

Evaluation of the Groundwater Monitoring Program at the Grand Junction, Colorado, Site

June 2011



U.S. DEPARTMENT OF
ENERGY

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Contents

Abbreviations	ii
1.0 Introduction	1
2.0 General Considerations	1
3.0 Groundwater	1
3.1 Groundwater Monitoring Network	1
3.2 Groundwater Analytes	4
4.0 Surface Water	8
4.1 Surface Water Monitoring Network	8
4.2 Surface Water Analytes	9
5.0 Sampling Frequency	13
6.0 Natural Flushing Assessment	14
7.0 Summary of Recommendations	15
8.0 References	16

Figures

Figure 1. Proposed Monitoring Network at the Grand Junction, Colorado, Site.....	3
Figure 2. Manganese Concentrations in Groundwater	5
Figure 3. Molybdenum Concentrations in Groundwater	6
Figure 4. Selenium Concentrations in Groundwater.....	6
Figure 5. Sulfate Concentrations in Groundwater	7
Figure 6. Uranium Concentrations in Groundwater	8
Figure 7. Molybdenum Concentrations in Ponds and Wetland Area	10
Figure 8. Selenium Concentrations in Ponds and Wetland Area.....	11
Figure 9. Sulfate Concentrations in Ponds and Wetland Area.....	12
Figure 10. Uranium Concentrations in Ponds and Wetland Area.....	12
Figure 11. Water Levels in Well 8-4S	13
Figure 12. Mean Uranium Concentrations in the Alluvial Aquifer	15

Tables

Table 1. Summary of Analyte Concentrations in the Alluvial Aquifer from 2006 to 2010.....	4
Table 2. Summary of Analyte Concentrations in On-Site Surface Water from 2006 to 2010.....	9
Table 3. Summary of Analyte Concentrations in the Gunnison River from 2006 to 2010.....	9
Table 4. Trend Analysis of Uranium Concentrations in Wells at the Grand Junction Site	14

Appendixes

Appendix A	Groundwater Data
Appendix B	Surface Water Data

Abbreviations

DOE	U.S. Department of Energy
LM	Office of Legacy Management
LTS&MP	Long Term Surveillance and Maintenance Plan
mg/L	milligrams per liter
TDS	total dissolved solids

1.0 Introduction

The *Long Term Surveillance and Maintenance Plan for the Grand Junction, Colorado, Site* (LTS&MP) (DOE 2006) requires a review of the groundwater monitoring program at the end of a 5-year monitoring period. The current monitoring period ended in 2010. As stated in the LTS&MP, “DOE will evaluate monitoring results in consultation with the State of Colorado to determine the requirements for future monitoring at the site,” and the evaluation “will include a statistical evaluation of contaminant concentration trends.” The purpose of this report is to present an evaluation of monitoring results, propose a revised monitoring program based on the evaluation, and present the results of a statistical evaluation of the progress of natural flushing in the alluvial aquifer. With Colorado Department of Public Health and Environment (CDPHE) concurrence, the LTS&MP will be updated to reflect the revised monitoring program.

2.0 General Considerations

The U.S. Department of Energy (DOE) has been analyzing groundwater and surface water samples for the same constituents during the 5-year monitoring period. The analyte list was initially based on a consideration of water quality standards (groundwater and surface water), potential human health and ecological risks, general water quality indicators, and historical site monitoring results. Based on the 2006 monitoring program evaluation (DOE 2006), analyses for arsenic, chloride, chromium, gross alpha, nitrate, and total dissolved solids (TDS) were discontinued. The analyte list in the LTS&MP was reduced to manganese (groundwater only), molybdenum, selenium, sulfate, and uranium. These analytes are reevaluated here for both groundwater and surface water based on the more recent sampling results.

According to the compliance action plan for the site (DOE 2001b), “criteria for modifying or terminating groundwater and surface water monitoring will be (1) continued decrease in concentrations of COCs [constituents of concern] as predicted and observed, (2) compliance with regulatory limits, and (3) no unacceptable risks to human health and the environment resulting from site-related contamination.” Modification may include changing or adding additional sample locations or changing the suite of analytes.

CDPHE also provides criteria for arriving at a “no further action” decision in its guidance (CDPHE 2002) on the corrective action process in general. The corrective action guidance indicates that adequate remediation can be obtained if institutional controls are in place to ensure current and future protection of human health and the environment from groundwater contamination. This guidance was considered in the evaluation of the monitoring program.

3.0 Groundwater

3.1 Groundwater Monitoring Network

The groundwater monitoring network specified in the LTS&MP consists of seven monitoring wells (8-4S, 11-1S, GJ01-01, 6-2N, 14-13NA, GJ84-04, and 10-19N) completed in the alluvial aquifer. These wells are distributed throughout the site (see Figure 1), and most have an

extensive monitoring history; therefore, it is proposed that these wells be retained in the long-term groundwater monitoring network to verify aquifer restoration.

This current network of monitoring wells was intended to provide adequate information to monitor the progress of natural flushing (DOE 2001b). However, it does not meet this purpose since it is not extensive enough to verify aquifer restoration on a sitewide basis. Monitoring wells are missing from key areas of the aquifer, and areal monitoring well coverage is inadequate with large areas of the aquifer unmonitored. In addition, there is no established protocol for determining when natural flushing is complete. Therefore, the recommendations below are intended to establish a long-term monitoring network and a strategy for determining when natural flushing is complete based on data from the proposed monitoring well network.

Recommendation: Install five additional monitoring wells to finalize the long-term monitoring network as shown in Figure 1.

Rationale for selection of new well locations will be to provide a biased and conservative estimate of groundwater contaminants by using the following criteria:

- Install monitoring wells in former source areas where groundwater contamination was initially the highest and where the potential for residual source material is the highest.
- Install monitoring wells in the portion of the alluvial aquifer that will be the last area to naturally flush based on groundwater modeling results.
- Concentrate monitoring wells in the downgradient portion of the alluvial aquifer where contaminant plumes will terminate.

Following is an explanation of the criteria used for each proposed well.

Proposed well GJ12-01. Southwest dike area—a major former source area with contamination up to 10 feet deep prior to remediation (DOE 1989a).

Proposed well GJ12-02. Former tailings area—the major former source area on site where the tailings pile was located.

Proposed well GJ12-03. Northwest dike area—former major source area with contamination up to 4 feet deep prior to remediation and located in the downgradient portion of the alluvial aquifer.

Proposed well GJ12-04. North Pond area—former major source area with contamination up to 4 feet deep prior to remediation and in the downgradient portion of the alluvial aquifer.

Proposed well GJ12-05. Northeast area—located in the portion of the alluvial aquifer that will be the last area to naturally flush based on groundwater modeling results.



Figure 1. Proposed Monitoring Network at the Grand Junction, Colorado, Site

Recommendation: Establish a strategy for determining when natural flushing is complete.

Because the proposed long-term monitoring network will provide a conservative estimate of groundwater contamination, natural flushing will be considered complete when the arithmetic mean concentration in groundwater from the monitoring network (the existing seven wells and the proposed additional five wells) in each of two consecutive sampling events is below the respective standard for molybdenum, selenium, and uranium.

3.2 Groundwater Analytes

Groundwater monitoring results were evaluated against regulatory standards (molybdenum, selenium, and uranium) and background concentrations (manganese and sulfate) to determine if continued monitoring for an individual analyte is warranted. Table 1 presents a summary of analyte concentrations in the alluvial aquifer over the past 5 years, and Appendix A presents analytical results. Figures 2 through 6 present time-concentration graphs for each analyte. A discussion of each analyte, along with a recommendation for continued monitoring, is presented below.

Table 1. Summary of Analyte Concentrations in the Alluvial Aquifer from 2006 to 2010

Analyte	Standard ^{a,b} or Background ^c	Range	Mean	D ^d /N ^e	N Exceeding Standard or Background
Manganese	0.37 ^c	0.31–5	2.07	35/35	29
Molybdenum	0.035 ^b	0.014–0.19	0.083	35/35	13
Selenium	0.05 ^b	0.000097–0.068	0.014	29/35	14
Sulfate	1,009 ^c	280–4,100	1,290	35/35	17
Uranium	0.03 ^b	0.034–0.62	0.295	35/35	33

^a Units are in milligrams per liter (mg/L).

^b Standards for molybdenum, selenium, and uranium are from Regulation 41, *Basic Standards for Ground Water* (CDPHE 2009).

^c Background values are derived by calculating the mean concentration from upgradient wells GJ84-09 and GJ84-10.

^d Number of observations above the detection limit (excludes field duplicates).

^e Number of observations (excludes field duplicates).

Manganese: Mean background concentrations of manganese in the alluvial aquifer (0.37 mg/L) exceed State of Colorado (CDPHE 2009) groundwater standards for drinking water (0.05 mg/L) and agricultural use (0.2 mg/L). In addition, manganese concentrations measured in all wells in the monitoring network in 2010 were below the benchmark for plant toxicity (4.00 mg/L) used in the ecological risk assessment (DOE 2001a). Manganese concentrations in groundwater are displayed in Figure 2.

Recommendation: Because background concentrations exceed state standards, and institutional controls are in place to prevent use of groundwater for drinking water, thereby eliminating the pathway to human health risk, discontinue monitoring for manganese.

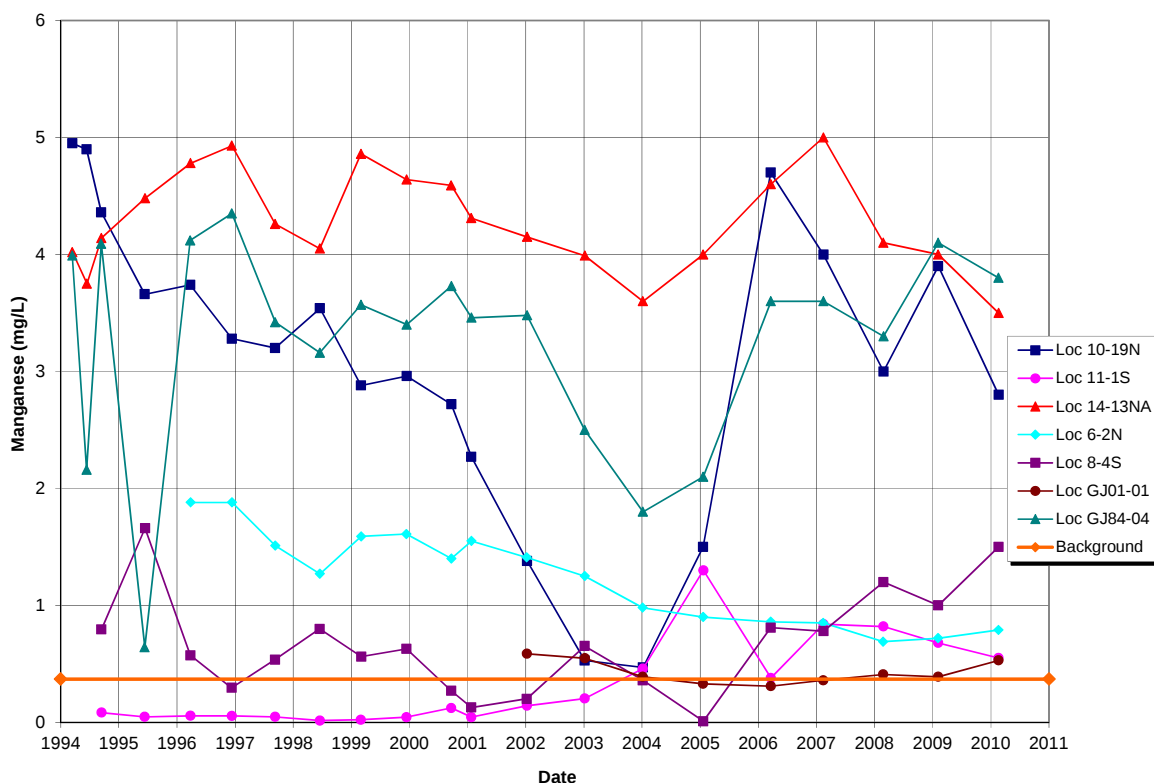


Figure 2. Manganese Concentrations in Groundwater

Molybdenum: Concentrations of molybdenum have been generally decreasing over time; however, molybdenum concentrations exceeded the State of Colorado groundwater standard of 0.035 mg/L in four wells in 2010 (Figure 3).

Recommendation: Because the state standard is still exceeded, continue monitoring for molybdenum.

Selenium: Concentrations of selenium generally have been decreasing over time, and selenium concentrations were below the State of Colorado groundwater standard of 0.05 mg/L in all wells in 2010 (Figure 4).

Recommendation: If the proposed strategy for determining the completion of natural flushing is adopted, continue monitoring for selenium until the proposed criteria are met for the expanded monitoring network.

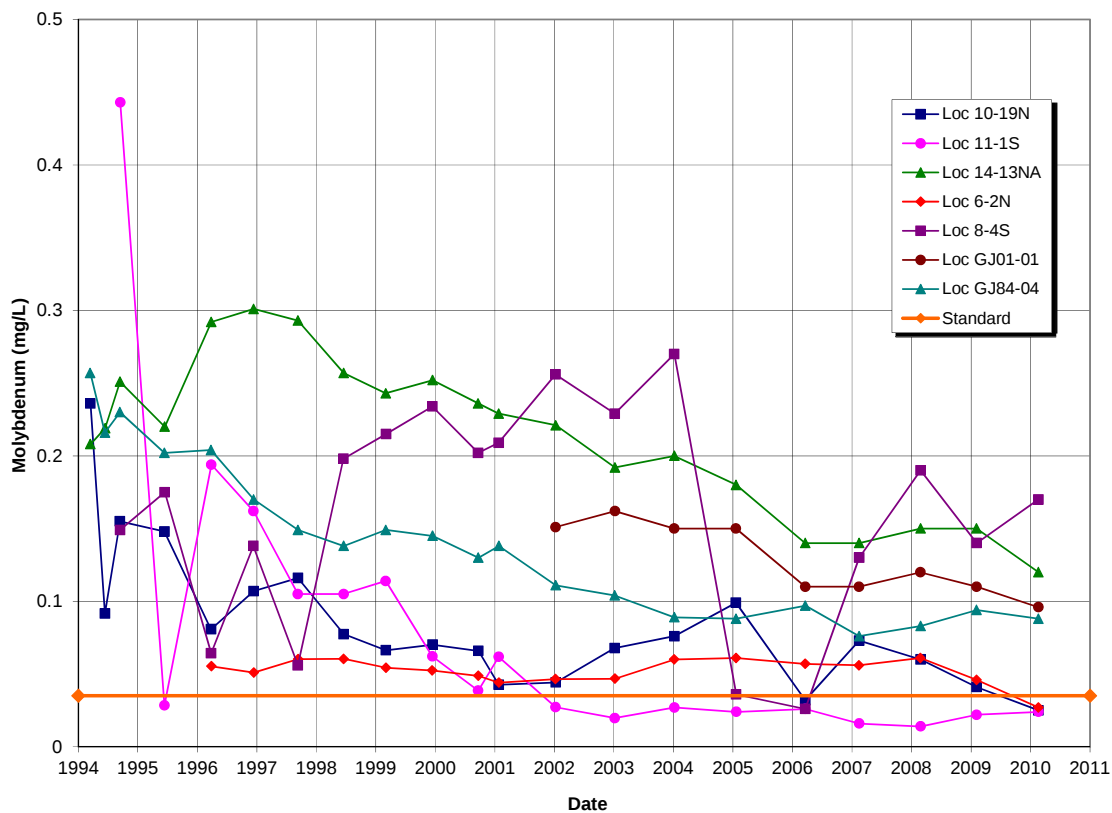
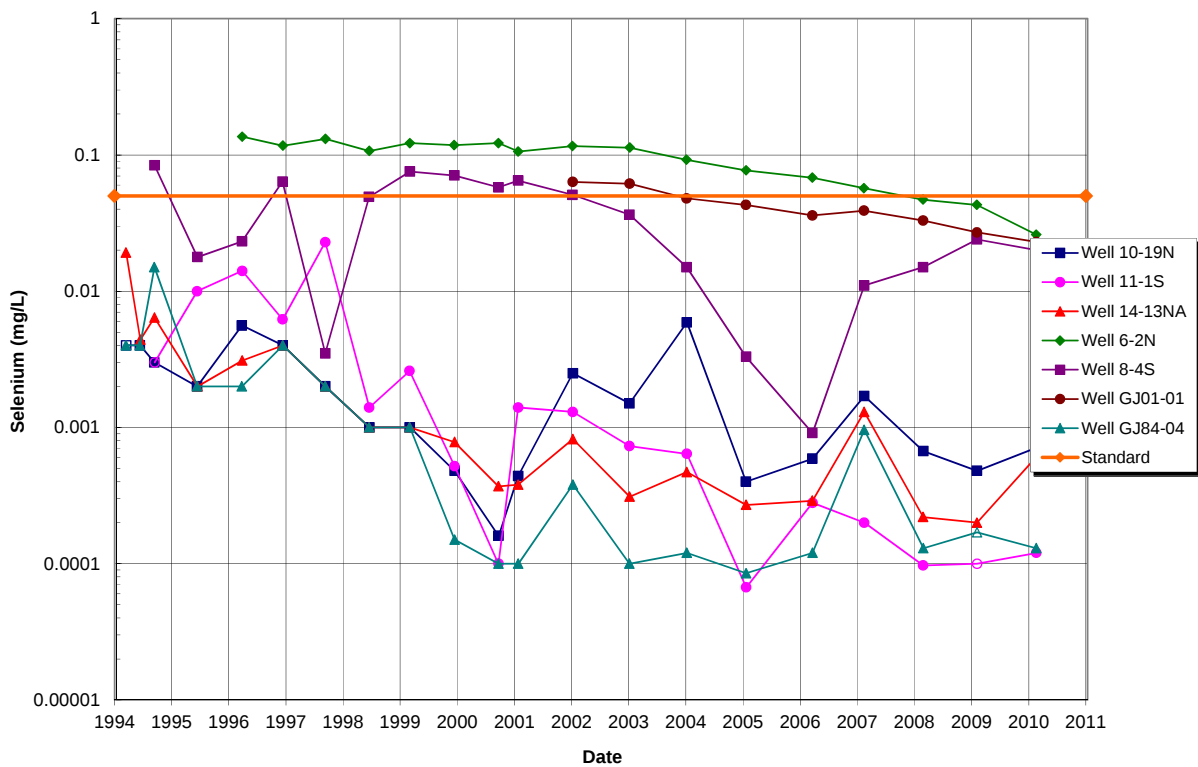


Figure 3. Molybdenum Concentrations in Groundwater



Note: A hollow symbol denotes an analytical result below the detection limit.

Figure 4. Selenium Concentrations in Groundwater

Sulfate: Mean background sulfate concentrations (1,009 mg/L) exceeded federal and state secondary drinking water standards for sulfate (250 mg/L). The background benchmark was exceeded in three wells in the monitoring network during 2010 (Figure 5).

Recommendation: Background sulfate concentrations exceed state and federal secondary drinking water standards. Institutional controls are in place to prevent use of groundwater as drinking water, thereby eliminating the pathway to human health risk; therefore, discontinue monitoring for sulfate.

Uranium: The State of Colorado groundwater standard was exceeded at all wells in the monitoring network in 2010 (Figure 6). Uranium is the most widespread contaminant throughout the aquifer and is the most elevated relative to the groundwater standard, with concentrations up to 14 times the standard measured during the monitoring period.

Recommendation: Because uranium is the most elevated relative to the standard, extensive, and mobile contaminant in the alluvial aquifer, it is expected to be the last contaminant to be naturally flushed (DOE 1989a). Continue monitoring for uranium as the main indicator of the progress and completion of natural flushing.

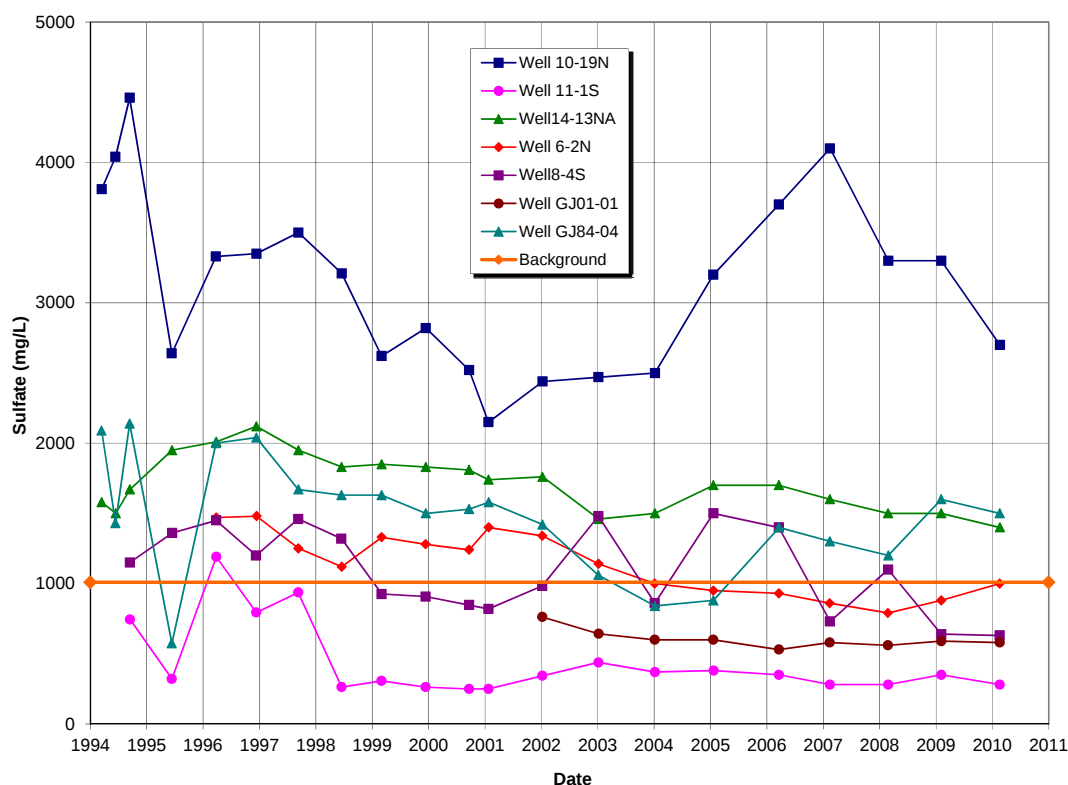


Figure 5. Sulfate Concentrations in Groundwater

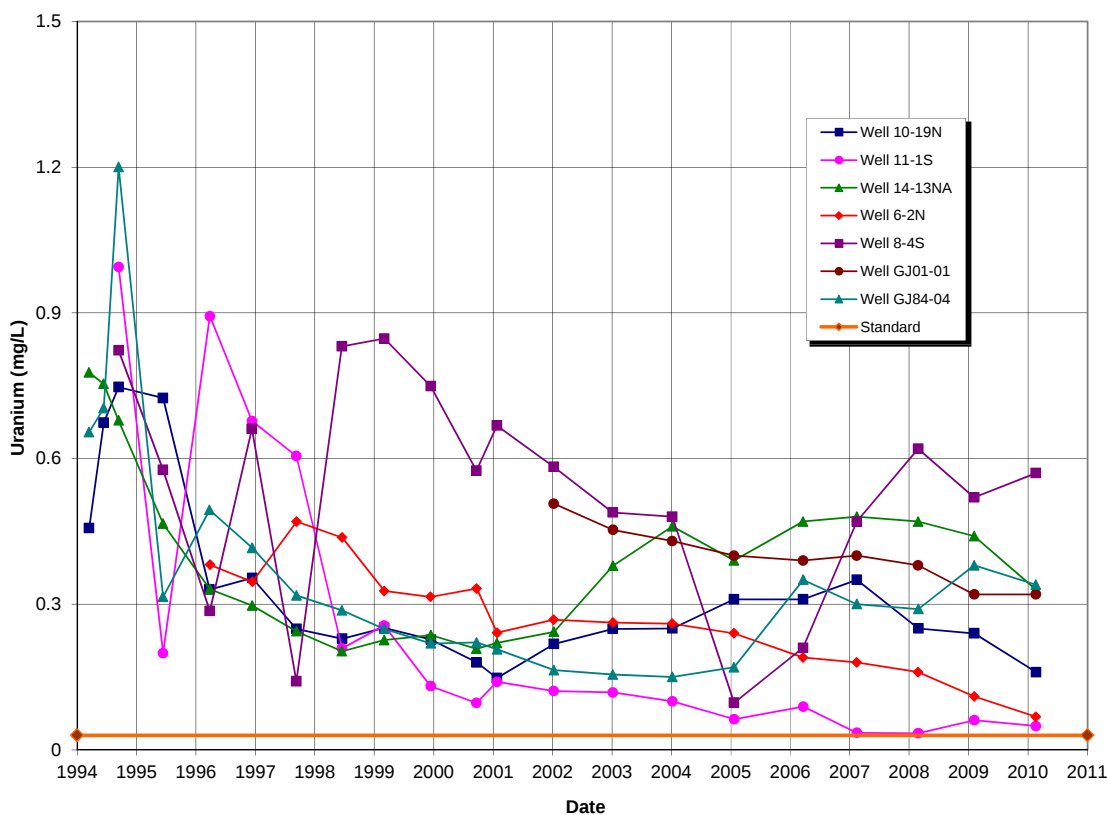


Figure 6. Uranium Concentrations in Groundwater

4.0 Surface Water

4.1 Surface Water Monitoring Network

The surface-water monitoring network specified in the LTS&MP consists of six locations, including three Gunnison River locations, one wetland location, the North Pond, and the South Pond. Monitoring at the Upper Gunnison location provides background river water quality in order to better assess concentrations of constituents of concern in samples collected adjacent to and downstream of the site. Monitoring of the Upper-Mid and Lower Gunnison locations provides an assessment of impacts to the Gunnison River from groundwater discharge adjacent to and downstream of the site, respectively. The North Pond, South Pond, and Wetland Area represent all surface water features at the site and are established monitoring locations with extensive historical data. Although water levels in the wetlands at the north end of the site can be elevated during the spring runoff, it is dry most of the year. Because the Wetland Area sampling location contains water throughout the year (it was excavated below the average low groundwater elevation and is the only wetlands area that typically has water in the late winter when sampling is scheduled), it is used as a surrogate for the wetlands in the north end of the site. The current surface water monitoring network is shown on Figure 1.

Recommendation: Continue monitoring the current surface water network.

4.2 Surface Water Analytes

Any site-related contamination present in surface water is the result of groundwater discharge to the surface water body; therefore, monitoring of surface water should mirror the groundwater monitoring program. Summaries of analyte concentrations in on-site ponds and the Gunnison River are shown in Table 2 and Table 3, respectively. Appendix B presents surface water data from 2006 to 2010.

Table 2. Summary of Analyte Concentrations in On-Site Surface Water from 2006 to 2010

Analyte	Benchmark ^{a,b}	North Pond		South Pond		Wetland Area	
		Range ^c	Mean ^c	Range ^c	Mean ^c	Range ^c	Mean ^c
Molybdenum	0.035	0.0017–0.0083	0.0052	0.014–0.088	0.049	0.0038–0.37	0.119
Selenium	0.05	0.00035–0.0029	0.001	0.00014–0.00059	0.00036	0.00021–0.0063	0.0019
Sulfate	1,009	260–2,800	1,432	650–1,300	1,050	2,000–17,000	9,200
Uranium	0.03	0.027–0.23	0.118	0.018–0.37	0.220	0.46–2.9	1.22

^a Units are in mg/L.

^b Groundwater standards from Regulation 41, “The Basic Standards for Ground Water” (CDPHE 2009) (molybdenum, selenium, and uranium) or background (mean sulfate concentration from background wells GJ84-09 and GJ84-10).

^c Based on five observations from 2006 to 2010.

Table 3. Summary of Analyte Concentrations in the Gunnison River from 2006 to 2010

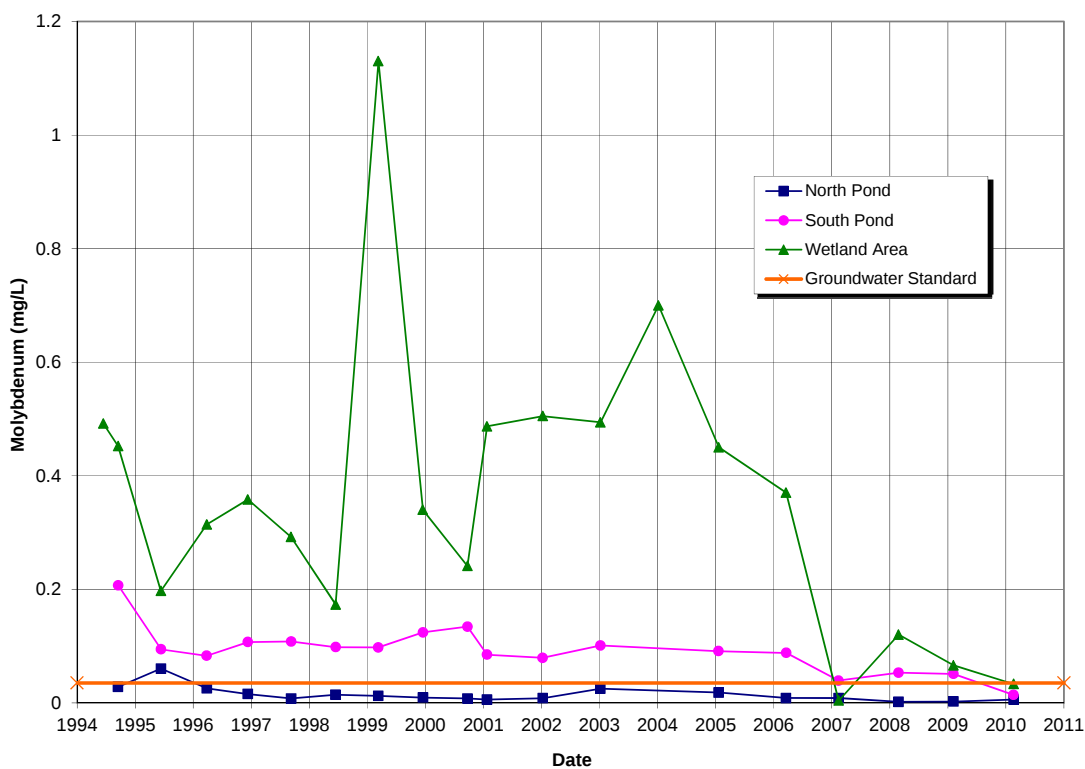
Analyte	Standard ^{a,b}	Upper Gunnison		Upper Mid Gunnison		Lower Gunnison	
		Range	Mean	Range	Mean	Range	Mean
Molybdenum	NA	0.0019–0.0026	0.0023	0.0019–0.0026	0.0023	0.002–0.0034	0.0026
Selenium	0.046	0.0028–0.0063	0.0040	0.0029–0.0068	0.0040	0.0019–0.0069	0.0041
Sulfate	250	210–300	256	210–320	256	220–330	268
Uranium	0.03	0.0046–0.0062	0.0057	0.0044–0.0062	0.0056	0.0047–0.0086	0.0066

^a Units are in mg/L.

^b Standards from Regulation 35, “Classifications and Numeric Standards for Gunnison and Lower Dolores River Basin” (CDPHE 2010).

Molybdenum: Concentrations of molybdenum have been elevated in the past in on-site ponds but in 2010 were below the State of Colorado groundwater standard (Figure 7). Molybdenum concentrations are essentially the same between upstream and downstream Gunnison River locations, although a slight increase in molybdenum concentrations between Upper Gunnison and Lower Gunnison sampling locations may indicate groundwater discharge to the river (Table 3).

Recommendation: Continue monitoring surface water for molybdenum until natural flushing of the alluvial aquifer is considered complete for molybdenum.

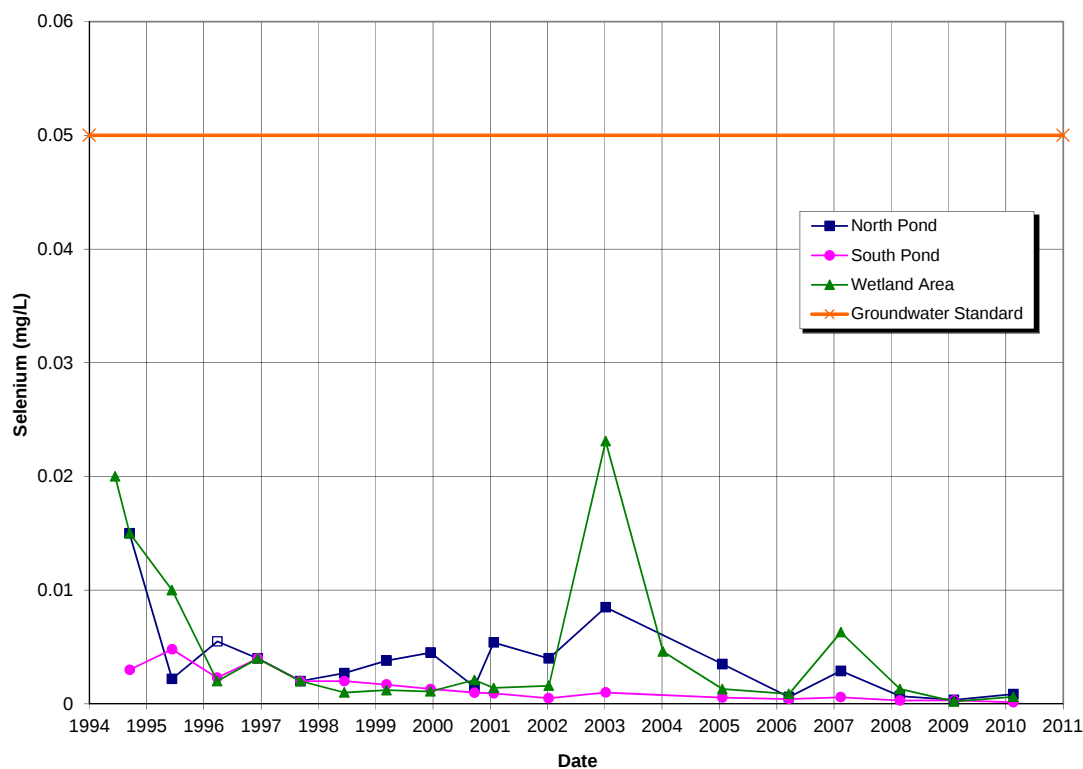


Note: A hollow symbol denotes an analytical result below the detection limit.

Figure 7. Molybdenum Concentrations in Ponds and Wetland Area

Selenium: Concentrations of selenium have been elevated in the past in on-site ponds but were two orders of magnitude below the groundwater standard in 2010 (Figure 8). Selenium concentrations are essentially the same between upstream and downstream Gunnison River locations and an order of magnitude below the state surface water standard (Table 3).

Recommendation: Continue to monitor surface water for selenium until natural flushing of the alluvial aquifer is considered complete for selenium.



Note: A hollow symbol denotes an analytical result below the detection limit.

Figure 8. Selenium Concentrations in Ponds and Wetland Area

Sulfate: Based on the previously completed risk assessments (DOE 2001a), risks associated with current and potential uses of on-site surface water were determined to be minimal. Sulfate concentrations are essentially the same between upstream and downstream Gunnison River locations, although a slight increase in sulfate concentrations between Upper Gunnison and Lower Gunnison sampling locations may indicate groundwater discharge to the river (Table 3). Sulfate concentrations exceeded the state surface water standard at upstream and downstream locations during the monitoring period. Sulfate concentrations are shown in Figure 9.

Recommendation: Sulfate is the only constituent monitored in surface water that is recommended to be discontinued from the groundwater monitoring program; therefore, it is also recommended that sulfate analyses be discontinued in surface water.

Uranium: Concentrations of uranium continue to be elevated in on-site ponds and were above the State of Colorado groundwater standard at two pond locations in 2010 (Figure 10). Uranium concentrations are essentially the same between upstream and downstream Gunnison River locations, although a slight increase in uranium concentrations between Upper Gunnison and Lower Gunnison sampling locations may indicate groundwater discharge to the river. However, uranium concentrations were an order of magnitude below the state surface water standard (Table 3).

Recommendation: Continue monitoring surface water for uranium until natural flushing of the alluvial aquifer is considered complete for uranium.

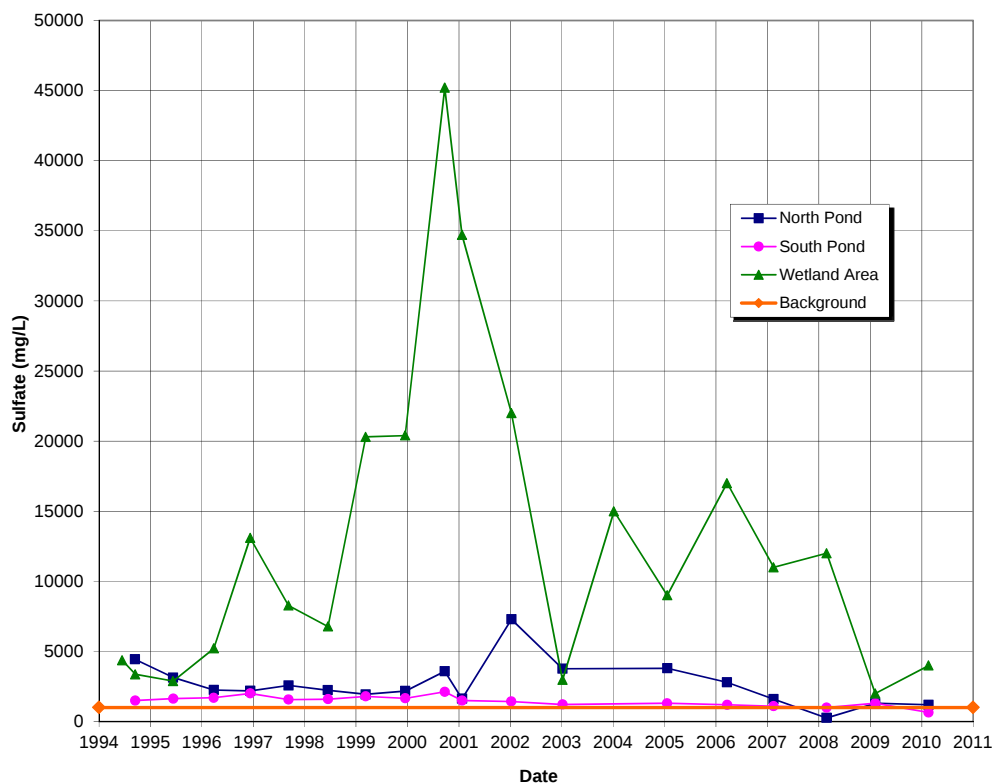


Figure 9. Sulfate Concentrations in Ponds and Wetland Area

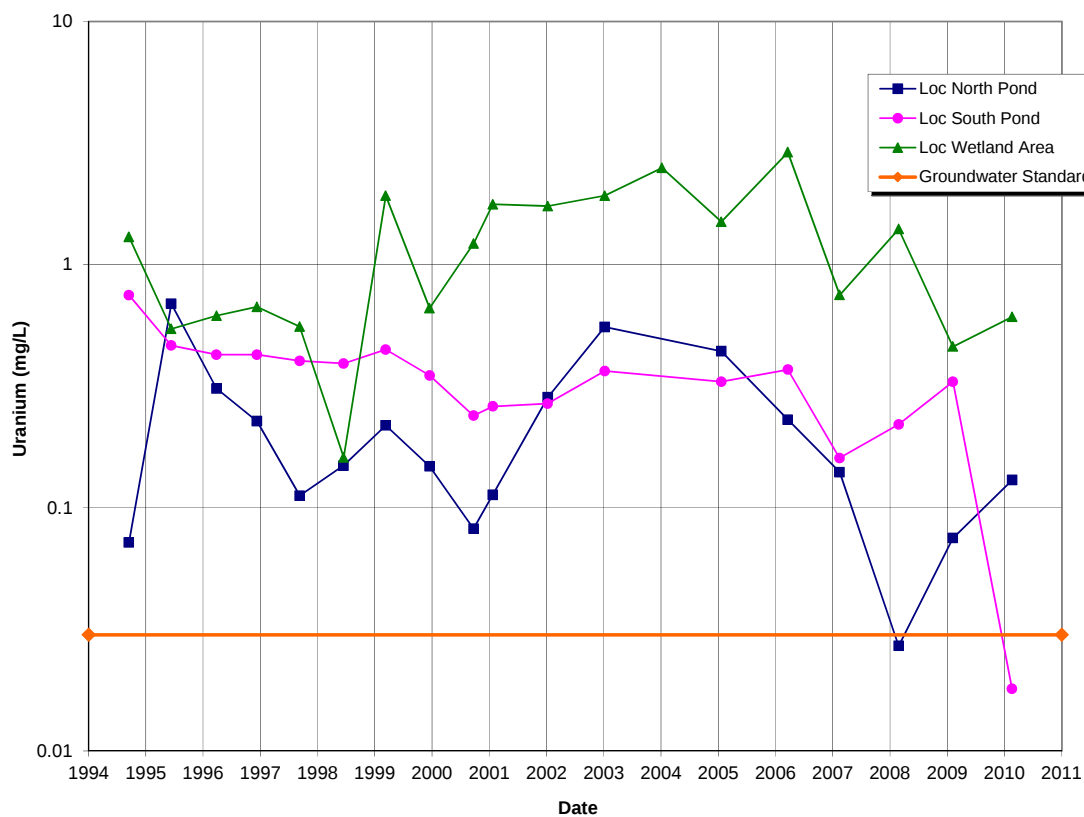


Figure 10. Uranium Concentrations in Ponds and Wetland Area

5.0 Sampling Frequency

The LTS&MP specifies conducting annual groundwater and surface water sampling in late winter. Sampling has been conducted annually during the winter quarter since 2001. During the winter months, groundwater levels are typically low, on-site pond levels are low, Gunnison River flows are low, and contaminant concentrations tend to be elevated (DOE 2001b). An example of seasonal fluctuation of groundwater levels in the alluvial aquifer is shown in Figure 11. Although historical data presented in this graph are dated, the data provide the most complete record of water levels collected during the remedial investigation period when intensive data collection activities occurred. Current water level fluctuations in the alluvial aquifer are likely to follow the same pattern, as they are closely tied to discharge in the Gunnison River (DOE 1989a).

Recommendation: DOE proposes to continue sampling during winter quarter to be consistent with the current practice, which will enhance comparability of data by minimizing the effects of seasonal variation. However, if the proposed strategy for long-term monitoring (monitoring well network and completion strategy) is adopted, then sampling frequency can be reduced to biennial because assessment of compliance will be made on an aquifer-wide basis, and trending in individual wells requiring annual sampling is not as critical.

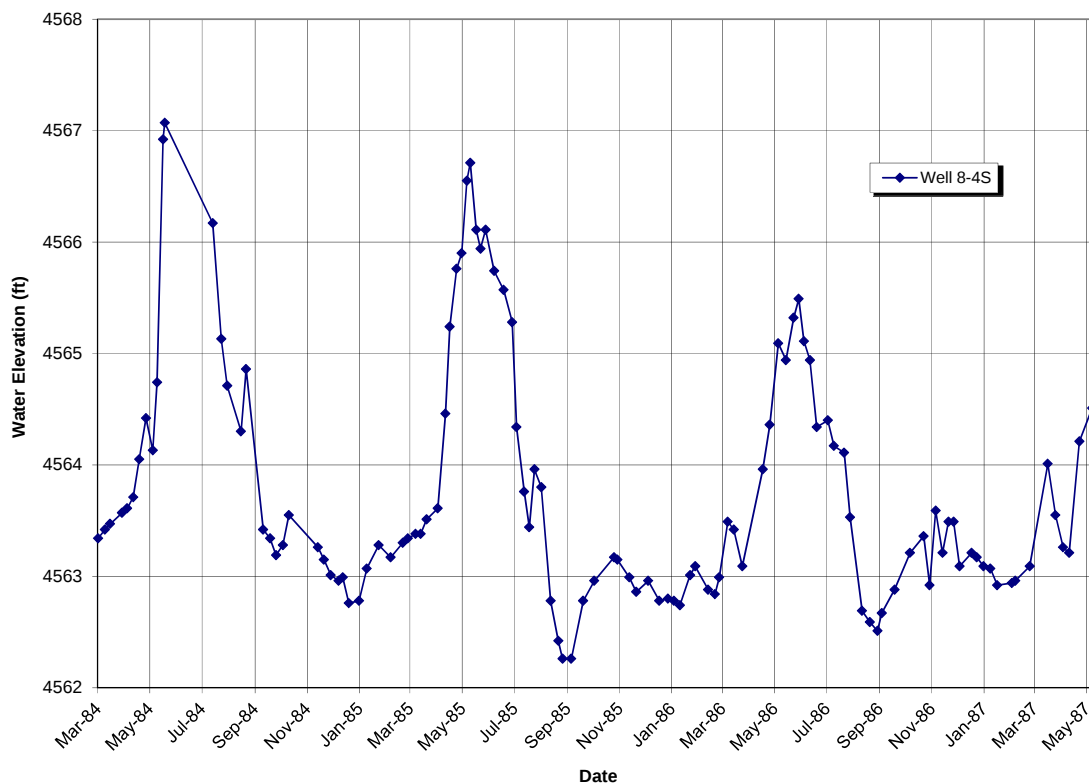


Figure 11. Water Levels in Well 8-4S

6.0 Natural Flushing Assessment

Groundwater modeling has predicted that constituents of concern in the alluvial aquifer will naturally flush to levels below applicable standards in 50 to 80 years after removal of soil contamination (DOE 1989b). Soil remediation commenced in 1989 with the signing of the Record of Decision. The majority of soil remediation was completed (except for small deferred areas remaining [DOE 2001a]) in 1994 and signaled the beginning of the natural flushing period; therefore, 17 years have elapsed in the 50 to 80 year time frame predicted by the model. As stated in the LTS&MP, a statistical evaluation of contaminant concentrations is required to assess the progress of natural flushing.

To meet this objective, trend analyses using the Mann-Kendall test (Gilbert 1987) were performed to assess contaminant concentrations. Uranium was selected as the indicator parameter because (1) it is widespread throughout the aquifer, (2) it exceeded the standard at all wells in the monitoring network in 2010, (3) concentrations are up to two orders of magnitude above the standard, and (4) uranium was the constituent that was modeled. Only data collected during the winter months (if available) were used in the statistical analysis to avoid seasonal variation. The Mann-Kendall test determines if an upward trend, downward trend, or no trend exists. As shown in Table 4, based on this test, four of the seven wells in the current monitoring network have a downward trend. The three wells that show no statistical trend are located in the farthest downgradient portion of the alluvial aquifer where uranium concentrations remain stable as the plume migrates downgradient.

Table 4. Trend Analysis of Uranium Concentrations in Wells at the Grand Junction Site

Well ID	Mann-Kendall Trend ^a	N ^b
10-19N	No Trend	17
11-1S	Downward	17
14-13NA	No Trend	17
6-2N	Downward	15
8-4S	Downward	17
GJ84-04	No Trend	17
GJ01-01	Downward	9

^a Data collected from 1994 to 2010.

^b N=number of observations.

To provide an overview of the natural flushing progress, the annual mean concentration of uranium from current wells in the monitoring network since 1994 was calculated and graphed in Figure 12. As shown in the figure, uranium concentrations have generally declined over time, indicating that natural flushing processes in the alluvial aquifer have been effective.

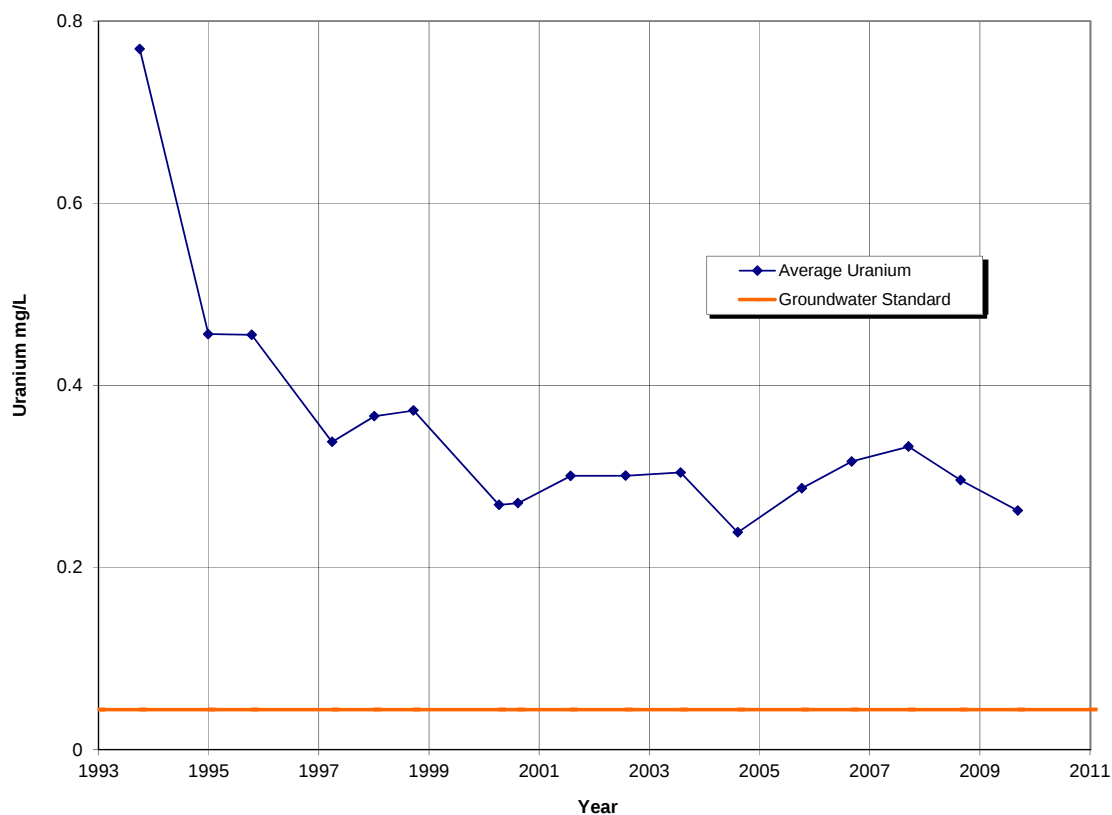


Figure 12. Mean Uranium Concentrations in the Alluvial Aquifer

7.0 Summary of Recommendations

Recommendations from this evaluation of the groundwater monitoring program at the Grand Junction site through 2010 are summarized below.

- Discontinue monitoring for sulfate in surface water and groundwater and manganese in groundwater because of elevated background concentrations and because there is no risk to human health (on-site institutional controls have eliminated the drinking water pathway).
- Develop a long-term monitoring strategy that includes the following:
 - A biased long-term groundwater network that places wells strategically in former source areas, in areas predicted to be the last to naturally flush, and in areas concentrated in the downgradient portion of the aquifer.
 - An assessment to determine when natural flushing is complete, which is when the arithmetic mean concentration in groundwater from the entire monitoring network for each contaminant is below its respective groundwater standard.
- Continue monitoring groundwater and surface water during the winter quarter to limit seasonal variation and to provide seasonally consistent data when groundwater and surface water levels are typically low and analyte concentrations are typically the highest.
- Reduce sampling frequency from annual to every other year.

8.0 References

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Appendix A
Groundwater Data

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CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Alkalinity, Total (As CaCO3)	mg/L	10-19N	WL	03/20/2006	0001	AL	O	387	F #	-	-
	mg/L	10-19N	WL	02/14/2007	0001	AL	O	438	F #	-	-
	mg/L	10-19N	WL	02/27/2008	N001	AL	O	432	F #	-	-
	mg/L	11-1S	WL	03/21/2006	0001	AL	O	176	F #	-	-
	mg/L	11-1S	WL	02/14/2007	0001	AL	O	151	F #	-	-
	mg/L	11-1S	WL	02/26/2008	N001	AL	O	153	F #	-	-
	mg/L	14-13NA	WL	03/20/2006	0001	AL	O	322	F #	-	-
	mg/L	14-13NA	WL	02/14/2007	0001	AL	O	304	F #	-	-
	mg/L	14-13NA	WL	02/26/2008	N001	AL	O	328	F #	-	-
	mg/L	6-2N	WL	03/20/2006	0001	AL	O	237	F #	-	-
	mg/L	6-2N	WL	02/13/2007	0001	AL	O	227	F #	-	-
	mg/L	6-2N	WL	02/25/2008	N001	AL	O	242	F #	-	-
	mg/L	8-4S	WL	03/20/2006	0001	AL	O	301	F #	-	-
	mg/L	8-4S	WL	02/14/2007	0001	AL	O	238	F #	-	-
	mg/L	8-4S	WL	02/26/2008	N001	AL	O	225	F #	-	-
	mg/L	GJ01-01	WL	03/20/2006	0001	AL		317	F #	-	-
	mg/L	GJ01-01	WL	02/13/2007	0001	AL		278	F #	-	-
	mg/L	GJ01-01	WL	02/25/2008	N001	AL		292	F #	-	-
	mg/L	GJ84-04	WL	03/21/2006	0001	AL	D	248	F #	-	-
	mg/L	GJ84-04	WL	02/14/2007	0001	AL	D	228	F #	-	-
	mg/L	GJ84-04	WL	02/27/2008	N001	AL	D	256	F #	-	-
Manganese	mg/L	10-19N	WL	03/20/2006	0001	AL	O	4.700	F #	0.00016	-
	mg/L	10-19N	WL	02/14/2007	0001	AL	O	4.000	F #	0.00052	-
	mg/L	10-19N	WL	02/27/2008	N001	AL	O	3.000	F #	0.00015	-
	mg/L	10-19N	WL	02/04/2009	N001	AL	O	3.900	F #	9.7E-05	-
	mg/L	10-19N	WL	02/19/2010	N001	AL	O	2.800	F #	0.00011	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Manganese	mg/L	11-1S	WL	03/21/2006	0001	AL	O	0.380	F #	5.4E-05	-
	mg/L	11-1S	WL	02/14/2007	0001	AL	O	0.840	F #	0.0001	-
	mg/L	11-1S	WL	02/26/2008	N001	AL	O	0.820	F #	0.00015	-
	mg/L	11-1S	WL	02/04/2009	N001	AL	O	0.680	F #	9.7E-05	-
	mg/L	11-1S	WL	02/18/2010	N001	AL	O	0.550	F #	0.00011	-
	mg/L	14-13NA	WL	03/20/2006	0001	AL	O	4.600	F #	0.00011	-
	mg/L	14-13NA	WL	02/14/2007	0001	AL	O	5.000	F #	0.00021	-
	mg/L	14-13NA	WL	02/26/2008	N001	AL	O	4.100	F #	0.00015	-
	mg/L	14-13NA	WL	02/04/2009	N001	AL	O	4.000	F #	9.7E-05	-
	mg/L	14-13NA	WL	02/19/2010	N001	AL	O	3.500	F #	0.00011	-
	mg/L	6-2N	WL	03/20/2006	0001	AL	O	0.860	F #	5.4E-05	-
	mg/L	6-2N	WL	02/13/2007	0001	AL	O	0.850	F #	0.0001	-
	mg/L	6-2N	WL	02/25/2008	N001	AL	O	0.690	F #	0.00015	-
	mg/L	6-2N	WL	02/04/2009	N001	AL	O	0.720	F #	9.7E-05	-
	mg/L	6-2N	WL	02/18/2010	N001	AL	O	0.790	F #	0.00011	-
	mg/L	8-4S	WL	03/20/2006	0001	AL	O	0.810	F #	5.4E-05	-
	mg/L	8-4S	WL	02/14/2007	0001	AL	O	0.780	F #	0.0001	-
	mg/L	8-4S	WL	02/26/2008	N001	AL	O	1.200	F #	0.00015	-
	mg/L	8-4S	WL	02/26/2008	N002	AL	O	1.200	F #	0.00015	-
	mg/L	8-4S	WL	02/04/2009	N001	AL	O	1.000	F #	9.7E-05	-
	mg/L	8-4S	WL	02/18/2010	N001	AL	O	1.400	F #	0.00011	-
	mg/L	8-4S	WL	02/18/2010	N002	AL	O	1.500	F #	0.00011	-
	mg/L	GJ01-01	WL	03/20/2006	0001	AL		0.310	F #	5.4E-05	-
	mg/L	GJ01-01	WL	02/13/2007	0001	AL		0.360	F #	0.0001	-
	mg/L	GJ01-01	WL	02/13/2007	0002	AL		0.360	F #	0.0001	-
	mg/L	GJ01-01	WL	02/25/2008	N001	AL		0.410	F #	0.00015	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Manganese	mg/L	GJ01-01	WL	02/04/2009	N001	AL		0.390	F #	9.7E-05	-
	mg/L	GJ01-01	WL	02/18/2010	N001	AL		0.530	F #	0.00011	-
	mg/L	GJ84-04	WL	03/21/2006	0001	AL	D	3.600	F #	0.00011	-
	mg/L	GJ84-04	WL	02/14/2007	0001	AL	D	3.600	F #	0.0001	-
	mg/L	GJ84-04	WL	02/27/2008	N001	AL	D	3.300	F #	0.00015	-
	mg/L	GJ84-04	WL	02/04/2009	N001	AL	D	4.100	F #	9.7E-05	-
	mg/L	GJ84-04	WL	02/18/2010	N001	AL	D	3.800	F #	0.00011	-
Molybdenum	mg/L	10-19N	WL	03/20/2006	0001	AL	O	0.032	F #	9.3E-05	-
	mg/L	10-19N	WL	02/14/2007	0001	AL	O	0.073	F #	0.00038	-
	mg/L	10-19N	WL	02/27/2008	N001	AL	O	0.060	F #	0.00056	-
	mg/L	10-19N	WL	02/04/2009	N001	AL	O	0.041	F #	5.2E-05	-
	mg/L	10-19N	WL	02/19/2010	N001	AL	O	0.025	F #	8.8E-05	-
	mg/L	11-1S	WL	03/21/2006	0001	AL	O	0.026	F #	9.3E-05	-
	mg/L	11-1S	WL	02/14/2007	0001	AL	O	0.016	F #	7.7E-05	-
	mg/L	11-1S	WL	02/26/2008	N001	AL	O	0.014	F #	0.00011	-
	mg/L	11-1S	WL	02/04/2009	N001	AL	O	0.022	F #	0.0001	-
	mg/L	11-1S	WL	02/18/2010	N001	AL	O	0.024	F #	4.4E-05	-
	mg/L	14-13NA	WL	03/20/2006	0001	AL	O	0.140	F #	0.00093	-
	mg/L	14-13NA	WL	02/14/2007	0001	AL	O	0.140	F #	0.00077	-
	mg/L	14-13NA	WL	02/26/2008	N001	AL	O	0.150	F #	0.0011	-
	mg/L	14-13NA	WL	02/04/2009	N001	AL	O	0.150	F #	0.00052	-
	mg/L	14-13NA	WL	02/19/2010	N001	AL	O	0.120	F #	0.00022	-
	mg/L	6-2N	WL	03/20/2006	0001	AL	O	0.057	F #	0.00093	-
	mg/L	6-2N	WL	02/13/2007	0001	AL	O	0.056	F #	7.7E-05	-
	mg/L	6-2N	WL	02/25/2008	N001	AL	O	0.061	F #	0.00056	-
	mg/L	6-2N	WL	02/04/2009	N001	AL	O	0.046	F #	0.0001	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Molybdenum	mg/L	6-2N	WL	02/18/2010	N001	AL	O	0.027	F #	4.4E-05	-
	mg/L	8-4S	WL	03/20/2006	0001	AL	O	0.026	F #	9.3E-05	-
	mg/L	8-4S	WL	02/14/2007	0001	AL	O	0.130	F #	0.00077	-
	mg/L	8-4S	WL	02/26/2008	N001	AL	O	0.190	F #	0.0011	-
	mg/L	8-4S	WL	02/26/2008	N002	AL	O	0.190	F #	0.0011	-
	mg/L	8-4S	WL	02/04/2009	N001	AL	O	0.140	F #	0.00052	-
	mg/L	8-4S	WL	02/18/2010	N001	AL	O	0.170	F #	0.00044	-
	mg/L	8-4S	WL	02/18/2010	N002	AL	O	0.150	F #	0.00044	-
	mg/L	GJ01-01	WL	03/20/2006	0001	AL		0.110	F #	0.00093	-
	mg/L	GJ01-01	WL	02/13/2007	0001	AL		0.110	F #	0.00077	-
	mg/L	GJ01-01	WL	02/13/2007	0002	AL		0.110	F #	0.00077	-
	mg/L	GJ01-01	WL	02/25/2008	N001	AL		0.120	F #	0.0011	-
	mg/L	GJ01-01	WL	02/04/2009	N001	AL		0.110	F #	0.00026	-
	mg/L	GJ01-01	WL	02/18/2010	N001	AL		0.096	F #	0.00022	-
	mg/L	GJ84-04	WL	03/21/2006	0001	AL	D	0.097	F #	0.00093	-
	mg/L	GJ84-04	WL	02/14/2007	0001	AL	D	0.076	F #	7.7E-05	-
	mg/L	GJ84-04	WL	02/27/2008	N001	AL	D	0.083	F #	0.00056	-
	mg/L	GJ84-04	WL	02/04/2009	N001	AL	D	0.094	F #	0.00052	-
	mg/L	GJ84-04	WL	02/18/2010	N001	AL	D	0.088	F #	0.00022	-
Oxidation Reduction Potential	mV	10-19N	WL	03/20/2006	N001	AL	O	80.8	F #	-	-
	mV	10-19N	WL	02/14/2007	N001	AL	O	-117.4	F #	-	-
	mV	10-19N	WL	02/27/2008	N001	AL	O	-23	F #	-	-
	mV	10-19N	WL	02/04/2009	N001	AL	O	8.7	F #	-	-
	mV	10-19N	WL	02/19/2010	N001	AL	O	31.4	F #	-	-
	mV	11-1S	WL	03/21/2006	N001	AL	O	-21.6	F #	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potential	mV	11-1S	WL	02/14/2007	N001	AL	O	-128.1	F #	-	-
	mV	11-1S	WL	02/26/2008	N001	AL	O	-97	F #	-	-
	mV	11-1S	WL	02/04/2009	N001	AL	O	33.2	F #	-	-
	mV	11-1S	WL	02/18/2010	N001	AL	O	39.2	F #	-	-
	mV	14-13NA	WL	03/20/2006	N001	AL	O	24.6	F #	-	-
	mV	14-13NA	WL	02/14/2007	N001	AL	O	18.0	F #	-	-
	mV	14-13NA	WL	02/26/2008	N001	AL	O	3.5	F #	-	-
	mV	14-13NA	WL	02/04/2009	N001	AL	O	85.6	F #	-	-
	mV	14-13NA	WL	02/19/2010	N001	AL	O	119.7	F #	-	-
	mV	6-2N	WL	03/20/2006	N001	AL	O	109.8	F #	-	-
	mV	6-2N	WL	02/13/2007	N001	AL	O	90.1	F #	-	-
	mV	6-2N	WL	02/25/2008	N001	AL	O	116	F #	-	-
	mV	6-2N	WL	02/04/2009	N001	AL	O	74.6	F #	-	-
	mV	6-2N	WL	02/18/2010	N001	AL	O	56.8	F #	-	-
	mV	8-4S	WL	03/20/2006	N001	AL	O	-56.8	F #	-	-
	mV	8-4S	WL	02/14/2007	N001	AL	O	-70.8	F #	-	-
	mV	8-4S	WL	02/26/2008	N001	AL	O	20	F #	-	-
	mV	8-4S	WL	02/04/2009	N001	AL	O	62.7	F #	-	-
	mV	8-4S	WL	02/18/2010	N001	AL	O	91.3	F #	-	-
	mV	GJ01-01	WL	03/20/2006	N001	AL		117.1	F #	-	-
	mV	GJ01-01	WL	02/13/2007	N001	AL		98.0	F #	-	-
	mV	GJ01-01	WL	02/25/2008	N001	AL		120	F #	-	-
	mV	GJ01-01	WL	02/04/2009	N001	AL		70.0	F #	-	-
	mV	GJ01-01	WL	02/18/2010	N001	AL		72.0	F #	-	-
	mV	GJ84-04	WL	03/21/2006	N001	AL	D	-26.1	F #	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potential	mV	GJ84-04	WL	02/14/2007	N001	AL	D	-68.4	F #	-	-
	mV	GJ84-04	WL	02/27/2008	N001	AL	D	-24	F #	-	-
	mV	GJ84-04	WL	02/04/2009	N001	AL	D	-9.2	F #	-	-
	mV	GJ84-04	WL	02/18/2010	N001	AL	D	46.4	F #	-	-
pH	s.u.	10-19N	WL	03/20/2006	N001	AL	O	7.15	F #	-	-
	s.u.	10-19N	WL	02/14/2007	N001	AL	O	7.35	F #	-	-
	s.u.	10-19N	WL	02/27/2008	N001	AL	O	6.99	F #	-	-
	s.u.	10-19N	WL	02/04/2009	N001	AL	O	7.15	F #	-	-
	s.u.	10-19N	WL	02/19/2010	N001	AL	O	7.13	F #	-	-
	s.u.	11-1S	WL	03/21/2006	N001	AL	O	7.38	F #	-	-
	s.u.	11-1S	WL	02/14/2007	N001	AL	O	7.69	F #	-	-
	s.u.	11-1S	WL	02/26/2008	N001	AL	O	7.42	F #	-	-
	s.u.	11-1S	WL	02/04/2009	N001	AL	O	7.38	F #	-	-
	s.u.	11-1S	WL	02/18/2010	N001	AL	O	7.30	F #	-	-
	s.u.	14-13NA	WL	03/20/2006	N001	AL	O	7.17	F #	-	-
	s.u.	14-13NA	WL	02/14/2007	N001	AL	O	7.29	F #	-	-
	s.u.	14-13NA	WL	02/26/2008	N001	AL	O	6.87	F #	-	-
	s.u.	14-13NA	WL	02/04/2009	N001	AL	O	7.12	F #	-	-
	s.u.	14-13NA	WL	02/19/2010	N001	AL	O	6.98	F #	-	-
	s.u.	6-2N	WL	03/20/2006	N001	AL	O	7.64	F #	-	-
	s.u.	6-2N	WL	02/13/2007	N001	AL	O	7.74	F #	-	-
	s.u.	6-2N	WL	02/25/2008	N001	AL	O	7.48	F #	-	-
	s.u.	6-2N	WL	02/04/2009	N001	AL	O	7.72	F #	-	-
	s.u.	6-2N	WL	02/18/2010	N001	AL	O	7.64	F #	-	-
	s.u.	8-4S	WL	03/20/2006	N001	AL	O	6.95	F #	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	8-4S	WL	02/14/2007	N001	AL	O	7.24	F #	-	-
	s.u.	8-4S	WL	02/26/2008	N001	AL	O	6.92	F #	-	-
	s.u.	8-4S	WL	02/04/2009	N001	AL	O	7.32	F #	-	-
	s.u.	8-4S	WL	02/18/2010	N001	AL	O	7.11	F #	-	-
	s.u.	GJ01-01	WL	03/20/2006	N001	AL		7.40	F #	-	-
	s.u.	GJ01-01	WL	02/13/2007	N001	AL		7.53	F #	-	-
	s.u.	GJ01-01	WL	02/25/2008	N001	AL		7.28	F #	-	-
	s.u.	GJ01-01	WL	02/04/2009	N001	AL		7.35	F #	-	-
	s.u.	GJ01-01	WL	02/18/2010	N001	AL		7.31	F #	-	-
	s.u.	GJ84-04	WL	03/21/2006	N001	AL	D	7.18	F #	-	-
	s.u.	GJ84-04	WL	02/14/2007	N001	AL	D	7.42	F #	-	-
	s.u.	GJ84-04	WL	02/27/2008	N001	AL	D	6.87	F #	-	-
	s.u.	GJ84-04	WL	02/04/2009	N001	AL	D	7.16	F #	-	-
	s.u.	GJ84-04	WL	02/18/2010	N001	AL	D	7.14	F #	-	-
Selenium	mg/L	10-19N	WL	03/20/2006	0001	AL	O	0.00059	F #	6.6E-05	-
	mg/L	10-19N	WL	02/14/2007	0001	AL	O	0.0017	F #	4.9E-05	-
	mg/L	10-19N	WL	02/27/2008	N001	AL	O	0.00067	F #	1.9E-05	-
	mg/L	10-19N	WL	02/04/2009	N001	AL	O	0.00048	F #	1.7E-05	-
	mg/L	10-19N	WL	02/19/2010	N001	AL	O	0.00071	F #	2.3E-05	-
	mg/L	11-1S	WL	03/21/2006	0001	AL	O	0.00028	F #	3.3E-05	-
	mg/L	11-1S	WL	02/14/2007	0001	AL	O	0.0002	F #	4.9E-05	-
	mg/L	11-1S	WL	02/26/2008	N001	AL	O	0.00009	B UF #	1.9E-05	-
	mg/L	11-1S	WL	02/04/2009	N001	AL	O	0.0001	UF #	1.7E-05	-
	mg/L	11-1S	WL	02/18/2010	N001	AL	O	0.00012	UF #	2.3E-05	-
	mg/L	14-13NA	WL	03/20/2006	0001	AL	O	0.00029	F #	6.6E-05	-
	mg/L	14-13NA	WL	02/14/2007	0001	AL	O	0.0013	F #	4.9E-05	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Selenium	mg/L	14-13NA	WL	02/26/2008	N001	AL	O	0.00022	UF #	1.9E-05	-
	mg/L	14-13NA	WL	02/04/2009	N001	AL	O	0.0002	F #	1.7E-05	-
	mg/L	14-13NA	WL	02/19/2010	N001	AL	O	0.00061	F #	2.3E-05	-
	mg/L	6-2N	WL	03/20/2006	0001	AL	O	0.068	F #	0.00066	-
	mg/L	6-2N	WL	02/13/2007	0001	AL	O	0.057	F #	0.00024	-
	mg/L	6-2N	WL	02/25/2008	N001	AL	O	0.047	F #	9.5E-05	-
	mg/L	6-2N	WL	02/04/2009	N001	AL	O	0.043	F #	8.4E-05	-
	mg/L	6-2N	WL	02/18/2010	N001	AL	O	0.026	F #	4.7E-05	-
	mg/L	8-4S	WL	03/20/2006	0001	AL	O	0.00091	F #	3.3E-05	-
	mg/L	8-4S	WL	02/14/2007	0001	AL	O	0.011	F #	9.7E-05	-
	mg/L	8-4S	WL	02/26/2008	N001	AL	O	0.015	F #	3.8E-05	-
	mg/L	8-4S	WL	02/26/2008	N002	AL	O	0.015	F #	9.5E-05	-
	mg/L	8-4S	WL	02/04/2009	N001	AL	O	0.024	F #	8.4E-05	-
	mg/L	8-4S	WL	02/18/2010	N001	AL	O	0.020	F #	4.7E-05	-
	mg/L	8-4S	WL	02/18/2010	N002	AL	O	0.020	F #	4.7E-05	-
	mg/L	GJ01-01	WL	03/20/2006	0001	AL		0.036	F #	6.6E-05	-
	mg/L	GJ01-01	WL	02/13/2007	0001	AL		0.037	F #	0.00024	-
	mg/L	GJ01-01	WL	02/13/2007	0002	AL		0.039	F #	0.00024	-
	mg/L	GJ01-01	WL	02/25/2008	N001	AL		0.033	F #	9.5E-05	-
	mg/L	GJ01-01	WL	02/04/2009	N001	AL		0.027	F #	8.4E-05	-
	mg/L	GJ01-01	WL	02/18/2010	N001	AL		0.023	F #	4.7E-05	-
	mg/L	GJ84-04	WL	03/21/2006	0001	AL	D	0.00012	F #	3.3E-05	-
	mg/L	GJ84-04	WL	02/14/2007	0001	AL	D	0.00096	F #	4.9E-05	-
	mg/L	GJ84-04	WL	02/27/2008	N001	AL	D	0.00013	UF #	1.9E-05	-
	mg/L	GJ84-04	WL	02/04/2009	N001	AL	D	0.00017	F #	1.7E-05	-
	mg/L	GJ84-04	WL	02/18/2010	N001	AL	D	0.00013	UF #	2.3E-05	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	10-19N	WL	03/20/2006	N001	AL	O	7062	F #	-	-
	umhos/cm	10-19N	WL	02/14/2007	N001	AL	O	8169	F #	-	-
	umhos/cm	10-19N	WL	02/27/2008	N001	AL	O	6690	F #	-	-
	umhos/cm	10-19N	WL	02/04/2009	N001	AL	O	6474	F #	-	-
	umhos/cm	10-19N	WL	02/19/2010	N001	AL	O	5319	F #	-	-
	umhos/cm	11-1S	WL	03/21/2006	N001	AL	O	987	F #	-	-
	umhos/cm	11-1S	WL	02/14/2007	N001	AL	O	856	F #	-	-
	umhos/cm	11-1S	WL	02/26/2008	N001	AL	O	850	F #	-	-
	umhos/cm	11-1S	WL	02/04/2009	N001	AL	O	963	F #	-	-
	umhos/cm	11-1S	WL	02/18/2010	N001	AL	O	851	F #	-	-
	umhos/cm	14-13NA	WL	03/20/2006	N001	AL	O	3604	F #	-	-
	umhos/cm	14-13NA	WL	02/14/2007	N001	AL	O	3559	F #	-	-
	umhos/cm	14-13NA	WL	02/26/2008	N001	AL	O	3313	F #	-	-
	umhos/cm	14-13NA	WL	02/04/2009	N001	AL	O	3356	F #	-	-
	umhos/cm	14-13NA	WL	02/19/2010	N001	AL	O	2999	F #	-	-
	umhos/cm	6-2N	WL	03/20/2006	N001	AL	O	2210	F #	-	-
	umhos/cm	6-2N	WL	02/13/2007	N001	AL	O	2072	F #	-	-
	umhos/cm	6-2N	WL	02/25/2008	N001	AL	O	2033	F #	-	-
	umhos/cm	6-2N	WL	02/04/2009	N001	AL	O	2155	F #	-	-
	umhos/cm	6-2N	WL	02/18/2010	N001	AL	O	2408	F #	-	-
	umhos/cm	8-4S	WL	03/20/2006	N001	AL	O	2584	F #	-	-
	umhos/cm	8-4S	WL	02/14/2007	N001	AL	O	1904	F #	-	-
	umhos/cm	8-4S	WL	02/26/2008	N001	AL	O	2359	F #	-	-
	umhos/cm	8-4S	WL	02/04/2009	N001	AL	O	1788	F #	-	-
	umhos/cm	8-4S	WL	02/18/2010	N001	AL	O	1720	F #	-	-
	umhos/cm	GJ01-01	WL	03/20/2006	N001	AL		1644	F #	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	GJ01-01	WL	02/13/2007	N001	AL		1688	F #	-	-
	umhos/cm	GJ01-01	WL	02/25/2008	N001	AL		1729	F #	-	-
	umhos/cm	GJ01-01	WL	02/04/2009	N001	AL		1679	F #	-	-
	umhos/cm	GJ01-01	WL	02/18/2010	N001	AL		1706	F #	-	-
	umhos/cm	GJ84-04	WL	03/21/2006	N001	AL	D	3091	F #	-	-
	umhos/cm	GJ84-04	WL	02/14/2007	N001	AL	D	2881	F #	-	-
	umhos/cm	GJ84-04	WL	02/27/2008	N001	AL	D	2692	F #	-	-
	umhos/cm	GJ84-04	WL	02/04/2009	N001	AL	D	3437	F #	-	-
	umhos/cm	GJ84-04	WL	02/18/2010	N001	AL	D	3228	F #	-	-
Sulfate	mg/L	10-19N	WL	03/20/2006	0001	AL	O	3700	F #	50	-
	mg/L	10-19N	WL	02/14/2007	0001	AL	O	4100	F #	50	-
	mg/L	10-19N	WL	02/27/2008	N001	AL	O	3300	F #	25	-
	mg/L	10-19N	WL	02/04/2009	N001	AL	O	3300	F #	50	-
	mg/L	10-19N	WL	02/19/2010	N001	AL	O	2700	F #	25	-
	mg/L	11-1S	WL	03/21/2006	0001	AL	O	350	F #	5	-
	mg/L	11-1S	WL	02/14/2007	0001	AL	O	280	F #	5	-
	mg/L	11-1S	WL	02/26/2008	N001	AL	O	280	F #	2.5	-
	mg/L	11-1S	WL	02/04/2009	N001	AL	O	350	F #	5	-
	mg/L	11-1S	WL	02/18/2010	N001	AL	O	280	F #	5	-
	mg/L	14-13NA	WL	03/20/2006	0001	AL	O	1700	F #	25	-
	mg/L	14-13NA	WL	02/14/2007	0001	AL	O	1600	F #	25	-
	mg/L	14-13NA	WL	02/26/2008	N001	AL	O	1500	F #	10	-
	mg/L	14-13NA	WL	02/04/2009	N001	AL	O	1500	F #	25	-
	mg/L	14-13NA	WL	02/19/2010	N001	AL	O	1400	F #	25	-
	mg/L	6-2N	WL	03/20/2006	0001	AL	O	930	F #	25	-
	mg/L	6-2N	WL	02/13/2007	0001	AL	O	860	F #	10	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	6-2N	WL	02/25/2008	N001	AL	O	790	F #	10	-
	mg/L	6-2N	WL	02/04/2009	N001	AL	O	880	F #	10	-
	mg/L	6-2N	WL	02/18/2010	N001	AL	O	1000	F #	10	-
	mg/L	8-4S	WL	03/20/2006	0001	AL	O	1400	F #	25	-
	mg/L	8-4S	WL	02/14/2007	0001	AL	O	730	F #	10	-
	mg/L	8-4S	WL	02/26/2008	N001	AL	O	1100	F #	10	-
	mg/L	8-4S	WL	02/26/2008	N002	AL	O	1000	F #	10	-
	mg/L	8-4S	WL	02/04/2009	N001	AL	O	640	F #	10	-
	mg/L	8-4S	WL	02/18/2010	N001	AL	O	630	F #	10	-
	mg/L	8-4S	WL	02/18/2010	N002	AL	O	630	F #	10	-
	mg/L	GJ01-01	WL	03/20/2006	0001	AL		530	F #	10	-
	mg/L	GJ01-01	WL	02/13/2007	0001	AL		580	F #	10	-
	mg/L	GJ01-01	WL	02/13/2007	0002	AL		570	F #	10	-
	mg/L	GJ01-01	WL	02/25/2008	N001	AL		560	F #	10	-
	mg/L	GJ01-01	WL	02/04/2009	N001	AL		590	F #	10	-
	mg/L	GJ01-01	WL	02/18/2010	N001	AL		580	F #	10	-
	mg/L	GJ84-04	WL	03/21/2006	0001	AL	D	1400	F #	25	-
	mg/L	GJ84-04	WL	02/14/2007	0001	AL	D	1300	F #	10	-
	mg/L	GJ84-04	WL	02/27/2008	N001	AL	D	1200	F #	10	-
	mg/L	GJ84-04	WL	02/04/2009	N001	AL	D	1600	F #	25	-
	mg/L	GJ84-04	WL	02/18/2010	N001	AL	D	1500	F #	25	-
Temperature	C	10-19N	WL	03/20/2006	N001	AL	O	12.18	F #	-	-
	C	10-19N	WL	02/14/2007	N001	AL	O	11.14	F #	-	-
	C	10-19N	WL	02/27/2008	N001	AL	O	11.5	F #	-	-
	C	10-19N	WL	02/04/2009	N001	AL	O	12.32	F #	-	-
	C	10-19N	WL	02/19/2010	N001	AL	O	10.77	F #	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	11-1S	WL	03/21/2006	N001	AL	O	13.06	F #	-	-
	C	11-1S	WL	02/14/2007	N001	AL	O	13.17	F #	-	-
	C	11-1S	WL	02/26/2008	N001	AL	O	13.83	F #	-	-
	C	11-1S	WL	02/04/2009	N001	AL	O	12.98	F #	-	-
	C	11-1S	WL	02/18/2010	N001	AL	O	12.41	F #	-	-
	C	14-13NA	WL	03/20/2006	N001	AL	O	12.27	F #	-	-
	C	14-13NA	WL	02/14/2007	N001	AL	O	12.40	F #	-	-
	C	14-13NA	WL	02/26/2008	N001	AL	O	12.96	F #	-	-
	C	14-13NA	WL	02/04/2009	N001	AL	O	13.43	F #	-	-
	C	14-13NA	WL	02/19/2010	N001	AL	O	12.65	F #	-	-
	C	6-2N	WL	03/20/2006	N001	AL	O	17.58	F #	-	-
	C	6-2N	WL	02/13/2007	N001	AL	O	17.92	F #	-	-
	C	6-2N	WL	02/25/2008	N001	AL	O	18.15	F #	-	-
	C	6-2N	WL	02/04/2009	N001	AL	O	17.77	F #	-	-
	C	6-2N	WL	02/18/2010	N001	AL	O	17.48	F #	-	-
	C	8-4S	WL	03/20/2006	N001	AL	O	11.47	F #	-	-
	C	8-4S	WL	02/14/2007	N001	AL	O	12.31	F #	-	-
	C	8-4S	WL	02/26/2008	N001	AL	O	12.34	F #	-	-
	C	8-4S	WL	02/04/2009	N001	AL	O	13.89	F #	-	-
	C	8-4S	WL	02/18/2010	N001	AL	O	12.29	F #	-	-
	C	GJ01-01	WL	03/20/2006	N001	AL		14.67	F #	-	-
	C	GJ01-01	WL	02/13/2007	N001	AL		14.71	F #	-	-
	C	GJ01-01	WL	02/25/2008	N001	AL		14.61	F #	-	-
	C	GJ01-01	WL	02/04/2009	N001	AL		14.75	F #	-	-
	C	GJ01-01	WL	02/18/2010	N001	AL		13.51	F #	-	-
	C	GJ84-04	WL	03/21/2006	N001	AL	D	11.74	F #	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	GJ84-04	WL	02/14/2007	N001	AL	D	11.94	F #	-	-
	C	GJ84-04	WL	02/27/2008	N001	AL	D	12.4	F #	-	-
	C	GJ84-04	WL	02/04/2009	N001	AL	D	12.91	F #	-	-
	C	GJ84-04	WL	02/18/2010	N001	AL	D	12.04	F #	-	-
Turbidity	NTU	10-19N	WL	03/20/2006	N001	AL	O	6.07	F #	-	-
	NTU	10-19N	WL	02/14/2007	N001	AL	O	7.65	F #	-	-
	NTU	10-19N	WL	02/27/2008	N001	AL	O	2.18	F #	-	-
	NTU	10-19N	WL	02/04/2009	N001	AL	O	9.4	F #	-	-
	NTU	10-19N	WL	02/19/2010	N001	AL	O	8.89	F #	-	-
	NTU	11-1S	WL	03/21/2006	N001	AL	O	0.39	F #	-	-
	NTU	11-1S	WL	02/14/2007	N001	AL	O	1.55	F #	-	-
	NTU	11-1S	WL	02/26/2008	N001	AL	O	2.38	F #	-	-
	NTU	11-1S	WL	02/04/2009	N001	AL	O	0.93	F #	-	-
	NTU	11-1S	WL	02/18/2010	N001	AL	O	1.87	F #	-	-
	NTU	14-13NA	WL	03/20/2006	N001	AL	O	1.68	F #	-	-
	NTU	14-13NA	WL	02/14/2007	N001	AL	O	0.91	F #	-	-
	NTU	14-13NA	WL	02/26/2008	N001	AL	O	0.53	F #	-	-
	NTU	14-13NA	WL	02/04/2009	N001	AL	O	1.37	F #	-	-
	NTU	14-13NA	WL	02/19/2010	N001	AL	O	1.21	F #	-	-
	NTU	6-2N	WL	03/20/2006	N001	AL	O	0.55	F #	-	-
	NTU	6-2N	WL	02/13/2007	N001	AL	O	0.70	F #	-	-
	NTU	6-2N	WL	02/25/2008	N001	AL	O	0.33	F #	-	-
	NTU	6-2N	WL	02/04/2009	N001	AL	O	0.92	F #	-	-
	NTU	6-2N	WL	02/18/2010	N001	AL	O	2.97	F #	-	-
	NTU	8-4S	WL	03/20/2006	N001	AL	O	2.14	F #	-	-
	NTU	8-4S	WL	02/14/2007	N001	AL	O	8.62	F #	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	8-4S	WL	02/26/2008	N001	AL	O	7.79	F #	-	-
	NTU	8-4S	WL	02/04/2009	N001	AL	O	0.96	F #	-	-
	NTU	8-4S	WL	02/18/2010	N001	AL	O	4.78	F #	-	-
	NTU	GJ01-01	WL	03/20/2006	N001	AL		0.77	F #	-	-
	NTU	GJ01-01	WL	02/13/2007	N001	AL		0.85	F #	-	-
	NTU	GJ01-01	WL	02/25/2008	N001	AL		0.32	F #	-	-
	NTU	GJ01-01	WL	02/04/2009	N001	AL		1.76	F #	-	-
	NTU	GJ01-01	WL	02/18/2010	N001	AL		2.13	F #	-	-
	NTU	GJ84-04	WL	03/21/2006	N001	AL	D	4.37	F #	-	-
	NTU	GJ84-04	WL	02/14/2007	N001	AL	D	5.27	F #	-	-
	NTU	GJ84-04	WL	02/27/2008	N001	AL	D	7.82	F #	-	-
	NTU	GJ84-04	WL	02/04/2009	N001	AL	D	6.03	F #	-	-
	NTU	GJ84-04	WL	02/18/2010	N001	AL	D	8.12	F #	-	-
Uranium	mg/L	10-19N	WL	03/20/2006	0001	AL	O	0.310	F #	2.4E-05	-
	mg/L	10-19N	WL	02/14/2007	0001	AL	O	0.350	F #	4.5E-05	-
	mg/L	10-19N	WL	02/27/2008	N001	AL	O	0.250	F #	0.00003	-
	mg/L	10-19N	WL	02/04/2009	N001	AL	O	0.240	F #	1.5E-05	-
	mg/L	10-19N	WL	02/19/2010	N001	AL	O	0.160	F #	3.5E-06	-
	mg/L	11-1S	WL	03/21/2006	0001	AL	O	0.089	F #	2.4E-06	-
	mg/L	11-1S	WL	02/14/2007	0001	AL	O	0.035	F #	9E-06	-
	mg/L	11-1S	WL	02/26/2008	N001	AL	O	0.034	F #	5.9E-06	-
	mg/L	11-1S	WL	02/04/2009	N001	AL	O	0.061	F #	6.2E-06	-
	mg/L	11-1S	WL	02/18/2010	N001	AL	O	0.049	F #	1.8E-06	-
	mg/L	14-13NA	WL	03/20/2006	0001	AL	O	0.470	F #	2.4E-05	-
	mg/L	14-13NA	WL	02/14/2007	0001	AL	O	0.480	F #	0.00009	-
	mg/L	14-13NA	WL	02/26/2008	N001	AL	O	0.470	F #	5.9E-05	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Uranium	mg/L	14-13NA	WL	02/04/2009	N001	AL	O	0.440	F #	3.1E-05	-
	mg/L	14-13NA	WL	02/19/2010	N001	AL	O	0.330	F #	8.8E-06	-
	mg/L	6-2N	WL	03/20/2006	0001	AL	O	0.190	F #	2.4E-05	-
	mg/L	6-2N	WL	02/13/2007	0001	AL	O	0.180	F #	4.5E-05	-
	mg/L	6-2N	WL	02/25/2008	N001	AL	O	0.160	F #	0.00003	-
	mg/L	6-2N	WL	02/04/2009	N001	AL	O	0.110	F #	6.2E-06	-
	mg/L	6-2N	WL	02/18/2010	N001	AL	O	0.068	F #	1.8E-06	-
	mg/L	8-4S	WL	03/20/2006	0001	AL	O	0.210	F #	2.4E-05	-
	mg/L	8-4S	WL	02/14/2007	0001	AL	O	0.470	F #	0.00009	-
	mg/L	8-4S	WL	02/26/2008	N001	AL	O	0.620	F #	5.9E-05	-
	mg/L	8-4S	WL	02/26/2008	N002	AL	O	0.600	F #	5.9E-05	-
	mg/L	8-4S	WL	02/04/2009	N001	AL	O	0.520	F #	3.1E-05	-
	mg/L	8-4S	WL	02/18/2010	N001	AL	O	0.570	F #	1.8E-05	-
	mg/L	8-4S	WL	02/18/2010	N002	AL	O	0.530	F #	1.8E-05	-
	mg/L	GJ01-01	WL	03/20/2006	0001	AL		0.390	F #	2.4E-05	-
	mg/L	GJ01-01	WL	02/13/2007	0001	AL		0.400	F #	0.00009	-
	mg/L	GJ01-01	WL	02/13/2007	0002	AL		0.400	F #	0.00009	-
	mg/L	GJ01-01	WL	02/25/2008	N001	AL		0.380	F #	5.9E-05	-
	mg/L	GJ01-01	WL	02/04/2009	N001	AL		0.320	F #	1.5E-05	-
	mg/L	GJ01-01	WL	02/18/2010	N001	AL		0.320	F #	8.8E-06	-
	mg/L	GJ84-04	WL	03/21/2006	0001	AL	D	0.350	F #	2.4E-05	-
	mg/L	GJ84-04	WL	02/14/2007	0001	AL	D	0.300	F #	0.00009	-
	mg/L	GJ84-04	WL	02/27/2008	N001	AL	D	0.290	F #	0.00003	-
	mg/L	GJ84-04	WL	02/04/2009	N001	AL	D	0.380	F #	3.1E-05	-
	mg/L	GJ84-04	WL	02/18/2010	N001	AL	D	0.340	F #	8.8E-06	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:33 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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RECORDS: SELECTED FROM USEE200 WHERE site_code='GJO01' AND quality_assurance = TRUE AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND DATE_SAMPLED between #1/1/2006# and #12/31/2010#

SAMPLE ID CODES: 000X = Filtered sample. N00X = Unfiltered sample. X = replicate number.

LOCATION TYPES: WL WELL

ZONES OF COMPLETION: a zone of completion with a "-" is cross-screened and, therefore, has two zones of completion (1st zone - 2nd zone).

AL ALLUVIUM

FLOW CODES: D DOWN GRADIENT O ON-SITE

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- > Result above upper detection limit.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
- C Pesticide result confirmed by GC-MS.
- D Analyte determined in diluted sample.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- J Estimated
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- P > 25% difference in detected pesticide or Aroclor concentrations between 2 columns.
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

DATA QUALIFIERS:

- F Low flow sampling method used.
- L Less than 3 bore volumes purged prior to sampling.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- N Presumptive evidence that analyte is present. The analyte is "tentatively identified".
- U Parameter analyzed for but was not detected.
- J Estimated value.
- Q Qualitative result due to sampling technique
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

Appendix B

Surface Water Data

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SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Alkalinity, Total (As CaCO ₃)	mg/L	Lower Gunnison	03/20/2006	0001	126		#	-
	mg/L	Lower Gunnison	02/14/2007	0001	124		#	-
	mg/L	Lower Gunnison	02/27/2008	0001	115		#	-
	mg/L	North Pond	03/20/2006	0001	332		#	-
	mg/L	North Pond	02/14/2007	0001	197		#	-
	mg/L	North Pond	02/26/2008	N001	49		#	-
	mg/L	South Pond	03/21/2006	0001	157		#	-
	mg/L	South Pond	02/13/2007	0001	162		#	-
	mg/L	South Pond	02/26/2008	N001	122		#	-
	mg/L	Upper Gunnison	03/21/2006	0001	124		#	-
	mg/L	Upper Gunnison	02/13/2007	0001	129		#	-
	mg/L	Upper Gunnison	02/26/2008	0001	119		#	-
	mg/L	Upper Mid Gunnison	03/21/2006	0001	137		#	-
	mg/L	Upper Mid Gunnison	02/14/2007	0001	126		#	-
	mg/L	Upper Mid Gunnison	02/26/2008	0001	113		#	-
	mg/L	Wetland Area	03/20/2006	0001	297		#	-
	mg/L	Wetland Area	02/14/2007	0001	685		#	-
	mg/L	Wetland Area	02/26/2008	N001	626		#	-
Manganese	mg/L	Lower Gunnison	03/20/2006	0002	0.100		#	5.4E-05
	mg/L	Lower Gunnison	02/05/2009	N002	0.037		#	9.7E-05
Molybdenum	mg/L	Lower Gunnison	03/20/2006	0001	0.0026		#	9.3E-05
	mg/L	Lower Gunnison	03/20/2006	0002	0.0028		#	9.3E-05
	mg/L	Lower Gunnison	02/14/2007	0001	0.0034		#	7.7E-05
	mg/L	Lower Gunnison	02/27/2008	0001	0.002	J	#	0.00011
	mg/L	Lower Gunnison	02/05/2009	N001	0.0024		#	5.2E-05
	mg/L	Lower Gunnison	02/05/2009	N002	0.0023		#	5.2E-05
	mg/L	Lower Gunnison	02/19/2010	N001	0.0028		#	4.4E-05
	mg/L	North Pond	03/20/2006	0001	0.0083		#	9.3E-05
	mg/L	North Pond	02/14/2007	0001	0.0083		#	7.7E-05
	mg/L	North Pond	02/26/2008	N001	0.0017	J	#	0.00011
	mg/L	North Pond	02/05/2009	N001	0.0022		#	5.2E-05
	mg/L	North Pond	02/19/2010	0001	0.0055		#	8.8E-05
	mg/L	South Pond	03/21/2006	0001	0.088		#	0.00093
	mg/L	South Pond	02/13/2007	0001	0.039		#	0.00038
	mg/L	South Pond	02/26/2008	N001	0.053		#	0.00056

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Molybdenum	mg/L	South Pond	02/05/2009	N001	0.051		# 0.00026	-
	mg/L	South Pond	02/18/2010	0001	0.014		# 4.4E-05	-
	mg/L	Upper Gunnison	03/21/2006	0001	0.0022		# 9.3E-05	-
	mg/L	Upper Gunnison	02/13/2007	0001	0.0024		# 7.7E-05	-
	mg/L	Upper Gunnison	02/26/2008	0001	0.0019	J	# 0.00011	-
	mg/L	Upper Gunnison	02/05/2009	N001	0.0023		# 5.2E-05	-
	mg/L	Upper Gunnison	02/18/2010	N001	0.0026		# 4.4E-05	-
	mg/L	Upper Mid Gunnison	03/21/2006	0001	0.0022		# 9.3E-05	-
	mg/L	Upper Mid Gunnison	02/14/2007	0001	0.0026		# 7.7E-05	-
	mg/L	Upper Mid Gunnison	02/26/2008	0001	0.0019	J	# 0.00011	-
	mg/L	Upper Mid Gunnison	02/05/2009	N001	0.0022		# 5.2E-05	-
	mg/L	Upper Mid Gunnison	02/18/2010	N001	0.0025		# 4.4E-05	-
	mg/L	Wetland Area	03/20/2006	0001	0.370		# 0.0046	-
	mg/L	Wetland Area	02/14/2007	0001	0.0038		# 7.7E-05	-
	mg/L	Wetland Area	02/26/2008	N001	0.120		# 0.0022	-
	mg/L	Wetland Area	02/05/2009	N001	0.066		# 0.00052	-
	mg/L	Wetland Area	02/19/2010	N001	0.033		# 0.00044	-
Oxidation Reduction Potential	mV	Lower Gunnison	03/20/2006	N001	88.6		# -	-
	mV	Lower Gunnison	02/14/2007	N001	119.1		# -	-
	mV	Lower Gunnison	02/27/2008	N001	23		# -	-
	mV	Lower Gunnison	02/05/2009	N001	198.2		# -	-
	mV	Lower Gunnison	02/19/2010	N001	-17.9		# -	-
	mV	North Pond	03/20/2006	N001	-155.9		# -	-
	mV	North Pond	02/14/2007	N001	-34.0		# -	-
	mV	North Pond	02/26/2008	N001	165		# -	-
	mV	North Pond	02/05/2009	N001	-78.2		# -	-
	mV	North Pond	02/19/2010	N001	89.2		# -	-
	mV	South Pond	03/21/2006	N001	29.7		# -	-
	mV	South Pond	02/13/2007	N001	-176		# -	-
	mV	South Pond	02/26/2008	N001	-76		# -	-
	mV	South Pond	02/05/2009	N001	123.9		# -	-
	mV	South Pond	02/18/2010	N001	-98.1		# -	-
	mV	Upper Gunnison	03/21/2006	N001	4.8		# -	-
	mV	Upper Gunnison	02/13/2007	N001	-22.0		# -	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Oxidation Reduction Potential	mV	Upper Gunnison	02/26/2008	N001	-51		#	-
	mV	Upper Gunnison	02/05/2009	N001	101.3		#	-
	mV	Upper Gunnison	02/18/2010	N001	16.9		#	-
	mV	Upper Mid Gunnison	03/21/2006	N001	-18		#	-
	mV	Upper Mid Gunnison	02/14/2007	N001	3.7		#	-
	mV	Upper Mid Gunnison	02/26/2008	N001	23		#	-
	mV	Upper Mid Gunnison	02/05/2009	N001	29.8		#	-
	mV	Upper Mid Gunnison	02/18/2010	N001	57.4		#	-
	mV	Wetland Area	03/20/2006	N001	-127.1		#	-
	mV	Wetland Area	02/14/2007	N001	-221		#	-
	mV	Wetland Area	02/26/2008	N001	39		#	-
	mV	Wetland Area	02/05/2009	N001	-8.5		#	-
	mV	Wetland Area	02/19/2010	N001	-53.7		#	-
pH	s.u.	Lower Gunnison	03/20/2006	N001	8.47		#	-
	s.u.	Lower Gunnison	02/14/2007	N001	8.05		#	-
	s.u.	Lower Gunnison	02/27/2008	N001	7.93		#	-
	s.u.	Lower Gunnison	02/05/2009	N001	8.17		#	-
	s.u.	Lower Gunnison	02/19/2010	N001	8.19		#	-
	s.u.	North Pond	03/20/2006	N001	7.91		#	-
	s.u.	North Pond	02/14/2007	N001	7.81		#	-
	s.u.	North Pond	02/26/2008	N001	7.31		#	-
	s.u.	North Pond	02/05/2009	N001	7.45		#	-
	s.u.	North Pond	02/19/2010	N001	7.41		#	-
	s.u.	South Pond	03/21/2006	N001	8.20		#	-
	s.u.	South Pond	02/13/2007	N001	7.39		#	-
	s.u.	South Pond	02/26/2008	N001	7.36		#	-
	s.u.	South Pond	02/05/2009	N001	8.16		#	-
	s.u.	South Pond	02/18/2010	N001	6.59		#	-
	s.u.	Upper Gunnison	03/21/2006	N001	8.55		#	-
	s.u.	Upper Gunnison	02/13/2007	N001	8.31		#	-
	s.u.	Upper Gunnison	02/26/2008	N001	7.85		#	-
	s.u.	Upper Gunnison	02/05/2009	N001	8.38		#	-
	s.u.	Upper Gunnison	02/18/2010	N001	8.48		#	-
	s.u.	Upper Mid Gunnison	03/21/2006	N001	8.54		#	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
pH	s.u.	Upper Mid Gunnison	02/14/2007	N001	8.26		#	-
	s.u.	Upper Mid Gunnison	02/26/2008	N001	8.09		#	-
	s.u.	Upper Mid Gunnison	02/05/2009	N001	8.28		#	-
	s.u.	Upper Mid Gunnison	02/18/2010	N001	8.60		#	-
	s.u.	Wetland Area	03/20/2006	N001	8.23		#	-
	s.u.	Wetland Area	02/14/2007	N001	7.54		#	-
	s.u.	Wetland Area	02/26/2008	N001	7.07		#	-
	s.u.	Wetland Area	02/05/2009	N001	7.95		#	-
	s.u.	Wetland Area	02/19/2010	N001	7.70		#	-
Selenium	mg/L	Lower Gunnison	03/20/2006	0001	0.0047		#	3.3E-05
	mg/L	Lower Gunnison	03/20/2006	0002	0.0046		#	3.3E-05
	mg/L	Lower Gunnison	02/14/2007	0001	0.0069		#	4.9E-05
	mg/L	Lower Gunnison	02/27/2008	0001	0.0029		#	1.9E-05
	mg/L	Lower Gunnison	02/05/2009	N001	0.003		#	1.7E-05
	mg/L	Lower Gunnison	02/05/2009	N002	0.0031		#	1.7E-05
	mg/L	Lower Gunnison	02/19/2010	N001	0.003	J	#	2.3E-05
	mg/L	North Pond	03/20/2006	0001	0.0006		#	6.6E-05
	mg/L	North Pond	02/14/2007	0001	0.0029		#	9.7E-05
	mg/L	North Pond	02/26/2008	N001	0.0006		#	1.9E-05
	mg/L	North Pond	02/05/2009	N001	0.0003		#	1.7E-05
	mg/L	North Pond	02/19/2010	0001	0.0008		#	2.3E-05
	mg/L	South Pond	03/21/2006	0001	0.0004		#	6.6E-05
	mg/L	South Pond	02/13/2007	0001	0.0005		#	9.7E-05
	mg/L	South Pond	02/26/2008	N001	0.0003	U	#	1.9E-05
	mg/L	South Pond	02/05/2009	N001	0.0003		#	1.7E-05
	mg/L	South Pond	02/18/2010	0001	0.0001	U	#	2.3E-05
	mg/L	Upper Gunnison	03/21/2006	0001	0.0044		#	3.3E-05
	mg/L	Upper Gunnison	02/13/2007	0001	0.0063		#	4.9E-05
	mg/L	Upper Gunnison	02/26/2008	0001	0.0028		#	1.9E-05
	mg/L	Upper Gunnison	02/05/2009	N001	0.0033		#	1.7E-05
	mg/L	Upper Gunnison	02/18/2010	N001	0.003	E J	#	2.3E-05
	mg/L	Upper Mid Gunnison	03/21/2006	0001	0.0043		#	3.3E-05
	mg/L	Upper Mid Gunnison	02/14/2007	0001	0.0068		#	4.9E-05
	mg/L	Upper Mid Gunnison	02/26/2008	0001	0.0029		#	1.9E-05

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Selenium	mg/L	Upper Mid Gunnison	02/05/2009	N001	0.0031		# 1.7E-05	-
	mg/L	Upper Mid Gunnison	02/18/2010	N001	0.003	J	# 2.3E-05	-
	mg/L	Wetland Area	03/20/2006	0001	0.0008		# 0.00017	-
	mg/L	Wetland Area	02/14/2007	0001	0.0063		# 0.00024	-
	mg/L	Wetland Area	02/26/2008	N001	0.0013		# 1.9E-05	-
	mg/L	Wetland Area	02/05/2009	N001	0.0002		# 1.7E-05	-
	mg/L	Wetland Area	02/19/2010	N001	0.0006		# 2.3E-05	-
Specific Conductance	umhos/cm	Lower Gunnison	03/20/2006	N001	799		# -	-
	umhos/cm	Lower Gunnison	02/14/2007	N001	940		# -	-
	umhos/cm	Lower Gunnison	02/27/2008	N001	693		# -	-
	umhos/cm	Lower Gunnison	02/05/2009	N001	737		# -	-
	umhos/cm	North Pond	03/20/2006	N001	5732		# -	-
	umhos/cm	North Pond	02/14/2007	N001	3683		# -	-
	umhos/cm	North Pond	02/26/2008	N001	801		# -	-
	umhos/cm	North Pond	02/05/2009	N001	2995		# -	-
	umhos/cm	North Pond	02/19/2010	N001	2765		# -	-
	umhos/cm	South Pond	03/21/2006	N001	2588		# -	-
	umhos/cm	South Pond	02/13/2007	N001	2357		# -	-
	umhos/cm	South Pond	02/26/2008	N001	2306		# -	-
	umhos/cm	South Pond	02/05/2009	N001	2762		# -	-
	umhos/cm	South Pond	02/18/2010	N001	1561		# -	-
	umhos/cm	Upper Gunnison	03/21/2006	N001	782		# -	-
	umhos/cm	Upper Gunnison	02/13/2007	N001	824		# -	-
	umhos/cm	Upper Gunnison	02/26/2008	N001	681		# -	-
	umhos/cm	Upper Gunnison	02/05/2009	N001	804		# -	-
	umhos/cm	Upper Gunnison	02/18/2010	N001	747		# -	-
	umhos/cm	Upper Mid Gunnison	03/21/2006	N001	798		# -	-
	umhos/cm	Upper Mid Gunnison	02/14/2007	N001	911		# -	-
	umhos/cm	Upper Mid Gunnison	02/26/2008	N001	695		# -	-
	umhos/cm	Upper Mid Gunnison	02/05/2009	N001	710		# -	-
	umhos/cm	Upper Mid Gunnison	02/18/2010	N001	742		# -	-
	umhos/cm	Wetland Area	03/20/2006	N001	26450		# -	-
	umhos/cm	Wetland Area	02/14/2007	N001	19155		# -	-
	umhos/cm	Wetland Area	02/26/2008	N001	20236		# -	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Specific Conductance	umhos/cm	Wetland Area	02/05/2009	N001	4208		#	-
	umhos/cm	Wetland Area	02/19/2010	N001	7921		#	-
Sulfate	mg/L	Lower Gunnison	03/20/2006	0001	280		#	5
	mg/L	Lower Gunnison	03/20/2006	0002	280		#	5
	mg/L	Lower Gunnison	02/14/2007	0001	330		#	5
	mg/L	Lower Gunnison	02/27/2008	0001	220		#	2.5
	mg/L	Lower Gunnison	02/05/2009	N001	240		#	5
	mg/L	Lower Gunnison	02/05/2009	N002	240		#	5
	mg/L	Lower Gunnison	02/19/2010	N001	270		#	5
	mg/L	North Pond	03/20/2006	0001	2800		#	50
	mg/L	North Pond	02/14/2007	0001	1600		#	25
	mg/L	North Pond	02/26/2008	N001	260		#	2.5
	mg/L	North Pond	02/05/2009	N001	1300		#	25
	mg/L	North Pond	02/19/2010	0001	1200		#	25
	mg/L	South Pond	03/21/2006	0001	1200		#	25
	mg/L	South Pond	02/13/2007	0001	1100		#	10
	mg/L	South Pond	02/26/2008	N001	1000		#	10
	mg/L	South Pond	02/05/2009	N001	1300		#	25
	mg/L	South Pond	02/18/2010	0001	650		#	10
	mg/L	Upper Gunnison	03/21/2006	0001	270		#	5
	mg/L	Upper Gunnison	02/13/2007	0001	300		#	5
	mg/L	Upper Gunnison	02/26/2008	0001	210		#	2.5
	mg/L	Upper Gunnison	02/05/2009	N001	250		#	5
	mg/L	Upper Gunnison	02/18/2010	N001	250		#	5
	mg/L	Upper Mid Gunnison	03/21/2006	0001	270		#	5
	mg/L	Upper Mid Gunnison	02/14/2007	0001	320		#	5
	mg/L	Upper Mid Gunnison	02/26/2008	0001	210		#	2.5
	mg/L	Upper Mid Gunnison	02/05/2009	N001	240		#	5
	mg/L	Upper Mid Gunnison	02/18/2010	N001	240		#	5
	mg/L	Wetland Area	03/20/2006	0001	17000		#	250
	mg/L	Wetland Area	02/14/2007	0001	11000		#	100
	mg/L	Wetland Area	02/26/2008	N001	12000		#	100
	mg/L	Wetland Area	02/05/2009	N001	2000		#	25
	mg/L	Wetland Area	02/19/2010	N001	4000		#	50
Temperature	C	Lower Gunnison	03/20/2006	N001	7.93		#	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Temperature	C	Lower Gunnison	02/14/2007	N001	4.37		#	-
	C	Lower Gunnison	02/27/2008	N001	7.02		#	-
	C	Lower Gunnison	02/05/2009	N001	3.72		#	-
	C	Lower Gunnison	02/19/2010	N001	7.61		#	-
	C	North Pond	03/20/2006	N001	11.57		#	-
	C	North Pond	02/14/2007	N001	4.30		#	-
	C	North Pond	02/26/2008	N001	1.44		#	-
	C	North Pond	02/05/2009	N001	2.87		#	-
	C	North Pond	02/19/2010	N001	0.97		#	-
	C	South Pond	03/21/2006	N001	9.39		#	-
	C	South Pond	02/13/2007	N001	7.09		#	-
	C	South Pond	02/26/2008	N001	7.70		#	-
	C	South Pond	02/05/2009	N001	4.27		#	-
	C	South Pond	02/18/2010	N001	3.20		#	-
	C	Upper Gunnison	03/21/2006	N001	7.61		#	-
	C	Upper Gunnison	02/13/2007	N001	9.87		#	-
	C	Upper Gunnison	02/26/2008	N001	5.25		#	-
	C	Upper Gunnison	02/05/2009	N001	4.98		#	-
	C	Upper Gunnison	02/18/2010	N001	4.57		#	-
	C	Upper Mid Gunnison	03/21/2006	N001	7.19		#	-
	C	Upper Mid Gunnison	02/14/2007	N001	4.90		#	-
	C	Upper Mid Gunnison	02/26/2008	N001	7.97		#	-
	C	Upper Mid Gunnison	02/05/2009	N001	4.20		#	-
	C	Upper Mid Gunnison	02/18/2010	N001	8.20		#	-
	C	Wetland Area	03/20/2006	N001	13.02		#	-
	C	Wetland Area	02/14/2007	N001	10.27		#	-
	C	Wetland Area	02/26/2008	N001	13.94		#	-
	C	Wetland Area	02/05/2009	N001	3.95		#	-
	C	Wetland Area	02/19/2010	N001	5.68		#	-
Turbidity	NTU	Lower Gunnison	02/14/2007	N001	64.6		#	-
	NTU	Lower Gunnison	02/27/2008	N001	105		#	-
	NTU	Lower Gunnison	02/05/2009	N001	5.92		#	-
	NTU	Lower Gunnison	02/19/2010	N001	4.88		#	-
	NTU	North Pond	02/14/2007	N001	29.3		#	-
	NTU	North Pond	02/26/2008	N001	5.49		#	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Turbidity	NTU	North Pond	02/05/2009	N001	6.23		#	-
	NTU	North Pond	02/19/2010	N001	68.5		#	-
	NTU	South Pond	02/13/2007	N001	3.39		#	-
	NTU	South Pond	02/26/2008	N001	7.11		#	-
	NTU	South Pond	02/05/2009	N001	7.03		#	-
	NTU	South Pond	02/18/2010	N001	24.7		#	-
	NTU	Upper Gunnison	02/13/2007	N001	117		#	-
	NTU	Upper Gunnison	02/26/2008	N001	205		#	-
	NTU	Upper Gunnison	02/05/2009	N001	6.84		#	-
	NTU	Upper Gunnison	02/18/2010	N001	5.31		#	-
	NTU	Upper Mid Gunnison	02/14/2007	N001	60.1		#	-
	NTU	Upper Mid Gunnison	02/26/2008	N001	184		#	-
	NTU	Upper Mid Gunnison	02/05/2009	N001	5.37		#	-
	NTU	Upper Mid Gunnison	02/18/2010	N001	4.92		#	-
	NTU	Wetland Area	02/14/2007	N001	39.8		#	-
	NTU	Wetland Area	02/26/2008	N001	8.64		#	-
	NTU	Wetland Area	02/05/2009	N001	1.67		#	-
	NTU	Wetland Area	02/19/2010	N001	7.29		#	-
Uranium	mg/L	Lower Gunnison	03/20/2006	0001	0.0063		#	2.4E-06
	mg/L	Lower Gunnison	03/20/2006	0002	0.0065		#	2.4E-06
	mg/L	Lower Gunnison	02/14/2007	0001	0.0075		#	9E-06
	mg/L	Lower Gunnison	02/27/2008	0001	0.0047		#	5.9E-06
	mg/L	Lower Gunnison	02/05/2009	N001	0.0061		#	3.1E-06
	mg/L	Lower Gunnison	02/05/2009	N002	0.006		#	3.1E-06
	mg/L	Lower Gunnison	02/19/2010	N001	0.0086		#	1.8E-06
	mg/L	North Pond	03/20/2006	0001	0.230		#	2.4E-05
	mg/L	North Pond	02/14/2007	0001	0.140		#	4.5E-05
	mg/L	North Pond	02/26/2008	N001	0.027		#	5.9E-06
	mg/L	North Pond	02/05/2009	N001	0.075		#	6.2E-06
	mg/L	North Pond	02/19/2010	0001	0.130		#	3.5E-06
	mg/L	South Pond	03/21/2006	0001	0.370		#	2.4E-05
	mg/L	South Pond	02/13/2007	0001	0.160		#	4.5E-05
	mg/L	South Pond	02/26/2008	N001	0.220		#	0.00003
	mg/L	South Pond	02/05/2009	N001	0.330		#	1.5E-05
	mg/L	South Pond	02/18/2010	0001	0.018		#	1.8E-06
	mg/L	Upper Gunnison	03/21/2006	0001	0.0059		#	2.4E-06

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Uranium	mg/L	Upper Gunnison	02/13/2007	0001	0.0062		# 9E-06	-
	mg/L	Upper Gunnison	02/26/2008	0001	0.0046		# 5.9E-06	-
	mg/L	Upper Gunnison	02/05/2009	N001	0.006		# 3.1E-06	-
	mg/L	Upper Gunnison	02/18/2010	N001	0.0058		# 1.8E-06	-
	mg/L	Upper Mid Gunnison	03/21/2006	0001	0.0059		# 2.4E-06	-
	mg/L	Upper Mid Gunnison	02/14/2007	0001	0.0062		# 9E-06	-
	mg/L	Upper Mid Gunnison	02/26/2008	0001	0.0044		# 5.9E-06	-
	mg/L	Upper Mid Gunnison	02/05/2009	N001	0.0057		# 3.1E-06	-
	mg/L	Upper Mid Gunnison	02/18/2010	N001	0.0059		# 1.8E-06	-
	mg/L	Wetland Area	03/20/2006	0001	2.900		# 0.00012	-
	mg/L	Wetland Area	02/14/2007	0001	0.750		# 0.00009	-
	mg/L	Wetland Area	02/26/2008	N001	1.400		# 0.00012	-
	mg/L	Wetland Area	02/05/2009	N001	0.460		# 3.1E-05	-
	mg/L	Wetland Area	02/19/2010	N001	0.610		# 1.8E-05	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE GJO01, Grand Junction Site
 REPORT DATE: 5/12/2011 9:45 am

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
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RECORDS: SELECTED FROM USEE800 WHERE site_code='GJO01' AND quality_assurance = TRUE AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND DATE_SAMPLED between #1/1/2006# and #12/31/2010#

SAMPLE ID CODES: 000X = Filtered sample. N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- > Result above upper detection limit.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
- C Pesticide result confirmed by GC-MS.
- D Analyte determined in diluted sample.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- J Estimated
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- P > 25% difference in detected pesticide or Aroclor concentrations between 2 columns.
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

DATA QUALIFIERS:

- | | |
|--|--|
| F Low flow sampling method used. | G Possible grout contamination, pH > 9. |
| J Estimated value. | L Less than 3 bore volumes purged prior to sampling. |
| N Presumptive evidence that analyte is present. The analyte is "tentatively identified". | Q Qualitative result due to sampling technique |
| R Unusable result. | U Parameter analyzed for but was not detected. |
| X Location is undefined. | |

QA QUALIFIER: # = validated according to Quality Assurance guidelines.