring 3A	7/21/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.57	0.04	—	—	permil	—	—	6029	EU05070GA3S01	EES6
Spring 3A	5/16/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.72	0.03	—	—	permil	—	—	5947	EU05040GA3S03	EES6
Spring 3A	4/20/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.62	0.03	—	—	permil	—	—	5946	EU05040GA3S02	EES6
Spring 3A	4/15/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.66	0.02	—	—	permil	—	—	5932	EU05040GA3S01	EES6
Spring 3A	3/9/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.45	0.03	—	—	permil	—	—	5893	EU05030GA3S01	EES6
Spring 3AA	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22607	EF070900GAA301	EES6
Spring 3AA	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.51	0.04	—	—	permil	—	—	19460	EU070900GAA301	EES6
Spring 3AA	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.67	0.04	—	—	permil	—	—	13116	EU060900GAA301	EES6
Spring 4	4/24/2008	WG	F	CS	—	Isotope	SW-846:6020	Chromium-53/52	—	2.06	—	—	0.1	%	—	—	08-1117	CAWR-08-12101	GELC
Spring 4	9/18/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.07	0.17	—	—	permil	—	—	18450	EU060900G4SW01	EES6
Spring 4	7/27/2005	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.46	0.11	—	—	permil	—	—	5776	EU05070G4SW01	EES6
Spring 4	4/22/2005	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.23	0.05	—	—	permil	—	—	5693	EU05040G4SW01	EES6
Spring 4	3/11/2005	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.59	0.16	—	—	permil	—	—	5640	EU05030G4SW01	EES6
Spring 4	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22608	EF070900G4SW01	EES6
Spring 4	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.57	0.04	—	—	permil	—	—	19461	EU070900G4SW01	EES6
Spring 4	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.89	0.04	—	—	permil	—	—	13117	EU060900G4SW01	EES6
Spring 4	7/27/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.66	0.03	—	—	permil	—	—	6030	EU05070G4SW01	EES6
Spring 4	4/22/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.87	0.03	—	—	permil	—	—	5948	EU05040G4SW01	EES6
Spring 4	3/11/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.82	0.03	—	—	permil	—	—	5895	EU05030G4SW01	EES6
Spring 4A	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22610	EF070900GA4S01	EES6
Spring 4A	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.56	0.04	—	—	permil	—	—	19464	EU070900GA4S01	EES6
Spring 4A	9/18/2006	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.74	0.04	—	—	permil	—	—	13119	EU060900GA4S90	EES6
Spring 4A	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.88	0.04	—	—	permil	—	—	13118	EU060900GA4S01	EES6
Spring 4A	7/28/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.72	0.03	—	—	permil	—	—	6032	EU05070GA4S01	EES6
Spring 4A	5/16/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.67	0.03	—	—	permil	—	—	5952	EU05040GA4S02	EES6
Spring 4A	4/26/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.72	0.03	—	—	permil	—	—	5951	EU05040GA4S01	EES6
Spring 4A	3/18/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.53	0.05	—	—	permil	—	—	5896	EU05030GA4S01	EES6
Spring 4AA	4/24/2008	WG	F	CS	FD	Isotope	SW-846:6020	Chromium-53/52	—	1.558	—	—	0.1	%	—	—	08-1117	CAWR-08-12132	GELC
Spring 4AA	4/24/2008	WG	F	CS	—	Isotope	SW-846:6020	Chromium-53/52	—	1.795	—	—	0.1	%	—	—	08-1117	CAWR-08-12108	GELC
Spring 4AA	9/24/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22611	EF070900GAA401	EES6
Spring 4AA	9/24/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.39	0.04	—	—	permil	—	—	19465	EU070900GAA401	EES6
Spring 4AA	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.81	0.04	—	—	permil	—	—	13120	EU060900GAA401	EES6
Spring 4AA	7/26/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.77	0.03	—	—	permil	—	—	6033	EU05070GAA401	EES6
Spring 4AA	5/16/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.62	0.03	—	—	permil	—	—	5954	EU05040GAA402	EES6
Spring 4AA	4/26/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.55	0.03	—	—	permil	—	—	5953	EU05040GAA401	EES6
Spring 4AA	3/22/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.58	0.05	—	—	permil	—	—	5917	EU05030GAA401	EES6
Spring 4B	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22609	EF070900GB4S01	EES6
Spring 4B	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.45	0.03	—	—	permil	—	—	19463	EU070900GB4S01	EES6
Spring 4B	9/18/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.81	0.04	—	—	permil	—	—	13121	EU060900GB4S01	EES6
Spring 4B	7/27/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.65	0.03	—	—	permil	—	—	6034	EU05070GB4S01	EES6
Spring 4B	5/16/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.7	0.03	—	—	permil	—	—	5956	EU05040GB4S02	EES6
Spring 4B	4/22/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.69	0.03	—	—	permil	—	—	5955	EU05040GB4S01	EES6
Spring 4B	3/22/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.84	0.05	—	—	permil	—	—	5897	EU05030GB4S01	EES6
Spring 4C	4/24/2008	WG	F	CS	—	Isotope	SW-846:6020	Chromium-53/52	—	1.194	—	—	0.1	%	—	—	08-1117	CAWR-08-12105	GELC
Spring 4C	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22612	EF070900GC4S01	EES6
Spring 4C	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.67	0.04	—	—	permil	—	—	19466	EU070900GC4S01	EES6
Spring 4C	9/19/2006	WG	UF	CS	FB	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	0.03	—	—	permil	—	—	13135	EU060900GC4S01-FB	EES6

Table D-1 Previously Unreported Data

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4C	7/27/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.91	0.03	—	—	permil	—	—	6031	EU05070GC4S01	EES6
Spring 4C	5/20/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.73	0.03	—	—	permil	—	—	5950	EU05040GC4S02	EES6
Spring 4C	4/22/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.94	0.03	—	—	permil	—	—	5949	EU05040GC4S01	EES6
Spring 4C	3/11/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.69	0.03	—	—	permil	—	—	5898	EU05030GC4S01	EES6
Spring 5	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22614	EF070900G5SW01	EES6
Spring 5	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.58	0.04	—	—	permil	—	—	19468	EU070900G5SW01	EES6
Spring 5	9/19/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.81	0.04	—	—	permil	—	—	13125	EU060900G5SW01	EES6
Spring 5	7/26/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.7	0.03	—	—	permil	—	—	6036	EU05070G5SW01	EES6
Spring 5	6/2/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.72	0.04	—	—	permil	—	—	5958	EU05040G5SW02	EES6
Spring 5	4/26/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.69	0.03	—	—	permil	—	—	5957	EU05040G5SW01	EES6
Spring 5	3/24/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.69	0.05	—	—	permil	—	—	5899	EU05030G5SW01	EES6
Spring 5A	9/30/2008	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.15	—	—	—	permil	—	—	09-28	CAWR-08-15528	EES6
Spring 5A	9/30/2008	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.01	—	—	—	permil	—	—	09-28	CAWR-08-15527	EES6
Spring 5A	9/30/2008	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.68	—	—	—	permil	—	—	09-28	CAWR-08-15528	EES6
Spring 5B	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22613	EF070900GB5S01	EES6
Spring 5B	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.41	0.04	—	—	permil	—	—	19467	EU070900GB5S01	EES6
Spring 6	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22615	EF070900G6SW01	EES6
Spring 6	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.66	0.04	—	—	permil	—	—	19470	EU070900G6SW01	EES6
Spring 6	9/19/2006	WG	UF	CS	FB	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.22	0.04	—	—	permil	—	—	13130	EU060900G6SW01-FB	EES6
Spring 6	9/19/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.93	0.04	—	—	permil	—	—	13129	EU060900G6SW01	EES6
Spring 6	7/25/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.2	0.047	—	—	permil	—	—	6037	EU05070G6SW01	EES6
Spring 6	4/29/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.07	0.03	—	—	permil	—	—	5959	EU05040G6SW01	EES6
Spring 6	3/24/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.01	0.05	—	—	permil	—	—	5926	EU05030G6SW01	EES6
Spring 6A	9/30/2008	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.17	—	—	—	permil	—	—	09-28	CAWR-08-15542	EES6
Spring 6A	9/19/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.93	0.0067	—	—	permil	—	—	17769	EU060900GA6S01	EES6
Spring 6A	9/30/2008	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.05	—	—	—	permil	—	—	09-28	CAWR-08-15541	EES6
Spring 6A	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22616	EF070900GA6S01	EES6
Spring 6A	9/30/2008	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.89	—	—	—	permil	—	—	09-28	CAWR-08-15542	EES6
Spring 6A	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.83	0.04	—	—	permil	—	—	19471	EU070900GA6S01	EES6
Spring 6A	9/19/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.21	0.04	—	—	permil	—	—	13128	EU060900GA6S01	EES6
Spring 6AAA	9/25/2007	WG	F	CS	FD	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22618	EF07090G6AAA20	EES6
Spring 6AAA	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22617	EF07090G6AAA01	EES6
Spring 6AAA	9/25/2007	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.8	0.04	—	—	permil	—	—	19473	EU07090G6AAA20	EES6
Spring 6AAA	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.94	0.04	—	—	permil	—	—	19472	EU07090G6AAA01	EES6
Spring 6AAA	9/19/2006	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.45	0.03	—	—	permil	—	—	13134	EU06090G6AAA90	EES6
Spring 6AAA	9/19/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.37	0.04	—	—	permil	—	—	13132	EU06090G6AAA01	EES6
Spring 8A	9/30/2008	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.91	—	—	—	permil	—	—	09-32	CAWR-08-15550	EES6
Spring 8A	9/19/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.22	0.067	—	—	permil	—	—	17768	EU060900GA8S01	EES6
Spring 8A	9/30/2008	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.92	—	—	—	permil	—	—	09-32	CAWR-08-15549	EES6
Spring 8A	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22619	EF070900GA8S01	EES6
Spring 8A	9/30/2008	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.08	—	—	—	permil	—	—	09-32	CAWR-08-15550	EES6
Spring 8A	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.83	0.04	—	—	permil	—	—	19474	EU070900GA8S01	EES6
Spring 8A	9/19/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.24	0.04	—	—	permil	—	—	13127	EU060900GA8S01	EES6
Spring 9	9/19/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.94	0.07	—	—	permil	—	—	17763	EU060900G9SW01	EES6
Spring 9	9/25/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22620	EF070900G9SW01	EES6
Spring 9	9/25/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11	0.03	—	—	permil	—	—	19475	EU070900G9SW01	EES6
Spring 9A	9/20/2006	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-66.84	0.12	—	—	permil	—	—	17764	EU060900GA9S01	EES6
Spring 9A	7/20/2005	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.04	0.097	—	—	permil	—	—	5771	EU05070GA9S01	EES6
Spring 9A	5/18/2005	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.61	0.013	—	—	permil	—	—	5688	EU05040GA9S02	EES6
Spring 9A	4/29/2005	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.66	0.13	—	—	permil	—	—	5687	EU05040GA9S01	EES6
Spring 9A	3/8/2005	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.76	0.13	—	—	permil	—	—	5636	EU05030GA9S01	EES6

Table D-1 Previously Unreported Data

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 9A	9/26/2007	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	—	—	—	—	permil	—	—	22621	EF070900GA9S01	EES6
Spring 9A	9/26/2007	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.94	0.04	—	—	permil	—	—	19476	EU070900GA9S01	EES6
Spring 9A	9/20/2006	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.27	0.04	—	—	permil	—	—	13123	EU060900GA9S01	EES6
Spring 9A	7/20/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.24	0.04	—	—	permil	—	—	6025	EU05070GA9S01	EES6
Spring 9A	5/18/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.39	0.03	—	—	permil	—	—	5942	EU05040GA9S02	EES6
Spring 9A	4/29/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.11	0.03	—	—	permil	—	—	5941	EU05040GA9S01	EES6
Spring 9A	3/8/2005	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.92	0.03	—	—	permil	—	—	5890	EU05030GA9S01	EES6
Spring 9B	4/23/2008	WG	F	CS	—	Isotope	SW-846:6020	Chromium-53/52	—	0.993	—	—	0.1	%	—	—	08-1117	CAWR-08-12125	GELC
Spring 9B	10/1/2008	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.27	—	—	—	permil	—	—	09-28	CAWR-08-15552	EES6
Spring 9B	10/1/2008	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.36	—	—	—	permil	—	—	09-28	CAWR-08-15551	EES6
Spring 9B	10/1/2008	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.28	—	—	—	permil	—	—	09-28	CAWR-08-15552	EES6

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	91.4	—	—	7.30E-01	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	90	—	—	7.30E-01	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	89.9	—	—	7.25E-01	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	93	—	—	7.25E-01	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	83.1	—	—	1.45E+00	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	90.9	—	—	7.25E-01	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.026	—	—	1.60E-02	mg/L	J	J-	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.15	—	—	1.50E-01	mg/L	U	UJ	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.01	—	—	1.00E-02	mg/L	U	UJ	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.08	—	—	8.00E-02	mg/L	U	UJ, R	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.01	—	—	1.00E-02	mg/L	U	UJ	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.3	—	—	3.00E-02	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.6	—	—	3.00E-02	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.6	—	—	3.00E-02	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.2	—	—	3.60E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.6	—	—	3.60E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.9	—	—	3.00E-02	mg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.5	—	—	3.00E-02	mg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.8	—	—	3.00E-02	mg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.6	—	—	3.60E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.4	—	—	3.60E-02	mg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.44	—	—	6.60E-02	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.2	—	—	6.60E-02	mg/L	—	J	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.23	—	—	6.60E-02	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.18	—	—	6.60E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.31	—	—	5.30E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:300.0	Chloride	—	3.14	—	—	6.60E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.505	—	—	3.30E-02	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.554	—	—	3.30E-02	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.527	—	—	3.30E-02	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.507	—	—	3.30E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.578	—	—	3.00E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.513	—	—	3.30E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	73.1	—	—	3.50E-01	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	71.2	—	—	3.50E-01	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	74	—	—	4.25E-01	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	72.9	—	—	8.50E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	71.1	—	—	8.50E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	75.2	—	—	3.50E-01	mg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	73.7	—	—	3.50E-01	mg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	71.7	—	—	4.25E-01	mg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	71.3	—	—	8.50E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	70.6	—	—	8.50E-02	mg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.79	—	—	8.50E-02	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.79	—	—	8.50E-02	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.84	—	—	8.50E-02	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.82	—	—	8.50E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.75	—	—	8.50E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.94	—	—	8.50E-02	mg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.86	—	—	8.50E-02	mg/L	—	—	08-2023	CAWR-08-15466	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia Spring	09/18/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.77	—	—	8.50E-02	mg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.78	—	—	8.50E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	1.74	—	—	8.50E-02	mg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.38	—	—	5.00E-02	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.478	—	—	5.00E-02	mg/L	—	J	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.31	—	—	1.00E-02	mg/L	—	J+	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:353.1	Nitrate-Nitrite as Nitrogen	—	0.208	—	—	1.40E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:353.1	Nitrate-Nitrite as Nitrogen	—	0.173	—	—	1.70E-02	mg/L	—	J-	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:353.1	Nitrate-Nitrite as Nitrogen	—	0.209	—	—	1.40E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.442	—	—	5.00E-02	µg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.38	—	—	5.00E-02	µg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.365	—	—	5.00E-02	µg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	SW846 6850	Perchlorate	—	0.331	—	—	5.00E-02	µg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:314.0	Perchlorate	<	4	—	—	4.00E+00	µg/L	U	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:314.0	Perchlorate	<	4	—	—	4.00E+00	µg/L	U	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	SW846 6850	Perchlorate	—	0.317	—	—	5.00E-02	µg/L	H	J, J-	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.44	—	—	5.00E-02	mg/L	E	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.4	—	—	5.00E-02	mg/L	E	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.56	—	—	5.00E-02	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.49	—	—	5.00E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.5	—	—	5.00E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.64	—	—	5.00E-02	mg/L	E	J	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.51	—	—	5.00E-02	mg/L	E	J	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.45	—	—	5.00E-02	mg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.43	—	—	5.00E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.44	—	—	5.00E-02	mg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	49.3	—	—	3.20E-02	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	48	—	—	3.20E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	44.6	—	—	3.20E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	47.1	—	—	3.20E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	45.5	—	—	3.20E-02	mg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.5	—	—	4.50E-02	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.2	—	—	4.50E-02	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.8	—	—	4.50E-02	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.6	—	—	4.50E-02	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.2	—	—	4.50E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.9	—	—	4.50E-02	mg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.7	—	—	4.50E-02	mg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15	—	—	4.50E-02	mg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.1	—	—	4.50E-02	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.2	—	—	4.50E-02	mg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	208	—	—	1.00E+00	µS/cm	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	209	—	—	1.00E+00	µS/cm	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	202	—	—	1.00E+00	µS/cm	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	208	—	—	1.00E+00	µS/cm	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	192	—	—	1.00E+00	µS/cm	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	206	—	—	1.00E+00	µS/cm	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.06	—	—	1.00E-01	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.19	—	—	1.00E-01	mg/L	—	J	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.04	—	—	1.00E-01	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.74	—	—	1.00E-01	mg/L	—	—	171922	GF060900GSSW01	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.35	—	—	5.70E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.78	—	—	1.00E-01	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	50.6	—	—	1.10E+00	mg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	<	10	—	—	2.30E+00	mg/L	U	U	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	<	1.14	—	—	1.14E+00	mg/L	U	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	<	0.713	—	—	7.13E-01	mg/L	U	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	1.38	—	—	1.12E+00	mg/L	J	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	2.40E+00	mg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	153	—	—	2.40E+00	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	154	—	—	2.38E+00	mg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	163	—	—	2.38E+00	mg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	160	—	—	2.38E+00	mg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	145	—	—	2.38E+00	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.029	—	—	2.90E-02	mg/L	U	UJ	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.01	—	—	1.00E-02	mg/L	U	UJ	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.724	—	—	4.00E-02	mg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.083	—	—	3.30E-02	mg/L	J	J	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.074	—	—	2.90E-02	mg/L	J	U	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.029	—	—	2.90E-02	mg/L	U	UJ	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.1	—	—	1.00E-01	mg/L	U	UJ	171922	GU060900GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.78	—	—	1.00E-02	SU	H	J-	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.5	—	—	1.00E-02	SU	H	J-	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.96	—	—	1.00E-02	SU	H	J	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.41	—	—	1.00E-02	SU	H	J	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.1	—	—	1.00E-02	SU	H	J	145191	GF05090GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Geninorg	EPA:150.1	pH	—	7.4	—	—	1.00E-02	SU	H	J	171922	GU060900GSSW01	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	610	—	—	6.80E+01	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	76.5	—	—	1.00E+00	µg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	69.7	—	—	1.00E+00	µg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	81.5	—	—	1.00E+00	µg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	75.5	—	—	1.00E+00	µg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	75.8	—	—	1.00E+00	µg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	85.7	—	—	1.00E+00	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	72.2	—	—	1.00E+00	µg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	78.2	—	—	1.00E+00	µg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	74	—	—	1.00E+00	µg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	75.3	—	—	1.00E+00	µg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	18.9	—	—	1.00E+01	µg/L	J	J	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	24	—	—	1.00E+01	µg/L	J	J	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	17	—	—	1.00E+01	µg/L	J	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	19.5	—	—	1.00E+01	µg/L	J	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	19.1	—	—	1.00E+01	µg/L	J	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	20.4	—	—	1.00E+01	µg/L	J	J	09-1598	CAWR-09-7931	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	27.3	—	—	1.00E+01	µg/L	J	J	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	13.6	—	—	1.00E+01	µg/L	J	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	18	—	—	1.00E+01	µg/L	J	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	18.3	—	—	1.00E+01	µg/L	J	—	145191	GU05090GSSW01	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	2.50E+01	µg/L	U	U	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	28.2	—	—	2.50E+01	µg/L	J	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	36.1	—	—	1.80E+01	µg/L	J	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	18	—	—	1.80E+01	µg/L	U	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	462	—	—	2.50E+01	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	33.8	—	—	2.50E+01	µg/L	J	J	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	31	—	—	2.50E+01	µg/L	J	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	21.9	—	—	1.80E+01	µg/L	J	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	39.6	—	—	1.80E+01	µg/L	J	—	145191	GU05090GSSW01	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6020	Lead	<	0.5	—	—	5.00E-01	µg/L	U	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6020	Lead	<	0.5	—	—	5.00E-01	µg/L	U	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6020	Lead	<	0.5	—	—	5.00E-01	µg/L	U	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6020	Lead	—	0.664	—	—	5.00E-01	µg/L	J	J	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6020	Lead	<	0.5	—	—	5.00E-01	µg/L	U	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6020	Lead	<	0.5	—	—	5.00E-01	µg/L	U	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6020	Lead	<	0.5	—	—	5.00E-01	µg/L	U	—	145191	GU05090GSSW01	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	18.6	—	—	2.00E+00	µg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	15.6	—	—	2.00E+00	µg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	18.3	—	—	2.00E+00	µg/L	—	J+	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	14.7	—	—	2.00E+00	µg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	10.6	—	—	2.00E+00	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	15.5	—	—	2.00E+00	µg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	15.4	—	—	2.00E+00	µg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	17.5	—	—	2.00E+00	µg/L	—	J+	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	17.2	—	—	2.00E+00	µg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	0.977	—	—	1.00E-01	µg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	0.95	—	—	1.00E-01	µg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Molybdenum	<	2	—	—	2.00E+00	µg/L	U	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Molybdenum	<	2	—	—	2.00E+00	µg/L	U	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Molybdenum	—	2.3	—	—	2.00E+00	µg/L	J	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.01	—	—	1.00E-01	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	0.93	—	—	1.00E-01	µg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Molybdenum	<	2	—	—	2.00E+00	µg/L	U	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Molybdenum	<	2	—	—	2.00E+00	µg/L	U	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Molybdenum	<	2	—	—	2.00E+00	µg/L	U	—	145191	GU05090GSSW01	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.1	—	—	5.00E-01	µg/L	J	J	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.55	—	—	5.00E-01	µg/L	J	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.63	—	—	5.00E-01	µg/L	J	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.71	—	—	5.00E-01	µg/L	J	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.11	—	—	5.00E-01	µg/L	J	J	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.4	—	—	5.00E-01	µg/L	J	J	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.57	—	—	5.00E-01	µg/L	J	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.54	—	—	5.00E-01	µg/L	J	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.74	—	—	5.00E-01	µg/L	J	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	45.1	—	—	3.20E-02	mg/L	—	—	09-1598	CAWR-09-7932	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	44.9	—	—	3.20E-02	mg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	317	—	—	1.00E+00	µg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	298	—	—	1.00E+00	µg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	332	—	—	1.00E+00	µg/L	—	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	319	—	—	1.00E+00	µg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	318	—	—	1.00E+00	µg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	329	—	—	1.00E+00	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	309	—	—	1.00E+00	µg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	321	—	—	1.00E+00	µg/L	—	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	311	—	—	1.00E+00	µg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	316	—	—	1.00E+00	µg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	1	—	—	3.00E-01	µg/L	U	U	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	0.3	—	—	3.00E-01	µg/L	U	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	0.4	—	—	4.00E-01	µg/L	U	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6020	Thallium	—	0.6	—	—	4.00E-01	µg/L	J	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6020	Thallium	—	0.451	—	—	3.00E-01	µg/L	J	J	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6020	Thallium	—	0.53	—	—	3.00E-01	µg/L	J	J	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	0.3	—	—	3.00E-01	µg/L	U	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	0.4	—	—	4.00E-01	µg/L	U	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	0.4	—	—	4.00E-01	µg/L	U	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.62	—	—	5.00E-02	µg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	—	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	J+	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1	—	—	5.00E-02	µg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.95	—	—	5.00E-02	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1	—	—	5.00E-02	µg/L	—	—	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	J+	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.2	—	—	5.00E-02	µg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	11.2	—	—	1.00E+00	µg/L	—	—	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	11.3	—	—	1.00E+00	µg/L	—	J	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	11.5	—	—	1.00E+00	µg/L	—	J, J+	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.9	—	—	1.00E+00	µg/L	—	—	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	10.2	—	—	1.00E+00	µg/L	—	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	15.3	—	—	1.00E+00	µg/L	—	—	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	11.9	—	—	1.00E+00	µg/L	—	J	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	9.5	—	—	1.00E+00	µg/L	—	J+	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	9.7	—	—	1.00E+00	µg/L	—	—	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	10.9	—	—	1.00E+00	µg/L	—	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	3.36	—	—	2.00E+00	µg/L	J	J	09-1598	CAWR-09-7932	GELC
Sandia Spring	09/25/08	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	2.00E+00	µg/L	U	U	08-2023	CAWR-08-15467	GELC
Sandia Spring	09/18/07	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	2	—	—	2.00E+00	µg/L	U	—	194180	GF070900GSSW01	GELC
Sandia Spring	09/14/06	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	2.6	—	—	2.00E+00	µg/L	J	U	171922	GF060900GSSW01	GELC
Sandia Spring	09/08/05	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	2	—	—	2.00E+00	µg/L	U	—	145191	GF05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	6.23	—	—	2.00E+00	µg/L	J	J	09-1598	CAWR-09-7931	GELC
Sandia Spring	09/25/08	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	2.00E+00	µg/L	U	U	08-2023	CAWR-08-15466	GELC
Sandia Spring	09/18/07	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	2	—	—	2.00E+00	µg/L	U	—	194180	GU070900GSSW01	GELC
Sandia Spring	09/14/06	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	2.5	—	—	2.00E+00	µg/L	J	U	171922	GU060900GSSW01	GELC
Sandia Spring	09/08/05	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	2	—	—	2.00E+00	µg/L	U	—	145191	GU05090GSSW01	GELC
Sandia Spring	04/23/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.12772	9.58E-02	2.87E-01	—	pCi/L	U	U	09-1646	CAWR-09-7931	UMTL

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia Spring	09/25/08	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.602295	3.48E-01	3.45E+00	—	pCi/L	U	U	08-2032	CAWR-08-15466	ARSL
Sandia Spring	09/18/07	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.3193	9.58E-02	2.87E-01	—	pCi/L	—	U	2403	UU070900GSSW01	UMTL
Sandia Spring	09/14/06	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.25544	9.58E-02	2.87E-01	—	pCi/L	—	U	WG-05223-UM	UU060900GSSW01	UMTL
Sandia Spring	09/08/05	WG	UF	CS	—	Rad	EPA:906.0	Tritium	<	122	2.25E+01	2.21E+02	—	pCi/L	U	J, U	145191	GU05090GSSW01	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	140	—	—	7.30E-01	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	80.6	—	—	7.30E-01	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SM:A2320B	Alkalinity-CO3+HCO3	—	88.7	—	—	1.00E+00	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	FB	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	1.05	—	—	7.30E-01	mg/L	—	—	09-1531	CAWR-09-7976	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.196	—	—	1.60E-02	mg/L	—	J-	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	31	—	—	3.00E-02	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.1	—	—	3.00E-02	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	23.6	—	—	3.55E-02	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	36.6	—	—	3.00E-02	mg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.2	—	—	3.00E-02	mg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.59	—	—	6.60E-02	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2	—	—	6.60E-02	mg/L	—	J	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:9056	Chloride	—	2.21	—	—	2.60E-02	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.554	—	—	3.30E-02	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.533	—	—	3.30E-02	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	EPA:340.2	Fluoride	—	0.529	—	—	7.00E-03	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	106	—	—	3.50E-01	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	59.4	—	—	4.30E-01	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	75	—	—	1.03E-01	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	136	—	—	3.50E-01	mg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	60	—	—	4.30E-01	mg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	7.05	—	—	8.50E-02	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.04	—	—	8.50E-02	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.5	—	—	3.54E-03	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	10.9	—	—	8.50E-02	mg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.12	—	—	8.50E-02	mg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	5.94	—	—	5.00E-02	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.01	—	—	5.00E-02	mg/L	E	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.93	—	—	1.64E-02	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	8.21	—	—	5.00E-02	mg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.11	—	—	5.00E-02	mg/L	E	J	08-1051	CAWR-08-12126	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	73.8	—	—	1.86E-02	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.7	—	—	4.50E-02	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	4.50E-02	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13	—	—	1.30E-02	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.8	—	—	4.50E-02	mg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	4.50E-02	mg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	264	—	—	1.00E+00	µS/cm	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	165	—	—	1.00E+00	µS/cm	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:9050A	Specific Conductance	—	144	—	—	1.00E+00	µS/cm	—	—	32208	GM00091G01S	GELC
Spring 10	09/27/00	WG	F	DUP	—	Geninorg	SW-846:9050A	Specific Conductance	—	143	—	—	1.00E+00	µS/cm	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	FB	Geninorg	EPA:120.1	Specific Conductance	—	1.62	—	—	1.00E+00	µS/cm	—	—	09-1531	CAWR-09-7976	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.31	—	—	1.00E-01	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.1	—	—	1.00E-01	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	SW-846:9056	Sulfate	—	2.02	—	—	7.90E-02	mg/L	—	—	32208	GM00091G01S	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	361	—	—	1.40E+01	mg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	2.6	—	—	1.10E+00	mg/L	J	J	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	212	—	—	2.40E+00	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	161	—	—	2.40E+00	mg/L	—	J	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	183	—	—	6.29E+00	mg/L	—	—	32208	GM00091G01S	GELC
Spring 10	09/27/00	WG	F	DUP	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	175	—	—	6.29E+00	mg/L	—	J	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.609	—	—	3.30E-02	mg/L	—	J-	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.065	—	—	2.90E-02	mg/L	J	J	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	7.43	—	—	3.30E-01	mg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.694	—	—	3.30E-01	mg/L	J	J	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.141	—	—	1.50E-02	mg/L	—	J	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.114	—	—	2.40E-02	mg/L	—	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.04	—	—	2.00E-02	mg/L	J	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.45	—	—	1.00E-02	SU	H	J-	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.98	—	—	1.00E-02	SU	H	J-	08-1051	CAWR-08-12127	GELC
Spring 10	04/20/09	WG	UF	CS	FB	Geninorg	EPA:150.1	pH	—	6.42	—	—	1.00E-02	SU	H	J-	09-1531	CAWR-09-7976	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	—	96.3	—	—	6.80E+01	µg/L	J	J	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	19.9	—	—	2.34E+01	µg/L	B	U	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	12900	—	—	6.80E+01	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	588	—	—	6.80E+01	µg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6020	Antimony	—	0.862	—	—	5.00E-01	µg/L	J	J	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6020	Antimony	<	2	—	—	5.00E-01	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6020	Antimony	<	0.111	—	—	1.11E-01	µg/L	U	—	32208	GM00091G01S	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6020	Antimony	<	2	—	—	5.00E-01	µg/L	U	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	87.8	—	—	1.00E+00	µg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	18.8	—	—	1.00E+00	µg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	61.7	—	—	7.48E-01	µg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	153	—	—	1.00E+00	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	21.5	—	—	1.00E+00	µg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	26	—	—	1.00E+01	µg/L	J	J	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	4.04	—	—	4.74E+00	µg/L	B	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	32.3	—	—	1.00E+01	µg/L	J	J	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6020	Cadmium	<	1	—	—	1.10E-01	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Cadmium	<	0.631	—	—	6.31E-01	µg/L	U	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6020	Cadmium	—	0.271	—	—	1.10E-01	µg/L	J	J	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6020	Cadmium	<	1	—	—	1.10E-01	µg/L	U	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	—	3.11	—	—	1.00E+00	µg/L	J	J	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	<	5	—	—	1.00E+00	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	—	1.81	—	—	6.27E-01	µg/L	B	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Cobalt	—	4.09	—	—	1.00E+00	µg/L	J	J	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Cobalt	<	5	—	—	1.00E+00	µg/L	U	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	1.84	—	—	1.84E+00	µg/L	U	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Copper	—	8.84	—	—	3.00E+00	µg/L	J	J	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	82.2	—	—	2.50E+01	µg/L	J	J	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	2.50E+01	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	130	—	—	1.99E+01	µg/L	—	—	32208	GM00091G01S	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	10200	—	—	2.50E+01	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	396	—	—	2.50E+01	µg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Lead	<	1.83	—	—	1.83E+00	µg/L	U	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6020	Lead	—	9.82	—	—	5.00E-01	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	762	—	—	2.00E+00	µg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	27.7	—	—	2.00E+00	µg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	358	—	—	1.15E+00	µg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	756	—	—	2.00E+00	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	33.5	—	—	2.00E+00	µg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.22	—	—	1.00E-01	µg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.3	—	—	1.00E-01	µg/L	—	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Molybdenum	<	1.05	—	—	1.05E+00	µg/L	U	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.45	—	—	1.00E-01	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	0.73	—	—	1.00E-01	µg/L	—	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.78	—	—	5.00E-01	µg/L	J	J	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Nickel	<	1.47	—	—	3.09E+00	µg/L	B	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	7.15	—	—	2.50E+00	µg/L	J	J	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.6	—	—	3.20E-02	mg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.8	—	—	3.20E-02	mg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	181	—	—	1.00E+00	µg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	88.3	—	—	1.00E+00	µg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	130	—	—	4.69E-01	µg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	209	—	—	1.00E+00	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	88.6	—	—	1.00E+00	µg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.799	—	—	5.00E-02	µg/L	—	—	09-1531	CAWR-09-7947	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.5	—	—	5.00E-02	µg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.49	—	—	5.00E-02	µg/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.26	—	—	5.00E-02	µg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	10.9	—	—	1.00E+00	µg/L	—	—	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.08	—	—	8.90E-01	µg/L	—	—	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	18.5	—	—	1.00E+00	µg/L	—	J	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	11.6	—	—	1.00E+00	µg/L	—	—	08-1051	CAWR-08-12126	GELC
Spring 10	04/23/08	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	2.00E+00	µg/L	U	U	08-1051	CAWR-08-12127	GELC
Spring 10	09/27/00	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	1.92	—	—	3.89E+00	µg/L	B	U	32208	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	41.7	—	—	2.00E+00	µg/L	—	J	09-1531	CAWR-09-7948	GELC
Spring 10	04/23/08	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	3	—	—	2.00E+00	µg/L	J	U	08-1051	CAWR-08-12126	GELC
Spring 10	04/20/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha/beta	—	7.95	5.33E-01	2.40E+00	—	pCi/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 10	09/27/00	WG	F	CS	—	Rad	EPA:900	Gross beta	<	2.41	3.10E-01	2.94E+00	—	pCi/L	—	U	32009	GM00091G01S	GELC
Spring 10	04/20/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	18.5	5.67E-01	1.80E+00	—	pCi/L	—	—	09-1531	CAWR-09-7948	GELC
Spring 4	04/21/09	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	22.3	—	—	3.00E-02	mg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.9	—	—	3.00E-02	mg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.4	—	—	3.00E-02	mg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.9	—	—	3.00E-02	mg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.9	—	—	3.00E-02	mg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	23.3	—	—	3.60E-02	mg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Geninorg	SW-846:6010B	Calcium	—	23.4	—	—	3.00E-02	mg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.8	—	—	3.00E-02	mg/L	—	—	09-1579	CAWR-09-7934	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.4	—	—	3.00E-02	mg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.1	—	—	3.00E-02	mg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	24	—	—	3.00E-02	mg/L	—	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.5	—	—	3.60E-02	mg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	74	—	—	3.50E-01	mg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	76	—	—	3.50E-01	mg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	75.2	—	—	3.50E-01	mg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	73.1	—	—	4.30E-01	mg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	75.9	—	—	4.25E-01	mg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	77.2	—	—	4.40E-01	mg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Geninorg	SM:A2340B	Hardness	—	77.6	—	—	3.50E-01	mg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	75.9	—	—	3.50E-01	mg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	75.5	—	—	3.50E-01	mg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	73.5	—	—	4.30E-01	mg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	79.5	—	—	4.25E-01	mg/L	—	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	71.5	—	—	4.40E-01	mg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	4.43	—	—	8.50E-02	mg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.59	—	—	8.50E-02	mg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.72	—	—	8.50E-02	mg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.45	—	—	8.50E-02	mg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.54	—	—	8.50E-02	mg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.64	—	—	8.50E-02	mg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	4.69	—	—	8.50E-02	mg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.62	—	—	8.50E-02	mg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.74	—	—	8.50E-02	mg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.44	—	—	8.50E-02	mg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.78	—	—	8.50E-02	mg/L	—	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.33	—	—	8.50E-02	mg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	2.67	—	—	5.00E-02	mg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.69	—	—	5.00E-02	mg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.79	—	—	5.00E-02	mg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.64	—	—	5.00E-02	mg/L	E	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.47	—	—	5.00E-02	mg/L	E	J	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.85	—	—	5.00E-02	mg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Geninorg	SW-846:6010B	Potassium	—	2.82	—	—	5.00E-02	mg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.8	—	—	5.00E-02	mg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.86	—	—	5.00E-02	mg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.62	—	—	5.00E-02	mg/L	E	J	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.38	—	—	5.00E-02	mg/L	E	J	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.64	—	—	5.00E-02	mg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	4.50E-02	mg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.8	—	—	4.50E-02	mg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.8	—	—	4.50E-02	mg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.9	—	—	4.50E-02	mg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13	—	—	4.50E-02	mg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.4	—	—	4.50E-02	mg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Geninorg	SW-846:6010B	Sodium	—	14.1	—	—	4.50E-02	mg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.5	—	—	4.50E-02	mg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.9	—	—	4.50E-02	mg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13	—	—	4.50E-02	mg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	4.50E-02	mg/L	—	—	194647	GU070900G4SW01	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4	05/03/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.2	—	—	4.50E-02	mg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	09/29/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	215	—	—	1.00E+00	µS/cm	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	205	—	—	1.00E+00	µS/cm	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	220	—	—	1.00E+00	µS/cm	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	226	—	—	1.00E+00	µS/cm	—	—	185526	GF070400G4SW01	GELC
Spring 4	09/29/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.5	—	—	1.00E-02	SU	H	J-	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.7	—	—	1.00E-02	SU	H	J-	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.36	—	—	1.00E-02	SU	H	J	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.65	—	—	1.00E-02	SU	H	J	185526	GF070400G4SW01	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	UJ	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Aluminum	—	317	—	—	6.80E+01	µg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	634	—	—	6.80E+01	µg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	UN	UJ	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	75.7	—	—	6.80E+01	µg/L	J	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	41.8	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	42.6	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	40.8	—	—	1.00E+00	µg/L	E	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	39.5	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	41.2	—	—	1.00E+00	µg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	44.5	—	—	1.00E+00	µg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Barium	—	47.2	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	49.5	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	41.8	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	39.4	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	43.7	—	—	1.00E+00	µg/L	—	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	41.3	—	—	1.00E+00	µg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6010B	Boron	—	19.5	—	—	1.00E+01	µg/L	J	J	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	21.7	—	—	1.00E+01	µg/L	J	J	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	16.2	—	—	1.00E+01	µg/L	J	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	22.6	—	—	1.00E+01	µg/L	J	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Boron	—	20.2	—	—	1.00E+01	µg/L	J	J	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	22.2	—	—	1.00E+01	µg/L	J	J	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16.8	—	—	1.00E+01	µg/L	J	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	19.1	—	—	1.00E+01	µg/L	J	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6020	Chromium	—	5.33	—	—	1.50E+00	µg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	5.15	—	—	1.50E+00	µg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.2	—	—	1.50E+00	µg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.8	—	—	2.50E+00	µg/L	J	J	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	1.1	—	—	1.00E+00	µg/L	J	JN-	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.5	—	—	1.00E+00	µg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6020	Chromium	—	5.92	—	—	1.50E+00	µg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	5.3	—	—	1.50E+00	µg/L	—	—	09-1579	CAWR-09-7934	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3	—	—	1.50E+00	µg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3	—	—	2.50E+00	µg/L	J	J	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	1	—	—	1.00E+00	µg/L	U	UJ	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.2	—	—	1.00E+00	µg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	2.50E+01	µg/L	U	U	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	2.50E+01	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	25	—	—	2.50E+01	µg/L	U	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	48.5	—	—	1.80E+01	µg/L	J	U	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Iron	—	262	—	—	2.50E+01	µg/L	*	J	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	569	—	—	2.50E+01	µg/L	*	J	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	2.50E+01	µg/L	U	U	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	54.4	—	—	2.50E+01	µg/L	J	J	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	90.8	—	—	2.50E+01	µg/L	J	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	71.1	—	—	1.80E+01	µg/L	J	—	185526	GU070400G4SW01	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	2	—	—	2.00E+00	µg/L	U	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	2	—	—	2.00E+00	µg/L	U	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Manganese	—	4.09	—	—	2.00E+00	µg/L	J	J	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	9.09	—	—	2.00E+00	µg/L	J	J	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	2	—	—	2.00E+00	µg/L	U	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	2	—	—	2.00E+00	µg/L	U	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.12	—	—	1.00E-01	µg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.15	—	—	1.00E-01	µg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.1	—	—	1.00E-01	µg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.2	—	—	1.00E-01	µg/L	—	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Molybdenum	<	2.6	—	—	2.00E+00	µg/L	J	J+, U	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Molybdenum	—	2.4	—	—	2.00E+00	µg/L	J	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.13	—	—	1.00E-01	µg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.14	—	—	1.00E-01	µg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.2	—	—	1.00E-01	µg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.2	—	—	1.00E-01	µg/L	—	U	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Molybdenum	<	2	—	—	2.00E+00	µg/L	U	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Molybdenum	<	2	—	—	2.00E+00	µg/L	U	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6020	Nickel	—	0.583	—	—	5.00E-01	µg/L	J	J	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.592	—	—	5.00E-01	µg/L	J	J	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.62	—	—	5.00E-01	µg/L	J	J	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	0.5	—	—	5.00E-01	µg/L	U	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.67	—	—	5.00E-01	µg/L	J	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6020	Nickel	—	0.66	—	—	5.00E-01	µg/L	J	J	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.14	—	—	5.00E-01	µg/L	J	J	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.71	—	—	5.00E-01	µg/L	J	J	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	0.5	—	—	5.00E-01	µg/L	U	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.68	—	—	5.00E-01	µg/L	J	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6020	Selenium	—	1.69	—	—	1.00E+00	µg/L	J	J	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	1.68	—	—	1.00E+00	µg/L	J	J	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	2.2	—	—	1.00E+00	µg/L	J	J	09-20	CAWR-08-15503	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	5	—	—	1.00E+00	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	1	—	—	1.00E+00	µg/L	U	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	2.5	—	—	2.50E+00	µg/L	U	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6020	Selenium	—	1.84	—	—	1.00E+00	µg/L	J	J	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	1.5	—	—	1.00E+00	µg/L	J	J	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	1.2	—	—	1.00E+00	µg/L	J	J	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	1.1	—	—	1.00E+00	µg/L	J	J	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	1	—	—	1.00E+00	µg/L	U	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	2.5	—	—	2.50E+00	µg/L	U	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	130	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	131	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	136	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	125	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	134	—	—	1.00E+00	µg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	136	—	—	1.00E+00	µg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Strontium	—	136	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	132	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	137	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	125	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	139	—	—	1.00E+00	µg/L	—	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	127	—	—	1.00E+00	µg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	1	—	—	3.00E-01	µg/L	U	U	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	1	—	—	3.00E-01	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	0.3	—	—	3.00E-01	µg/L	U	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	0.4	—	—	4.00E-01	µg/L	U	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Thallium	—	0.367	—	—	3.00E-01	µg/L	J	J	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	1	—	—	3.00E-01	µg/L	U	U	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	1	—	—	3.00E-01	µg/L	U	U	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	0.3	—	—	3.00E-01	µg/L	U	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	0.4	—	—	4.00E-01	µg/L	U	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	1.14	—	—	5.00E-02	µg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.16	—	—	5.00E-02	µg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.95	—	—	5.00E-02	µg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.98	—	—	5.00E-02	µg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6020	Uranium	—	1.3	—	—	5.00E-02	µg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.44	—	—	5.00E-02	µg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1	—	—	5.00E-02	µg/L	—	—	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.1	—	—	5.00E-02	µg/L	—	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.3	—	—	5.00E-02	µg/L	—	—	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	9.07	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7978	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.23	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.9	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	10.8	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.3	—	—	1.00E+00	µg/L	—	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	10.8	—	—	1.00E+00	µg/L	—	J+	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Vanadium	—	10.2	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	10.5	—	—	1.00E+00	µg/L	—	—	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	10.4	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15502	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	11.2	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	9	—	—	1.00E+00	µg/L	—	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	9.8	—	—	1.00E+00	µg/L	—	J+	185526	GU070400G4SW01	GELC
Spring 4	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	2.22	—	—	2.00E+00	µg/L	J	J	09-1579	CAWR-09-7936	GELC
Spring 4	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	2.00E+00	µg/L	U	U	09-20	CAWR-08-15503	GELC
Spring 4	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	2.00E+00	µg/L	U	U	08-1065	CAWR-08-12101	GELC
Spring 4	09/24/07	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	2	—	—	2.00E+00	µg/L	U	—	194647	GF070900G4SW01	GELC
Spring 4	05/03/07	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	2.4	—	—	2.00E+00	µg/L	J	—	185526	GF070400G4SW01	GELC
Spring 4	04/21/09	WG	UF	CS	FD	Metals	SW-846:6010B	Zinc	—	3.26	—	—	2.00E+00	µg/L	J	J	09-1579	CAWR-09-7979	GELC
Spring 4	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	7.03	—	—	2.00E+00	µg/L	J	J	09-1579	CAWR-09-7934	GELC
Spring 4	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	3	—	—	2.00E+00	µg/L	J	J	09-20	CAWR-08-15502	GELC
Spring 4	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	2.00E+00	µg/L	U	U	08-1065	CAWR-08-12099	GELC
Spring 4	09/24/07	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	3.2	—	—	2.00E+00	µg/L	J	—	194647	GU070900G4SW01	GELC
Spring 4	05/03/07	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	2	—	—	2.00E+00	µg/L	U	—	185526	GU070400G4SW01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	79.3	—	—	7.30E-01	mg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	79.5	—	—	7.30E-01	mg/L	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	78.6	—	—	7.30E-01	mg/L	—	—	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	79	—	—	7.25E-01	mg/L	—	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	80.3	—	—	7.25E-01	mg/L	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.046	—	—	1.60E-02	mg/L	J	J-	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.03	—	—	3.00E-02	mg/L	U	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.03	—	—	3.00E-02	mg/L	U	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.075	—	—	6.60E-02	mg/L	J	J	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.70E-02	mg/L	U	U	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0763	—	—	6.70E-02	mg/L	J	J	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.066	—	—	6.60E-02	mg/L	U	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.128	—	—	6.60E-02	mg/L	J	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.15	—	—	6.60E-02	mg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.1	—	—	6.60E-02	mg/L	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.22	—	—	6.60E-02	mg/L	—	J	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	4.53	—	—	6.60E-02	mg/L	—	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.12	—	—	6.60E-02	mg/L	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.498	—	—	3.30E-02	mg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.519	—	—	3.30E-02	mg/L	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.535	—	—	3.30E-02	mg/L	—	—	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.388	—	—	3.30E-02	mg/L	—	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.494	—	—	3.30E-02	mg/L	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.13	—	—	5.00E-02	mg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.975	—	—	5.00E-02	mg/L	—	J	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.16	—	—	5.00E-02	mg/L	—	—	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.995	—	—	5.00E-02	mg/L	—	J	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.6	—	—	1.00E-01	mg/L	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.623	—	—	5.00E-02	µg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.551	—	—	5.00E-02	µg/L	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.531	—	—	5.00E-02	µg/L	—	J	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.529	—	—	5.00E-02	µg/L	—	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.527	—	—	5.00E-02	µg/L	—	J-	185416	GF070400GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:314.0	Perchlorate	<	4	—	—	4.00E+00	µg/L	U	—	185416	GF070400GA4S01	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	67.4	—	—	3.20E-02	mg/L	—	—	194647	GF070900GA4S01	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	69	—	—	3.20E-02	mg/L	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	191	—	—	1.00E+00	µS/cm	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	203	—	—	1.00E+00	µS/cm	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	193	—	—	1.00E+00	µS/cm	—	—	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	189	—	—	1.00E+00	µS/cm	—	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	206	—	—	1.00E+00	µS/cm	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.36	—	—	1.00E-01	mg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.28	—	—	1.00E-01	mg/L	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.22	—	—	1.00E-01	mg/L	—	—	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.29	—	—	1.00E-01	mg/L	—	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.38	—	—	1.00E-01	mg/L	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	1.8	—	—	1.10E+00	mg/L	J	J	09-1579	CAWR-09-7944	GELC
Spring 4A	09/29/08	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	21.4	—	—	1.30E+00	mg/L	—	—	09-26	CAWR-08-15512	GELC
Spring 4A	04/24/08	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	<	5	—	—	1.10E+00	mg/L	U	U	08-1061	CAWR-08-12111	GELC
Spring 4A	09/24/07	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	<	1.14	—	—	1.14E+00	mg/L	U	—	194647	GU070900GA4S01	GELC
Spring 4A	05/02/07	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	<	1.14	—	—	1.14E+00	mg/L	U	—	185416	GU070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	170	—	—	2.40E+00	mg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	169	—	—	2.40E+00	mg/L	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	170	—	—	2.40E+00	mg/L	—	J	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	168	—	—	2.38E+00	mg/L	—	—	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	185	—	—	2.38E+00	mg/L	—	—	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.736	—	—	3.30E-01	mg/L	J	J	09-1577	CAWR-09-7944	GELC
Spring 4A	09/29/08	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.04	—	—	3.30E-01	mg/L	—	—	09-25	CAWR-08-15512	GELC
Spring 4A	04/24/08	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.958	—	—	3.30E-01	mg/L	J	J	08-1061	CAWR-08-12111	GELC
Spring 4A	05/02/07	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.736	—	—	3.30E-01	mg/L	J	—	185416	GU070400GA4S01	GELC
Spring 4A	09/18/06	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.453	—	—	3.30E-01	mg/L	J	—	172311	GU060900GA4S02	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.016	—	—	1.50E-02	mg/L	J	J	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.079	—	—	2.40E-02	mg/L	—	U	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.086	—	—	2.40E-02	mg/L	—	U	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.066	—	—	2.40E-02	mg/L	—	U	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.046	—	—	2.40E-02	mg/L	J	U	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.92	—	—	1.00E-02	SU	H	J-	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.79	—	—	1.00E-02	SU	H	J-	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.84	—	—	1.00E-02	SU	H	J-	08-1061	CAWR-08-12113	GELC
Spring 4A	09/24/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.04	—	—	1.00E-02	SU	H	J	194647	GF070900GA4S01	GELC
Spring 4A	05/02/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.81	—	—	1.00E-02	SU	H	J	185416	GF070400GA4S01	GELC
Spring 4A	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.6	—	—	3.20E-02	mg/L	—	—	09-1579	CAWR-09-7943	GELC
Spring 4A	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.5	—	—	3.20E-02	mg/L	—	—	09-26	CAWR-08-15515	GELC
Spring 4A	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.4	—	—	3.20E-02	mg/L	—	—	08-1061	CAWR-08-12113	GELC
Spring 4A	04/21/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.51088	9.58E-02	2.87E-01	—	pCi/L	—	U	09-1580	CAWR-09-7944	UMTL
Spring 4A	09/29/08	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.28737	2.62E-01	2.68E+00	—	pCi/L	U	U	09-31	CAWR-08-15512	ARSL
Spring 4A	04/24/08	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.57474	9.58E-02	2.87E-01	—	pCi/L	—	U	08-1079	CAWR-08-12111	UMTL
Spring 4A	09/24/07	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.35123	9.58E-02	2.87E-01	—	pCi/L	—	U	2409	UU070900GA4S01	UMTL
Spring 4A	05/02/07	WG	UF	CS	—	Rad	LLEE	Tritium	—	0.98983	9.58E-02	2.87E-01	—	pCi/L	—	J	2337	UU070400GA4S01	UMTL
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	81.9	—	—	7.30E-01	mg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	84.2	—	—	7.30E-01	mg/L	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	81.2	—	—	7.30E-01	mg/L	—	—	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	84.7	—	—	7.25E-01	mg/L	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	82.4	—	—	7.25E-01	mg/L	—	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.033	—	—	1.60E-02	mg/L	J	J-	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	09-26	CAWR-08-15518	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.03	—	—	3.00E-02	mg/L	U	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.03	—	—	3.00E-02	mg/L	U	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.084	—	—	6.60E-02	mg/L	J	J	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.084	—	—	6.70E-02	mg/L	J	J	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0689	—	—	6.70E-02	mg/L	J	J	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.066	—	—	6.60E-02	mg/L	U	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.1	—	—	6.60E-02	mg/L	J	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.59	—	—	6.60E-02	mg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.75	—	—	6.60E-02	mg/L	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.67	—	—	6.60E-02	mg/L	—	J	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.7	—	—	6.60E-02	mg/L	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	5.52	—	—	6.60E-02	mg/L	—	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.506	—	—	3.30E-02	mg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.527	—	—	3.30E-02	mg/L	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.488	—	—	3.30E-02	mg/L	—	—	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.48	—	—	3.30E-02	mg/L	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.492	—	—	3.30E-02	mg/L	—	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.18	—	—	5.00E-02	mg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.86	—	—	5.00E-02	mg/L	—	J	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.22	—	—	5.00E-02	mg/L	—	J	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.02	—	—	5.00E-02	mg/L	—	J	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.66	—	—	1.00E-01	mg/L	—	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.629	—	—	5.00E-02	µg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.564	—	—	5.00E-02	µg/L	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.56	—	—	5.00E-02	µg/L	—	J	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.58	—	—	5.00E-02	µg/L	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:314.0	Perchlorate	<	4	—	—	4.00E+00	µg/L	U	—	185416	GF070400GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.568	—	—	5.00E-02	µg/L	—	J-	185416	GF070400GAA401	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	69.6	—	—	3.20E-02	mg/L	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	68	—	—	3.20E-02	mg/L	—	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	201	—	—	1.00E+00	µS/cm	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	210	—	—	1.00E+00	µS/cm	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	198	—	—	1.00E+00	µS/cm	—	—	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	207	—	—	1.00E+00	µS/cm	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	212	—	—	1.00E+00	µS/cm	—	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.9	—	—	1.00E-01	mg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.96	—	—	1.00E-01	mg/L	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.79	—	—	1.00E-01	mg/L	—	—	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.78	—	—	1.00E-01	mg/L	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.71	—	—	1.00E-01	mg/L	—	—	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	2.4	—	—	1.10E+00	mg/L	J	J	09-1579	CAWR-09-7946	GELC
Spring 4AA	09/29/08	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	2.12	—	—	1.30E+00	mg/L	J	J	09-26	CAWR-08-15516	GELC
Spring 4AA	04/24/08	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	3.8	—	—	1.10E+00	mg/L	J	J	08-1059	CAWR-08-12109	GELC
Spring 4AA	09/24/07	WG	UF	CS	—	Geninorg	EPA:160.2	Suspended Sediment Concentration	—	1.4	—	—	1.14E+00	mg/L	J	—	194647	GU070900GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	169	—	—	2.40E+00	mg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	170	—	—	2.40E+00	mg/L	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	166	—	—	2.40E+00	mg/L	—	J	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	180	—	—	2.38E+00	mg/L	—	—	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	170	—	—	2.38E+00	mg/L	—	—	185416	GF070400GAA401	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.063	—	—	2.90E-02	mg/L	J	JN-	194647	GF070900GAA401	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4AA	04/21/09	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.067	—	—	3.30E-02	mg/L	J	J	09-1577	CAWR-09-7946	GELC
Spring 4AA	09/29/08	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.1	—	—	2.90E-02	mg/L	U	U	09-25	CAWR-08-15516	GELC
Spring 4AA	04/24/08	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.1	—	—	2.90E-02	mg/L	U	U	08-1059	CAWR-08-12109	GELC
Spring 4AA	09/24/07	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.029	—	—	2.90E-02	mg/L	U	UJ	194647	GU070900GAA401	GELC
Spring 4AA	04/21/09	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.884	—	—	3.30E-01	mg/L	J	J	09-1577	CAWR-09-7946	GELC
Spring 4AA	09/29/08	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.958	—	—	3.30E-01	mg/L	J	J	09-25	CAWR-08-15516	GELC
Spring 4AA	04/24/08	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.2	—	—	3.30E-01	mg/L	—	—	08-1059	CAWR-08-12109	GELC
Spring 4AA	09/24/07	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.454	—	—	3.30E-01	mg/L	J	—	194647	GU070900GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.92	—	—	1.00E-02	SU	H	J-	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.67	—	—	1.00E-02	SU	H	J-	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.78	—	—	1.00E-02	SU	H	J-	08-1059	CAWR-08-12108	GELC
Spring 4AA	09/24/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.47	—	—	1.00E-02	SU	H	J	194647	GF070900GAA401	GELC
Spring 4AA	05/02/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.65	—	—	1.00E-02	SU	H	J	185416	GF070400GAA401	GELC
Spring 4AA	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	66.4	—	—	3.20E-02	mg/L	—	—	09-1579	CAWR-09-7945	GELC
Spring 4AA	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70.7	—	—	3.20E-02	mg/L	—	—	09-26	CAWR-08-15518	GELC
Spring 4AA	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.7	—	—	3.20E-02	mg/L	—	—	08-1059	CAWR-08-12108	GELC
Spring 4AA	04/21/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	1.82001	9.58E-02	2.87E-01	—	pCi/L	—	—	09-1580	CAWR-09-7946	UMTL
Spring 4AA	09/29/08	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.526254	2.99E-01	2.85E+00	—	pCi/L	U	U	09-31	CAWR-08-15516	ARSL
Spring 4AA	04/24/08	WG	UF	CS	—	Rad	LLEE	Tritium	—	2.13931	9.58E-02	2.87E-01	—	pCi/L	—	—	08-1077	CAWR-08-12109	UMTL
Spring 4AA	09/24/07	WG	UF	CS	—	Rad	LLEE	Tritium	—	2.13931	9.58E-02	2.87E-01	—	pCi/L	—	—	2409	UU070900GAA401	UMTL
Spring 4B	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.8	—	—	3.00E-02	mg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.3	—	—	3.00E-02	mg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	24.8	—	—	3.00E-02	mg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.4	—	—	3.00E-02	mg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.8	—	—	3.60E-02	mg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.5	—	—	3.00E-02	mg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.5	—	—	3.00E-02	mg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.4	—	—	3.00E-02	mg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	27	—	—	3.00E-02	mg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	27.3	—	—	3.60E-02	mg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	87.2	—	—	3.50E-01	mg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	87	—	—	3.50E-01	mg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	83.1	—	—	4.30E-01	mg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	88.3	—	—	4.25E-01	mg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	90.1	—	—	4.40E-01	mg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	86.2	—	—	3.50E-01	mg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	87.4	—	—	3.50E-01	mg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	84.9	—	—	4.30E-01	mg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	90.6	—	—	4.25E-01	mg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	92.3	—	—	4.40E-01	mg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.52	—	—	8.50E-02	mg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.79	—	—	8.50E-02	mg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.15	—	—	8.50E-02	mg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.41	—	—	8.50E-02	mg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.6	—	—	8.50E-02	mg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.46	—	—	8.50E-02	mg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.79	—	—	8.50E-02	mg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.24	—	—	8.50E-02	mg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.65	—	—	8.50E-02	mg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.87	—	—	8.50E-02	mg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.66	—	—	5.00E-02	mg/L	—	—	09-1556	CAWR-09-7937	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4B	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.74	—	—	5.00E-02	mg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.54	—	—	5.00E-02	mg/L	E	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.55	—	—	5.00E-02	mg/L	E	J	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.81	—	—	5.00E-02	mg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.67	—	—	5.00E-02	mg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.9	—	—	5.00E-02	mg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.58	—	—	5.00E-02	mg/L	E	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.46	—	—	5.00E-02	mg/L	E	J	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.95	—	—	5.00E-02	mg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	4.50E-02	mg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	4.50E-02	mg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.4	—	—	4.50E-02	mg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.5	—	—	4.50E-02	mg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.2	—	—	4.50E-02	mg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.3	—	—	4.50E-02	mg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	4.50E-02	mg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.4	—	—	4.50E-02	mg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.4	—	—	4.50E-02	mg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.4	—	—	4.50E-02	mg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	09/29/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	234	—	—	1.00E+00	µS/cm	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	227	—	—	1.00E+00	µS/cm	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	234	—	—	1.00E+00	µS/cm	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	245	—	—	1.00E+00	µS/cm	—	—	185322	GF070400GB4S01	GELC
Spring 4B	09/29/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.67	—	—	1.00E-02	SU	H	J-	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.83	—	—	1.00E-02	SU	H	J-	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.75	—	—	1.00E-02	SU	H	J	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.16	—	—	1.00E-02	SU	H	J	185322	GF070400GB4S01	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	68	—	—	6.80E+01	µg/L	U	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	278	—	—	6.80E+01	µg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	560	—	—	6.80E+01	µg/L	N	J+	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	280	—	—	6.80E+01	µg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	381	—	—	6.80E+01	µg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	1280	—	—	6.80E+01	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	2.18	—	—	1.50E+00	µg/L	J	J	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	1.8	—	—	1.50E+00	µg/L	J	J	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	3.9	—	—	1.50E+00	µg/L	J	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	2.3	—	—	1.50E+00	µg/L	J	U	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	2.34	—	—	1.50E+00	µg/L	J	J	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	2.3	—	—	1.50E+00	µg/L	J	J	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	4.5	—	—	1.50E+00	µg/L	J	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	3.4	—	—	1.50E+00	µg/L	J	U	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	47.4	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	49.1	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	45.6	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	52.2	—	—	1.00E+00	µg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	51.4	—	—	1.00E+00	µg/L	—	—	185322	GF070400GB4S01	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	48.4	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	51.6	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	49.2	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	53.3	—	—	1.00E+00	µg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	60.8	—	—	1.00E+00	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	23.9	—	—	1.00E+01	µg/L	J	J	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	18.2	—	—	1.00E+01	µg/L	J	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	26.7	—	—	1.00E+01	µg/L	J	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	22.5	—	—	1.00E+01	µg/L	J	J	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	19.5	—	—	1.00E+01	µg/L	J	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	22.7	—	—	1.00E+01	µg/L	J	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	1.66	—	—	1.50E+00	µg/L	J	J	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.5	—	—	1.50E+00	µg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.7	—	—	2.50E+00	µg/L	J	J	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	1	—	—	1.00E+00	µg/L	U	UJ	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.1	—	—	1.00E+00	µg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.39	—	—	1.50E+00	µg/L	J	J	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.7	—	—	1.50E+00	µg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.5	—	—	2.50E+00	µg/L	J	J	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	1	—	—	1.00E+00	µg/L	U	UJ	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.6	—	—	1.00E+00	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	2.50E+01	µg/L	U	U	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	2.50E+01	µg/L	U	U	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	41.9	—	—	2.50E+01	µg/L	J	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	138	—	—	1.80E+01	µg/L	—	J+	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	235	—	—	2.50E+01	µg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	417	—	—	2.50E+01	µg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	218	—	—	2.50E+01	µg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	332	—	—	2.50E+01	µg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	1150	—	—	1.80E+01	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	11.4	—	—	2.00E+00	µg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	12.8	—	—	2.00E+00	µg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	4.73	—	—	2.00E+00	µg/L	J	J	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	5.7	—	—	2.00E+00	µg/L	J	J	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	8.5	—	—	2.00E+00	µg/L	J	J	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	21.7	—	—	2.00E+00	µg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	14.7	—	—	2.00E+00	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.77	—	—	5.00E-01	µg/L	J	J	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	0.5	—	—	5.00E-01	µg/L	U	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.7	—	—	5.00E-01	µg/L	J	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.556	—	—	5.00E-01	µg/L	J	J	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.3	—	—	5.00E-01	µg/L	J	J	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.55	—	—	5.00E-01	µg/L	J	J	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.75	—	—	5.00E-01	µg/L	J	—	194647	GU070900GB4S01	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.4	—	—	5.00E-01	µg/L	J	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	1.36	—	—	1.00E+00	µg/L	J	J	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	5	—	—	1.00E+00	µg/L	U	U	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	1	—	—	1.00E+00	µg/L	J	J	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	1	—	—	1.00E+00	µg/L	U	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	2.5	—	—	2.50E+00	µg/L	U	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	1.62	—	—	1.00E+00	µg/L	J	J	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	5	—	—	1.00E+00	µg/L	U	U	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	5	—	—	1.00E+00	µg/L	U	U	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	1	—	—	1.00E+00	µg/L	U	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	2.5	—	—	2.50E+00	µg/L	U	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	153	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	157	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	143	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	156	—	—	1.00E+00	µg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	162	—	—	1.00E+00	µg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	151	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	158	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	145	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	158	—	—	1.00E+00	µg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	167	—	—	1.00E+00	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.56	—	—	5.00E-02	µg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.4	—	—	5.00E-02	µg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.4	—	—	5.00E-02	µg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.2	—	—	5.00E-02	µg/L	—	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.5	—	—	5.00E-02	µg/L	—	—	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.66	—	—	5.00E-02	µg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.8	—	—	5.00E-02	µg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.6	—	—	5.00E-02	µg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.3	—	—	5.00E-02	µg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.8	—	—	5.00E-02	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	7.04	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7937	GELC
Spring 4B	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	8	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15507	GELC
Spring 4B	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.3	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12104	GELC
Spring 4B	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.8	—	—	1.00E+00	µg/L	J	—	194647	GF070900GB4S01	GELC
Spring 4B	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	10.2	—	—	1.00E+00	µg/L	—	J+	185322	GF070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	7.29	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	9.4	—	—	1.00E+00	µg/L	—	—	09-20	CAWR-08-15504	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	9.7	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	7.8	—	—	1.00E+00	µg/L	—	—	194647	GU070900GB4S01	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	12.3	—	—	1.00E+00	µg/L	—	—	185322	GU070400GB4S01	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Svoa	SW-846:8270C	Naphthalene	<	1.09	—	—	3.30E-01	µg/L	U	U	09-19	CAWR-08-15506	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Svoa	SW-846:8270C	Naphthalene	<	1.18	—	—	3.50E-01	µg/L	U	U	08-1064	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Svoa	SW-846:8270C	Naphthalene	<	1.03	—	—	3.09E-01	µg/L	U	—	194557	GU070900GB4S02	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Svoa	SW-846:8270C	Naphthalene	<	1.1	—	—	3.30E-01	µg/L	U	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	—	Voa	SW-846:8260B	Butanone[2-]	—	1.73	—	—	1.30E+00	µg/L	J	J	09-1555	CAWR-09-7939	GELC
Spring 4B	09/29/08	WG	UF	CS	—	Voa	SW-846:8260B	Butanone[2-]	—	1.62	—	—	1.30E+00	µg/L	J	J	09-19	CAWR-08-15506	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Voa	SW-846:8260B	Butanone[2-]	—	1.77	—	—	1.30E+00	µg/L	J	J	08-1064	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Voa	SW-846:8260B	Butanone[2-]	<	5	—	—	1.25E+00	µg/L	U	—	194557	GU070900GB4S02	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Voa	SW-846:8260B	Butanone[2-]	<	5	—	—	1.25E+00	µg/L	U	—	185322	GU070400GB4S01	GELC
Spring 4B	04/21/09	WG	UF	CS	FTB	Voa	SW-846:8260B	Naphthalene	—	0.269	—	—	2.50E-01	µg/L	J	J	09-1555	CAWR-09-7938	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4B	09/29/08	WG	UF	CS	—	Voa	SW-846:8260B	Naphthalene	<	1	—	—	2.50E-01	µg/L	U	U	09-19	CAWR-08-15506	GELC
Spring 4B	04/24/08	WG	UF	CS	—	Voa	SW-846:8260B	Naphthalene	<	1	—	—	2.50E-01	µg/L	U	U	08-1064	CAWR-08-12102	GELC
Spring 4B	09/25/07	WG	UF	CS	—	Voa	SW-846:8260B	Naphthalene	<	1	—	—	2.50E-01	µg/L	U	—	194557	GU070900GB4S02	GELC
Spring 4B	05/01/07	WG	UF	CS	—	Voa	SW-846:8260B	Naphthalene	<	1	—	—	2.50E-01	µg/L	U	—	185322	GU070400GB4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	78.8	—	—	7.30E-01	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	77.4	—	—	7.30E-01	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	77.5	—	—	7.30E-01	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	79	—	—	7.25E-01	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	80.3	—	—	7.25E-01	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.019	—	—	1.60E-02	mg/L	J	J-	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	3.00E-02	mg/L	U	U	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.03	—	—	3.00E-02	mg/L	U	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.03	—	—	3.00E-02	mg/L	U	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.112	—	—	6.60E-02	mg/L	J	J	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.093	—	—	6.70E-02	mg/L	J	J	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0757	—	—	6.70E-02	mg/L	J	J	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.066	—	—	6.60E-02	mg/L	U	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.185	—	—	6.60E-02	mg/L	J	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.1	—	—	3.00E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.7	—	—	3.00E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.7	—	—	3.00E-02	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.5	—	—	3.00E-02	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	23.1	—	—	3.60E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.6	—	—	3.00E-02	mg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.8	—	—	3.00E-02	mg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.4	—	—	3.00E-02	mg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	23	—	—	3.00E-02	mg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	23.1	—	—	3.60E-02	mg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	6.33	—	—	6.60E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	6.3	—	—	6.60E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	6.38	—	—	6.60E-02	mg/L	—	J	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	6.29	—	—	6.60E-02	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	6.34	—	—	6.60E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.469	—	—	3.30E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.49	—	—	3.30E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.472	—	—	3.30E-02	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.445	—	—	3.30E-02	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.487	—	—	3.30E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	73.9	—	—	3.50E-01	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	73	—	—	3.50E-01	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	71.8	—	—	4.30E-01	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	71.6	—	—	4.25E-01	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	76.8	—	—	4.40E-01	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	72.3	—	—	3.50E-01	mg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	77.1	—	—	3.50E-01	mg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	70.8	—	—	4.30E-01	mg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	76.7	—	—	4.25E-01	mg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	76.9	—	—	4.40E-01	mg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.56	—	—	8.50E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.55	—	—	8.50E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.29	—	—	8.50E-02	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.36	—	—	8.50E-02	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.66	—	—	8.50E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.48	—	—	8.50E-02	mg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.88	—	—	8.50E-02	mg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.21	—	—	8.50E-02	mg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.67	—	—	8.50E-02	mg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.67	—	—	8.50E-02	mg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.36	—	—	5.00E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.32	—	—	5.00E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.27	—	—	5.00E-02	mg/L	—	J	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.38	—	—	5.00E-02	mg/L	—	J	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.32	—	—	1.00E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.68	—	—	5.00E-02	µg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.626	—	—	5.00E-02	µg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.628	—	—	5.00E-02	µg/L	—	J	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.653	—	—	5.00E-02	µg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.702	—	—	5.00E-02	µg/L	—	J-	185322	GF070400GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:314.0	Perchlorate	<	4	—	—	4.00E+00	µg/L	U	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.71	—	—	5.00E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.75	—	—	5.00E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.62	—	—	5.00E-02	mg/L	E	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.16	—	—	5.00E-02	mg/L	E	J	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.93	—	—	5.00E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.66	—	—	5.00E-02	mg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.92	—	—	5.00E-02	mg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.61	—	—	5.00E-02	mg/L	E	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.37	—	—	5.00E-02	mg/L	E	J	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.94	—	—	5.00E-02	mg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	51.1	—	—	3.20E-02	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Silicon Dioxide	—	55.4	—	—	3.20E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	4.50E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.5	—	—	4.50E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.5	—	—	4.50E-02	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.2	—	—	4.50E-02	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.1	—	—	4.50E-02	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.4	—	—	4.50E-02	mg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.2	—	—	4.50E-02	mg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.3	—	—	4.50E-02	mg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.2	—	—	4.50E-02	mg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14	—	—	4.50E-02	mg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	204	—	—	1.00E+00	µS/cm	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	210	—	—	1.00E+00	µS/cm	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	205	—	—	1.00E+00	µS/cm	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	209	—	—	1.00E+00	µS/cm	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	222	—	—	1.00E+00	µS/cm	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.44	—	—	1.00E-01	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.18	—	—	1.00E-01	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.33	—	—	1.00E-01	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	8.99	—	—	1.00E-01	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.3	—	—	1.00E-01	mg/L	—	—	185322	GF070400GC4S01	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	156	—	—	2.40E+00	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	150	—	—	2.40E+00	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	158	—	—	2.40E+00	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	172	—	—	2.38E+00	mg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	172	—	—	2.38E+00	mg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.029	—	—	2.90E-02	mg/L	U	UJ	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.029	—	—	2.90E-02	mg/L	U	UJ	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.092	—	—	3.30E-02	mg/L	J	J	09-1555	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.1	—	—	2.90E-02	mg/L	U	U	09-25	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.1	—	—	2.90E-02	mg/L	U	U	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.033	—	—	2.90E-02	mg/L	J	JN-	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.136	—	—	2.90E-02	mg/L	—	JN-	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.16	—	—	3.30E-01	mg/L	—	—	09-1555	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.936	—	—	3.30E-01	mg/L	J	J	09-25	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.858	—	—	3.30E-01	mg/L	J	J	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	0.33	—	—	3.30E-01	mg/L	U	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.528	—	—	3.30E-01	mg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.021	—	—	1.50E-02	mg/L	J	J	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.095	—	—	2.40E-02	mg/L	—	U	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.098	—	—	2.40E-02	mg/L	—	U	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.033	—	—	2.40E-02	mg/L	J	U	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.048	—	—	2.40E-02	mg/L	J	U	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.88	—	—	1.00E-02	SU	H	J-	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.82	—	—	1.00E-02	SU	H	J-	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.72	—	—	1.00E-02	SU	H	J-	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.92	—	—	1.00E-02	SU	H	J	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.81	—	—	1.00E-02	SU	H	J	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	4.03	—	—	1.50E+00	µg/L	J	J	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	1.6	—	—	1.50E+00	µg/L	J	J	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	6.1	—	—	1.50E+00	µg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	4.2	—	—	1.50E+00	µg/L	J	U	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	3.41	—	—	1.50E+00	µg/L	J	J	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	3.1	—	—	1.50E+00	µg/L	J	J	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	4	—	—	1.50E+00	µg/L	J	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	3.7	—	—	1.50E+00	µg/L	J	U	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	42.1	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	41.9	—	—	1.00E+00	µg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	40.6	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	39.8	—	—	1.00E+00	µg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	45.3	—	—	1.00E+00	µg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	41.3	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	43.1	—	—	1.00E+00	µg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	39.7	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	43.1	—	—	1.00E+00	µg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	45.3	—	—	1.00E+00	µg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	20.2	—	—	1.00E+01	µg/L	J	J	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	14.7	—	—	1.00E+01	µg/L	J	—	194647	GF070900GC4S01	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	20.5	—	—	1.00E+01	µg/L	J	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	20.3	—	—	1.00E+01	µg/L	J	J	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.00E+01	µg/L	U	U	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	17.2	—	—	1.00E+01	µg/L	J	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	22.1	—	—	1.00E+01	µg/L	J	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.43	—	—	1.50E+00	µg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.9	—	—	1.50E+00	µg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.1	—	—	2.50E+00	µg/L	J	J	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	1	—	—	1.00E+00	µg/L	U	UJ	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.4	—	—	1.00E+00	µg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.28	—	—	1.50E+00	µg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.2	—	—	1.50E+00	µg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.2	—	—	2.50E+00	µg/L	J	J	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	1.9	—	—	1.00E+00	µg/L	J	JN-	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.6	—	—	1.00E+00	µg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	1.85	—	—	1.00E+00	µg/L	J	J	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	1.2	—	—	1.00E+00	µg/L	J	J	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	1.4	—	—	1.00E+00	µg/L	J	J	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	1	—	—	1.00E+00	µg/L	U	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	2.5	—	—	2.50E+00	µg/L	U	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	1.19	—	—	1.00E+00	µg/L	J	J	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	5	—	—	1.00E+00	µg/L	U	U	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	1.5	—	—	1.00E+00	µg/L	J	J	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	1	—	—	1.00E+00	µg/L	U	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	2.5	—	—	2.50E+00	µg/L	U	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	52.5	—	—	3.20E-02	mg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	53.5	—	—	3.20E-02	mg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	50.7	—	—	3.20E-02	mg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	125	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	129	—	—	1.00E+00	µg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	119	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	120	—	—	1.00E+00	µg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	131	—	—	1.00E+00	µg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	122	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	136	—	—	1.00E+00	µg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	117	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	129	—	—	1.00E+00	µg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	131	—	—	1.00E+00	µg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.13	—	—	5.00E-02	µg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.3	—	—	5.00E-02	µg/L	—	—	09-26	CAWR-08-15510	GELC
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.93	—	—	5.00E-02	µg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.9	—	—	5.00E-02	µg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.3	—	—	5.00E-02	µg/L	—	—	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.21	—	—	5.00E-02	µg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.4	—	—	5.00E-02	µg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.96	—	—	5.00E-02	µg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	2	—	—	5.00E-02	µg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.2	—	—	5.00E-02	µg/L	—	—	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.09	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7942	GELC
Spring 4C	09/29/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.7	—	—	1.00E+00	µg/L	—	—	09-26	CAWR-08-15510	GELC

Table D-2 Analytical Results

Location	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Units	Lab Qual	2nd Qual	Request	Sample	Lab
Spring 4C	04/24/08	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	10.5	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12105	GELC
Spring 4C	09/25/07	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	8.3	—	—	1.00E+00	µg/L	—	—	194647	GF070900GC4S01	GELC
Spring 4C	05/01/07	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.7	—	—	1.00E+00	µg/L	—	J+	185322	GF070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	8.53	—	—	1.00E+00	µg/L	—	—	09-1556	CAWR-09-7940	GELC
Spring 4C	09/29/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	10.1	—	—	1.00E+00	µg/L	—	—	09-26	CAWR-08-15508	GELC
Spring 4C	04/24/08	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	10.3	—	—	1.00E+00	µg/L	—	—	08-1065	CAWR-08-12106	GELC
Spring 4C	09/25/07	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	9	—	—	1.00E+00	µg/L	—	—	194647	GU070900GC4S01	GELC
Spring 4C	05/01/07	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	10	—	—	1.00E+00	µg/L	—	J+	185322	GU070400GC4S01	GELC
Spring 4C	04/21/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	8.07829	9.58E-02	2.87E-01	—	pCi/L	—	—	09-1557	CAWR-09-7940	UMTL
Spring 4C	09/29/08	WG	UF	CS	—	Rad	LLEE	Tritium	<	4.66178	3.73E-01	2.68E+00	—	pCi/L	—	U	09-31	CAWR-08-15508	ARSL
Spring 4C	04/24/08	WG	UF	CS	—	Rad	LLEE	Tritium	—	7.91864	9.58E-02	2.87E-01	—	pCi/L	—	—	08-1078	CAWR-08-12106	UMTL
Spring 4C	09/25/07	WG	UF	CS	—	Rad	LLEE	Tritium	—	8.11022	9.58E-02	2.87E-01	—	pCi/L	—	—	2409	UU070900GC4S01	UMTL
Spring 4C	05/01/07	WG	UF	CS	—	Rad	LLEE	Tritium	—	9.38742	1.06E-01	2.87E-01	—	pCi/L	—	—	2336	UU070400GC4S01	UMTL

Appendix E

Screening Results

The following pages provide (1) acronyms and abbreviations and (2) analytical laboratory qualifier codes. The secondary data validation summary is provided in Appendix G.

Acronyms and Abbreviations

Code	Description
Field Prep Codes	
ASHED	Ashed
CRUSH	Crushed
F	Filtered
NA	Not Analyzed
SV	Sieved
UA	Unassigned
UF	Unfiltered
UNK	Unknown
Field QC Type Codes	
CO	Collocated
EQB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
FPR	Field Prepared Reagent
FPS	Field Prepared Spike
FR	Field Rinsate
FS	Field Split
FTB	Field Trip Blank
FTR	Field Triplicate
INB	Equipment blank taken during installation and not associated with a sampling event
ITB	Trip blank taken during installation and not associated with a sampling event
n/a	Not Applicable
PE	Performance Evaluation
PEB	Performance Evaluation Blank
PEK	Performance Evaluation Known
RES	Resample
SS	Special Sampling Event, Data Unique
UA	Unassigned
Suite Codes	
DIOX/FUR	Dioxins and Furans
DRO	Diesel Range Organics
GENINORG	General Inorganics
HERB	Herbicides

Acronyms and Abbreviations (continued)

Code	Description
HEXP	High Explosives
METALS	Metal
PEST/PCB	Pesticides and PCBs
RAD	Radionuclides
SVOA	Semivolatile Organics
VOA	Volatile Organics
Lab Sample Type Codes	
BLIND	Blind Quality Control
BS	Blank Spike
BSD	Blank Spike Duplicate
CS	Client Sample
DL	Dilution
DUP	Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LCST	Laboratory Control Sample Triplicate
MB	Method Blank
MBD	Method Blank Duplicate
MBT	Method Blank Triplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MSQD	Matrix Spike Quadruplicate
MSQT	Fifth Matrix Spike
MST	Matrix Spike Triplicate
QNT	Fifth Replicate
QUD	Quadruplicate
RE	Reanalysis
REDP	Reanalysis Duplicate
RETRP	Reanalysis Triplicate
RI	Reissue
RID	Reissue Duplicate
SXT	Sixth Replicate
TOTC	Calculated Total
TOTCD	Calculated Total for a Duplicate
TRP	Triplicate

Analytical Laboratory Qualifier Codes

Laboratory Qualifier Code	Laboratory Qualifier Description
*	(Inorganic)—Duplicate analysis (relative percent difference) not within control limits. (Organic)—Spike recovery (relative percent difference) is equal to or outside the control criteria used.
B	(Organic)—Analyte present in the blank and the sample. (Inorganic)—reported value was obtained from a reading that was less than the contract-required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
BJ	See B code and see J code.
BJP	(B) (Organic)—This analyte was detected in the associated laboratory method blank and the sample. (B) (Inorganic)—The result for this analyte was greater than the IDL but less than the CRDL. (J) (Organic/General Inorganics)—The result for this analyte was greater than the method detection limit (MDL) but less than the practical quantitation limit (PQL). (P) (Pesticides/PCBs)—The quantitative results for this analyte between the primary and secondary gas chromatography (GC) columns were greater than 25% difference. (P) (SW-846 U.S. Environmental Protection Agency (EPA) Method 8310, High Pressure Liquid Chromatography, HPLC results)—The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic)—This analyte was detected in the associated laboratory method blank and the sample. (B) (Inorganic)—The result for this analyte was greater than the IDL but less than the CRDL. (P) (Pesticides/PCBs)—The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310, High Pressure Liquid Chromatography, HPLC results)—The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic)—The result for this analyte should be regarded as not detected.
DJ	(D) (Organic)—The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL.
DNA	Did not analyze because equipment was broken.
E	EPA Flag—The result for this analyte exceeded the upper range of the instrument initial calibration curve.
EJ	(E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (inductively coupled plasma atomic emission spectroscopy [ICP-AES])—The result for this analyte in the serial dilution analysis was outside acceptance criteria.
EJN	(E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES)—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (graphite furnace atomic absorption [GFAA])—The result for this analyte failed one or more Control Laboratory Program (CLP) acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL. (N) (Organic)—The reported analyte is a tentatively identified compound (TIC). (N) (Inorganic)—The result for this analyte in the matrix spike sample was outside acceptance criteria.
EN	See E code and see N code.

Analytical Laboratory Qualifier Codes (continued)

Laboratory Qualifier Code	Laboratory Qualifier Description
EN*	(E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES)—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA)—The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic)—The reported analyte is a TIC. (N) (Inorganic)—The result for this analyte in the matrix spike sample was outside acceptance criteria. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded.
H*	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic)—The result for this analyte in the laboratory control sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL.
HJ*	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
INS	(d15N)—The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value cannot be given to a blank, since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: “nondetect” or detected, but below detection limit.
J	(Inorganic)—The associated numerical value is an estimated quantity. (Organic)—The associated numerical value is an estimated quantity.
J*	This code is no longer used.
JB	See J code and see B code
JN	(J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the Practical Quantitation Limit (PQL). (N) (Organic)—The reported analyte is a TIC.
JN*	(J) (Organic/Inorganic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL. (N) (Organic)—The reported analyte is a TIC.
JP	See J code and see P code.
N	(Organic)—Presumptive evidence of presence of material. (Inorganic)—Spiked sample recovery not within control limits.
N*	This code is no longer used.
P	This code is no longer used.
U	(Inorganic)—The material was analyzed for but was not detected above the level of the associated numeric value. The associated numerical value is either the sample quantitation limit or the sample detection limit.

Analytical Laboratory Qualifier Codes (continued)

Laboratory Qualifier Code	Laboratory Qualifier Description
U*	See U code and see * code.
UE	See U code and see E code.
UEN	(U) (Organic/Inorganic)—The result for this analyte was not detected at the specified reporting limit. (E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. Spiked sample recovery not within control limits.
UH	(U) (Organic/Inorganic)—The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded.
UH*	(U) (Organic/Inorganic)—The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Inorganic)—The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	This code is no longer used.
UN	EPA flag (Inorganic)—Compound was analyzed for but was not detected. Spiked sample recovery not within control limits.
UN*	EPA flag (Inorganic)—Compound was analyzed for but was not detected. Spiked sample recovery not within control limits. Duplicate analysis not within control limits.
X	The result for this analyte was not detected at the specified reporting limit (used for gas chromatography methods).

Table E-1
Groundwater Metals

Zone	Location	Date	Analyte	Field Prep Code	Result	Method Detection Limit	Unit	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	Analytical Method Code	EPA MCL	Ratio (Result/Screening Level)	NMWQCC GW STD	Ratio (Result/Screening Level)
Regional Spring	Spring 10	04/20/09	Mn	F	762	2	µg/L	GELC	—*	—	—	SW-846:6010B	—	—	200	3.81
Regional Spring	Spring 10	04/20/09	Pb	UF	9.82	0.5	µg/L	GELC	—	—	—	SW-846:6020	15	0.65	—	—

*— = None.

Table E-2
Groundwater Organics

Zone	Location	Date	Field QC Type Code	Field Prep Code	Analytical Suite Code	Analyte	Result	Method Detection Limit	Unit	Dilution Factor	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	Analytical Method Code	Lab Code	EPA Tap Screening Level (C)	Ratio (Result/Screening Level)	EPA Tap Screening Level (N)	Ratio (Result/Screening Level)	NMWQCC GW STD	Ratio (Result/Screening Level)
Regional Spring	Spring 4B	04/21/09	FTB	UF	VOA	Naphthalene	0.269	0.25	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	1.4	0.19	—*	—	30	0.01
Regional Spring	Spring 4B	04/21/09	—	UF	VOA	Butanone[2-]	1.73	1.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	7100	—	—	—

*— = None.

Table E-3
Groundwater Perchlorate

Zone	Location	Date	Field QC Type Code	Field Prep Code	Analytical Method Code	Symbol	Result	Method Detection Limit	Unit	Dilution Factor	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	Lab Code
Regional Spring	Sandia Spring	04/23/09	—*	F	SW-846:6850	—	0.442	0.05	µg/L	1	—	—	—	GELC
Regional Spring	Spring 4C	04/21/09	—	F	SW-846:6850	—	0.68	0.05	µg/L	1	—	—	—	GELC
Regional Spring	Spring 4AA	04/21/09	—	F	SW-846:6850	—	0.629	0.05	µg/L	1	—	—	—	GELC
Regional Spring	Spring 4A	04/21/09	—	F	SW-846:6850	—	0.623	0.05	µg/L	1	—	—	—	GELC
Regional Spring	Spring 10	04/20/09	PEB	UF	SW-846:6850	<	0.2	0.05	µg/L	1	U	U	U_LAB	GELC
Regional Spring	Spring 10	04/20/09	—	F	SW-846:6850	<	0.2	0.05	µg/L	1	U	U	U_LAB	GELC
Regional Spring	Spring 10	04/20/09	FB	UF	SW-846:6850	<	0.2	0.05	µg/L	1	U	U	U_LAB	GELC

*— = None.

Table E-4
Groundwater Tritium

Zone	Location	Date	Field Prep Code	Symbol	Result	Uncertainty	Minimum Detectable Activity	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Regional Spring	Sandia Spring	04/23/09	UF	<	0.13	0.29	0.28737	pCi/L	Generic:Low_Level_Tritium	UMTL	U	U	R5
Regional Spring	Spring 4C	04/21/09	UF	—*	8.08	0.29	0.28737	pCi/L	Generic:Low_Level_Tritium	UMTL	—	—	—
Regional Spring	Spring 4AA	04/21/09	UF	—	1.82	0.29	0.28737	pCi/L	Generic:Low_Level_Tritium	UMTL	—	—	—
Regional Spring	Spring 4A	04/21/09	UF	<	0.51	0.29	0.28737	pCi/L	Generic:Low_Level_Tritium	UMTL	—	U	R11

*— = None.

Appendix F

Investigation-Derived Waste Management

F-1.0 INTRODUCTION

This appendix describes the storage and disposal of investigation-derived waste (IDW) generated during this periodic groundwater monitoring event conducted in the White Rock Watershed under the Los Alamos National Laboratory (LANL or the Laboratory) Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) (LANL 2008, 101897). IDW is waste generated as a result of field-investigation activities and may include, but is not limited to, contact waste consisting of contaminated personal protective equipment (PPE), sampling supplies, plastic, and paper; and all other wastes potentially contacting contaminants. IDW generated during implementation of the IFGMP is managed to protect human health and the environment, comply with applicable regulatory requirements, and adhere to Laboratory waste minimization goals. The wastes are managed in accordance with the White Rock Watershed groundwater monitoring waste characterization strategy form (WCSF), submitted in the June 2007 periodic monitoring report (PMR) (LANL 2007, 097342). The WCSF provides information on IDW characterization, management, containerization, analytical methods and estimated waste volumes. The most recent version of the "Los Alamos National Laboratory Hazardous Waste Minimization Report" (LANL 2008, 104174) is being implemented during groundwater monitoring to minimize waste generation. The plan is updated annually as a requirement of Module VIII of the Laboratory's Hazardous Waste Facility Permit.

F-2.0 WASTE DETERMINATION

IDW characterization is completed through review of existing data and/or documentation and sampling of the media being investigated (i.e., groundwater). The groundwater analyses are augmented, as needed, by direct sampling of containerized waste to fulfill a treatment or disposal of facility's waste acceptance criteria (WAC). Under the 2008 IFGMP, the wastes from each sampling event were initially managed as hazardous wastes until the analytical data for that event were available. However, multiple analyses showed that the groundwater (and therefore the wastes) for a number of the sampling locations were not hazardous. The 2008 IFGMP recognized this and allowed the number of sampling events used to make Resource Conservation and Recovery Act (RCRA) waste determinations to be based on acceptable knowledge (AK) of groundwater conditions within a watershed in the area of a well. AK includes reviews of existing analytical data and may also include source term/process identification performed to identify whether listed hazardous waste may be present (i.e., due diligence reviews). If low levels of listed hazardous waste are identified, a "contained-in" determination may be submitted for approval to the New Mexico Environment Department (NMED).

F-3.0 WASTE MANAGEMENT

All IDW generated during this periodic monitoring event is being managed in accordance with applicable standard operating procedures (SOPs). These SOPs incorporate the requirements of all applicable U.S. Environmental Protection Agency (EPA) and NMED regulations, U.S. Department of Energy orders, and Laboratory procedures.

The SOP applicable to the characterization and management of IDW is:

- EP-ERSS-SOP-5022, Characterization and Management of Environmental Restoration (ER) Project Waste (http://www.lanl.gov/environment/all/qa/adep.shtml).

The IDW streams associated with groundwater monitoring are identified in Table F-3.0-1 and are briefly described below. Table F-3.0-1 summarizes the waste types, 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 detailed in this section and in Table F-3.0-1. The number of samples used to make the waste determination varies by sampling location, depending on the classifications described above in section F-2.0, Waste Determination. If the waste has not yet been land-applied, or shipped to the destination where it will be treated and/or disposed of, "Pending" appears in the "Disposition Status" column of Table F-3.0-1. Waste that has not yet been characterized is managed conservatively or based on previous analytical data. Existing waste disposal documentation (waste profile forms [WPFs], manifests, etc.) that are in use and have been submitted in a previous report (see bulleted list below) are not attached.

If a waste stream from a previous monitoring event was reported as pending land application or disposal and has since been land-applied or disposed of, the waste types, volumes, and characterization methods are updated in a table included in this appendix. However, no waste streams from previous monitoring events have been disposed of during this reporting period. If new disposal documents have been used since a previous reporting period, any new waste disposal documents are included in this appendix.

Contact waste: The contact waste stream consists of solid wastes generated during sampling that "contacted" potentially contaminated environmental media (i.e., groundwater) and cannot be decontaminated. It consists primarily of contaminated PPE (primarily gloves); disposable sampling supplies; and dry decontamination wastes, such as paper items. Contact waste is stored in containers (e.g., 55-gal. drums) at monitoring sites or at waste accumulation areas appropriate for the regulatory status of the waste. For transport U.S. Department of Transportation–approved containers are used, as appropriate. Characterization of this waste stream is performed through AK from analytical results for the environmental media that it came into contact with or through direct sampling of the containerized waste. The contact wastes are managed in accordance with their classification as nonhazardous/nonradioactive, hazardous, mixed, or radioactive waste, as follows:

- Contact waste that has been in contact with nonhazardous, nonradioactive groundwater is disposed of at a New Mexico solid waste landfill using WPF 39268, a copy of which was included in Appendix F of a previous PMR (LANL 2008, 103737).
- If the contact wastes are hazardous or mixed wastes, they are placed in registered hazardous waste accumulation areas that may be at the location of the wells or may be at other locations at the Laboratory. Unless a contained-in determination is granted by NMED or a due diligence investigation of the sources of the contamination determines the waste is not listed hazardous waste, the waste will be managed appropriately for its regulatory classification. If it is determined to be hazardous or mixed waste, it will be treated and/or disposed of at a permitted off-site treatment, storage, and disposal facility.
- If the contact wastes are nonhazardous but contain elevated radioactivity, the contact wastes may be designated as low-level radioactive waste and disposed of at Technical Area 54 (TA-54) Area G. Radioactive contact waste must be placed in registered radioactive staging or storage areas that may be at the location of the wells or may be at other locations at the Laboratory. If the Laboratory's Green Is Clean program verifies the contact waste is nonradioactive, it is disposed of at a New Mexico solid waste landfill.

F-4.0 REFERENCES

The following list includes all documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ER ID. This information is also included in text citations. ER IDs 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 master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau 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), June 2007. "Periodic Monitoring Report for White Rock Watershed, September 11–22, 2006," Los Alamos National Laboratory document LA-UR-07-3474, Los Alamos, New Mexico. (LANL 2007, 097342)

LANL (Los Alamos National Laboratory), May 2008. "2008 Interim Facility-Wide Groundwater Monitoring Plan," Los Alamos National Laboratory document LA-UR-08-3273, Los Alamos, New Mexico. (LANL 2008, 101897)

LANL (Los Alamos National Laboratory), September 2008. "Periodic Monitoring Report for White Rock Watershed, April 23–April 30, 2008," Los Alamos National Laboratory document LA-UR-08-5847, Los Alamos, New Mexico. (LANL 2008, 103737)

LANL (Los Alamos National Laboratory), November 2008. "Los Alamos National Laboratory Hazardous Waste Minimization Report," Los Alamos National Laboratory document LA-UR-08-7274, Los Alamos, New Mexico. (LANL 2008, 104174)

Table F-3.0-1
Summary of IDW Generation and Management

Waste Stream	Waste Type	Volume	Characterization Method	On-Site Management	Disposition Status
Contact Waste	Nonhazardous, Nonradioactive	0.05 yd^3 (10 gal.)	AK of waste materials	Originally managed conservatively and collected in containers, stored at satellite accumulation areas, or at less-than-90-day accumulation areas. These wastes have been determined to be nonhazardous based on date review or due diligence. The containers and accumulation areas have been downgraded to nonhazardous.	Disposed of at New Mexico solid waste landfill; WPF 39268*

*The existing WPF was submitted in Appendix F of the September 2008 PMR (LANL 2008, 103737).

Appendix G

Analytical Reports
(on CD included with this document)

CD Table of Contents

Request	Suite	Lab	Sample	Date	Location
09-1530	HEXP	STSL	CAWR-09-7948	4/20/2009	Spring 10
09-1530	HEXP	STSL	CAWR-09-7976	4/20/2009	Spring 10
09-1530	HEXP	STSL	CAWR-09-7977	4/20/2009	Spring 10
09-1531	GENINORG	GELC	CAWR-09-7947	4/20/2009	Spring 10
09-1531	GENINORG	GELC	CAWR-09-7948	4/20/2009	Spring 10
09-1531	GENINORG	GELC	CAWR-09-7976	4/20/2009	Spring 10
09-1531	GENINORG	GELC	CAWR-09-7977	4/20/2009	Spring 10
09-1531	HEXP	GELC	CAWR-09-7948	4/20/2009	Spring 10
09-1531	HEXP	GELC	CAWR-09-7976	4/20/2009	Spring 10
09-1531	HEXP	GELC	CAWR-09-7977	4/20/2009	Spring 10
09-1531	METALS	GELC	CAWR-09-7947	4/20/2009	Spring 10
09-1531	METALS	GELC	CAWR-09-7948	4/20/2009	Spring 10
09-1531	METALS	GELC	CAWR-09-7976	4/20/2009	Spring 10
09-1531	METALS	GELC	CAWR-09-7977	4/20/2009	Spring 10
09-1531	RAD	GELC	CAWR-09-7948	4/20/2009	Spring 10
09-1554	HEXP	STSL	CAWR-09-7940	4/21/2009	Spring 4C
09-1555	GENINORG	GELC	CAWR-09-7940	4/21/2009	Spring 4C
09-1555	HEXP	GELC	CAWR-09-7940	4/21/2009	Spring 4C
09-1555	SVOA	GELC	CAWR-09-7939	4/21/2009	Spring 4B
09-1555	SVOA	GELC	CAWR-09-7940	4/21/2009	Spring 4C
09-1555	VOA	GELC	CAWR-09-7938	4/21/2009	Spring 4B
09-1555	VOA	GELC	CAWR-09-7939	4/21/2009	Spring 4B
09-1555	VOA	GELC	CAWR-09-7940	4/21/2009	Spring 4C
09-1556	GENINORG	GELC	CAWR-09-7937	4/21/2009	Spring 4B
09-1556	GENINORG	GELC	CAWR-09-7939	4/21/2009	Spring 4B
09-1556	GENINORG	GELC	CAWR-09-7940	4/21/2009	Spring 4C
09-1556	GENINORG	GELC	CAWR-09-7942	4/21/2009	Spring 4C
09-1556	METALS	GELC	CAWR-09-7937	4/21/2009	Spring 4B
09-1556	METALS	GELC	CAWR-09-7939	4/21/2009	Spring 4B
09-1556	METALS	GELC	CAWR-09-7940	4/21/2009	Spring 4C
09-1556	METALS	GELC	CAWR-09-7942	4/21/2009	Spring 4C
09-1557	RAD	UMTL	CAWR-09-7940	4/21/2009	Spring 4C
09-1577	GENINORG	GELC	CAWR-09-7944	4/21/2009	Spring 4A
09-1577	GENINORG	GELC	CAWR-09-7946	4/21/2009	Spring 4AA
09-1577	HEXP	GELC	CAWR-09-7944	4/21/2009	Spring 4A
09-1577	HEXP	GELC	CAWR-09-7946	4/21/2009	Spring 4AA
09-1577	SVOA	GELC	CAWR-09-7934	4/21/2009	Spring 4
09-1577	SVOA	GELC	CAWR-09-7979	4/21/2009	Spring 4
09-1577	VOA	GELC	CAWR-09-7934	4/21/2009	Spring 4

Request	Suite	Lab	Sample	Date	Location
09-1577	VOA	GELC	CAWR-09-7935	4/21/2009	Spring 4
09-1577	VOA	GELC	CAWR-09-7941	4/21/2009	Spring 4C
09-1577	VOA	GELC	CAWR-09-7979	4/21/2009	Spring 4
09-1578	HEXP	STSL	CAWR-09-7944	4/21/2009	Spring 4A
09-1578	HEXP	STSL	CAWR-09-7946	4/21/2009	Spring 4AA
09-1579	GENINORG	GELC	CAWR-09-7934	4/21/2009	Spring 4
09-1579	GENINORG	GELC	CAWR-09-7936	4/21/2009	Spring 4
09-1579	GENINORG	GELC	CAWR-09-7943	4/21/2009	Spring 4A
09-1579	GENINORG	GELC	CAWR-09-7944	4/21/2009	Spring 4A
09-1579	GENINORG	GELC	CAWR-09-7945	4/21/2009	Spring 4AA
09-1579	GENINORG	GELC	CAWR-09-7946	4/21/2009	Spring 4AA
09-1579	GENINORG	GELC	CAWR-09-7978	4/21/2009	Spring 4
09-1579	GENINORG	GELC	CAWR-09-7979	4/21/2009	Spring 4
09-1579	METALS	GELC	CAWR-09-7934	4/21/2009	Spring 4
09-1579	METALS	GELC	CAWR-09-7936	4/21/2009	Spring 4
09-1579	METALS	GELC	CAWR-09-7943	4/21/2009	Spring 4A
09-1579	METALS	GELC	CAWR-09-7945	4/21/2009	Spring 4AA
09-1579	METALS	GELC	CAWR-09-7978	4/21/2009	Spring 4
09-1579	METALS	GELC	CAWR-09-7979	4/21/2009	Spring 4
09-1580	RAD	UMTL	CAWR-09-7944	4/21/2009	Spring 4A
09-1580	RAD	UMTL	CAWR-09-7946	4/21/2009	Spring 4AA
09-1598	GENINORG	GELC	CAWR-09-7931	4/23/2009	Sandia Spring
09-1598	GENINORG	GELC	CAWR-09-7932	4/23/2009	Sandia Spring
09-1598	HEXP	GELC	CAWR-09-7931	4/23/2009	Sandia Spring
09-1598	METALS	GELC	CAWR-09-7931	4/23/2009	Sandia Spring
09-1598	METALS	GELC	CAWR-09-7932	4/23/2009	Sandia Spring
09-1598	PEST/PCB	GELC	CAWR-09-7931	4/23/2009	Sandia Spring
09-1598	SVOA	GELC	CAWR-09-7931	4/23/2009	Sandia Spring
09-1598	VOA	GELC	CAWR-09-7931	4/23/2009	Sandia Spring
09-1598	VOA	GELC	CAWR-09-7933	4/23/2009	Sandia Spring
09-1599	HEXP	STSL	CAWR-09-7931	4/23/2009	Sandia Spring
09-1646	RAD	UMTL	CAWR-09-7931	4/23/2009	Sandia Spring

GENINORG = General inorganics.
HEXP = High explosives.
PEST/PCB = Pesticides/polychlorinated biphenyls.
RAD = Radionuclides.
SVOA = Semivolatile organic analysis.
VOA = Volatile organic analysis.