



SOUTHERN NEVADA
WATER AUTHORITY

Water Resources Division

Delamar, Dry Lake, and Cave Valley Stipulation Agreement Hydrologic Monitoring Plan Status and Data Report

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ACRONYMS

BRT	Biological Resources Team
DDC	Delamar, Dry Lake, and Cave Valleys
DOI	U.S. Department of Interior
LVVWD	Las Vegas Valley Water District
SNWA	Southern Nevada Water Authority
TRP	Technical Review Panel
USGS	U.S. Geological Survey
UTM	Universal Transverse Mercator

ABBREVIATIONS

°C	degrees Celsius
amsl	above mean sea level
bgs	below ground surface
cm	centimeter
ft	foot
gpm	gallons per minute
in.	inch
L	liter
m	meter
mg	milligram
µg	microgram
µS	microsiemen
NTU	nephelometric turbidity unit
pCi	picocuries
pmc	percent modern carbon
TU	tritium unit



1.0 INTRODUCTION

1.1 Purpose

The purpose of this document is to provide the status of activities associated with Exhibit A of the Delamar, Dry Lake, and Cave Valley (DDC) Stipulation Agreement titled “Hydrologic and Biological Monitoring, Management and Mitigation Plan for Development of Groundwater in the Delamar, Dry Lake, and Cave Valley Hydrographic Basins Pursuant to Application Nos. 53987 through 53992 by the Southern Nevada Water Authority” (DDC3M Plan). This document also presents historical monitoring data collected from seven existing Southern Nevada Water Authority (SNWA) monitor wells and four U.S. Geological Survey (USGS) wells that comprise the current SNWA groundwater monitoring network. This network will be reviewed by the Technical Review Panel (TRP) for potential inclusion into the monitor well network supporting the DDC3M Plan. The TRP has not yet selected final monitoring locations for the monitoring network required under the DDC3M Plan. Therefore, the data presented in this report are being submitted as a courtesy and the format of future data reports may vary.

1.2 Background

In 1989, the Las Vegas Valley Water District (LVVWD) filed six applications (53987 through 53992) for the appropriation of groundwater resources in DDC. By agreement with the LVVWD, SNWA has assumed full interest in these applications. A water-rights hearing was held in February, 2008 in regard to these applications.

On January 7, 2008, prior to the hearing, a Stipulation for Withdrawal of Protests (Stipulation) was established between SNWA and U.S. Department of Interior (DOI) on behalf of the Bureau of Indian Affairs, the Bureau of Land Management, the National Park Service, and the U.S. Fish and Wildlife Service (collectively known as the DOI Bureaus). This Stipulation requires that SNWA develop comprehensive hydrologic (DDC3M Plan) and biologic monitoring plans; these are presented in Exhibits A and B of the Stipulation, respectively. As part of the Stipulation, an Executive Committee was established to oversee the implementation of the Stipulation. A TRP and Biological Resources Team (BRT), composed of technical representatives of parties to the agreement, were also established to develop and oversee implementation of monitoring and mitigation plans, review program data, and modify the monitoring plans, if necessary.



1.3 Report Scope

[Section 2.0](#) of this report presents the current monitoring network and historic water-level and water-chemistry data collected to date. A detailed description of the drilling program and hydrogeologic data collected from each of the seven SNWA monitor well locations are presented in a geologic analysis report for each location. [Section 3.0](#) presents the current status of the DDC3M Plan requirements.



2.0 PREVIOUS ACTIVITIES AND HISTORIC HYDROLOGIC DATA

2.1 Summary of Monitor and Test Wells

In 2005, SNWA constructed four 6-in. and three 12-in. diameter monitor wells in Delamar, Dry Lake, Cave, and Pahranaगत valleys. Two additional SNWA wells, one 6-in. diameter monitoring well (CAV6002M2) and one 20-in. diameter test well (CAV6002X), were installed in southern Cave Valley on October 13 and 28, 2007, respectively. Four USGS-MX monitor wells in DDC, completed in 1980 as part of the MX missile program, have also been monitored regularly by SNWA.

The locations of these wells are shown on [Figure 1](#). Well construction and completion data are presented for each well in [Table 1](#). A professional survey of location coordinates, ground surface elevation, and top of casing measuring-point elevation for each well is planned for 2008.

2.2 SNWA Data Collection

During the 2007 calendar year, SNWA collected water-level data at 11 existing well locations in Cave, Delamar, Dry Lake, and Pahranaगत valleys. The locations consist of the seven monitor wells installed by SNWA in 2005 and the four USGS-MX monitor wells. Continuous water-level measurements were recorded at each of the seven SNWA locations. SNWA also collected discrete water-level measurements at the four USGS-MX locations. USGS collected continuous data at two of the four USGS-MX wells. Wells included in the network are completed in carbonate and basin-fill aquifers (see [Figure 1](#)). SNWA Cave Valley wells, CAV6002M2 and CAV6002X, are associated with monitor well 180W902M. However, data from these locations are not presented in this report because the data have not been finalized.

Continuous recording instrumentation was installed in the seven SNWA monitor wells between April and June, 2007. A Design Analysis H-312 pressure transducer and a Design Analysis H-500XL data logger were installed at each well. Site visits were conducted approximately every six weeks to obtain discrete water-level measurements and download continuous pressure transducer data for processing and analysis. The continuous recording equipment performed without loss of data during the period the equipment was deployed with the following exceptions:

- 180W902M: In October 2007, the pressure transducer and data logger were removed in preparation for an aquifer test at this well location and CAV6002X. The transducer was re-installed in January 2008 upon completion of aquifer testing.
- 182W906M: The pressure transducer malfunctioned on October 1, 2007. The transducer was removed from the well and sent to the manufacturer for replacement. The high temperature in

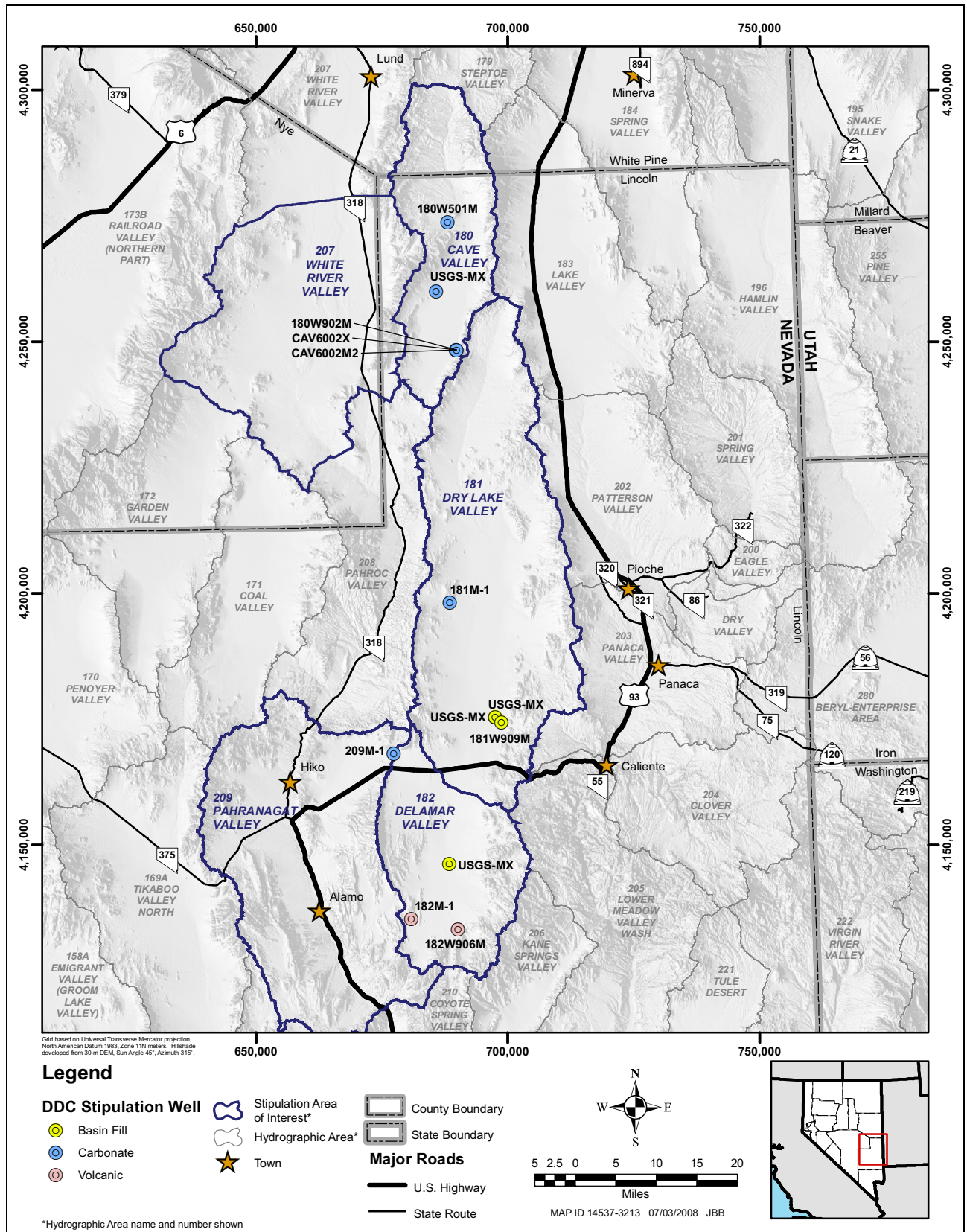


Figure 1
Existing DDC Monitor and Test Well Locations



**Table 1
Existing DDC Monitor and Test Well Characteristics**

Site Identification Number	Site Local Number	UTM Northing (m)	UTM Easting (m)	Surface Elevation (ft-amsl)	Hydrogeologic Unit Designation	Well Completion Date	Well Depth ^a (ft-bgs)	Well Casing Diameter (in.)	Perforated Interval ^b (ft-bgs)	Effective Open Interval ^c (ft-bgs)
HA 180 – Cave Valley										
180W902M	180 N06 E64 19AC 1	4,248,363	689,805	5,987	Carbonate	10/18/2005	903	12	195 to 882	50 to 905
CAV6002M2	180 N06 E64 19AC 2	4,248,360	689,782	5,987	Carbonate	10/13/2007	884	6	158 to 884	50 to 893
CAV6002X	180 N06 E64 19AC 3	4,248,310	689,822	5,987	Carbonate	10/28/2007	902	20	219 to 900	50 to 917
382807114521001	180 N07 E63 14BADD 1	4,259,954	685,797	6,012	Carbonate	9/30/1980	460	10	210 to 250 375 to 435	40 to 460
180W501M	180 N09 E64 31BC 1	4,273,716	688,048	6,457	Carbonate	9/25/2005	1,212	6	788 to 1,192	54 to 1,215
HA 181 – Dry Lake Valley										
181M-1	181 S01 E63 25DD 1	4,198,181	688,537	4,966	Carbonate	8/30/2005	1,472	6	765 to 1,451	58 to 1,500
374215114453101	181 S03 E64 12AC 1	4,175,351	697,515	4,643	Basin Fill	4/20/1980	1,000	10	Multiple between 600 to 970	40 to 1,000
374215114453102	181 S03 E64 12AC 2	4,175,351	697,515	4,643	Basin Fill	1/26/1980	1,300	2	1,270 to 1,290	40 to 1,300
181W909M	181 S03 E65 07CC 1	4,174,479	698,688	4,804	Basin Fill	10/7/2005	1,260	12	637 to 1,240	183 to 1,285
HA 182 – Delamar Valley										
372639114520901	182 S06 E63 12AD 1	4,146,273	688,422	4,713	Basin Fill	5/10/1980	1,195	10	920 to 980 1,040 to 1,180	40 to 1,215
182M-1	182 S07 E63 18AA 1	4,135,306	680,874	4,582	Volcanic	7/10/2005	1,321	12	1,000 to 1,300	58 to 1,345
182W906M	182 S07 E64 19CD 1	4,133,299	690,078	4,802	Volcanic	9/3/2005	1,702	6	1,405 to 1,705	59 to 1,735
HA 209 – Pahranaagat Valley										
209M-1	209 S03 E62 35 AD 1	4,168,166	677,377	5,123	Carbonate	8/4/2005	1,615	6	1,273 to 1,595	52 to 1,616

Note: Surface elevations and coordinates are approximate. A professional survey of all wells is planned for 2008.

^aWell Depth = Depth to base of casing, not total depth of borehole.

^bPerforated interval = Screened or perforated interval.

^cEffective open interval = Gravel pack or open borehole interval.



this well was found to be the cause of the malfunction. A new high temperature pressure transducer is on order and is planned to be installed in 2008.

- 182M-1: The battery unit cable connection did not function between October 30 and December 19, 2007. The problem was identified and equipment repaired during a routine field inspection conducted on December 19, 2007.

Discrete measurements of water levels were compared to pressure transducer data to ensure proper function and calibration of equipment. The discrete measurements collected by SNWA for all current DDC network wells are presented in [Appendix A](#). The appendix also includes tables presenting the daily mean continuous water-level data, combined discrete and continuous data hydrographs for the seven SNWA monitor wells, and hydrographs of available discrete measurements performed by USGS and SNWA at the USGS-MX wells. The first discrete measurements for the SNWA wells were collected after well completion and may reflect influences of drilling and well construction activities, and therefore may not be representative of the actual static hydraulic head of the aquifer at that time.

SNWA continuous data were corrected for temperature and density. Water-level data collected by USGS at the MX wells are available at <http://waterdata.usgs.gov/nv/nwis/current/?type=gw>.

Water-chemistry samples were collected for laboratory analysis from all SNWA monitor and test wells, with the exception of CAV6002M2. The samples from the seven monitor wells were collected following well development. Future sampling events will verify the quality of the initial samples (i.e., whether sufficient well purging had been performed during well development to obtain samples representative of the natural groundwater). Samples were also collected for laboratory analysis at Test Well CAV6002X during a 72-hour constant-rate aquifer test using a discharge rate of 1,200 gpm. The constant-rate test was performed after extended development. The sample results from the test well are therefore expected to be more representative than those of the monitor wells because of the large volume of groundwater pumped during development and hydraulic testing. Water-chemistry results are presented in [Appendix B](#).



3.0 STATUS OF DDC3M PLAN REQUIREMENTS

To date, field activities associated with the DDC3M Plan have been limited because the TRP has not yet selected the final monitoring network. A comprehensive spring and groundwater monitoring network, described in the DDC3M Plan, will be developed in conjunction with the TRP. The following are the DDC3M Plan-related activities anticipated to be performed in 2008:

- Conduct an initial meeting of the TRP and finalize monitoring network locations.
- Identify 15 existing wells to be monitored by SNWA, including nine existing wells for quarterly water-level data collection and six existing wells to record continuous water levels. The six wells identified for continuous measurement will be equipped with data loggers and pressure transducer instrumentation as required. Appropriate site access will be requested for wells included in the network.
- Identify the locations of four new monitor wells to be installed in the DDC hydrographic basins or adjacent hydrographic basins for the purpose of long-term monitoring. Site access will be requested through the Bureau of Land Management or the landowner of record.
- Identify eight required spring locations in DDC valleys to be included in the monitoring network. These would be in addition to the specifically named spring locations identified in the DDC3M Plan.
- SNWA will continue to collect continuous and discrete groundwater data from the existing monitor and exploratory well network in 2008. Final well locations to be included in the monitoring network will be determined in conjunction with the TRP.
- Establish an SNWA Web Exchange data site to provide TRP with an update on activities and repository for data collected as part of the DDC3M Plan.

Appendix A

Discrete and Continuous Water-Level Measurement Data and Hydrographs from the Current SNWA DDC Groundwater Monitoring Network



Table A-1
DDC Stipulation Water-Level Data
 (Page 1 of 3)

Site Identification Number	Site Local Number	Well Depth (ft-bgs)	Surface Elevation (ft-amsl)	Water-Level Data			
				Date of Measurement	Depth to Water (ft-bgs)	Well Status	Measurement Method
HA 180 -- Cave Valley							
180W902M	180 N06 E64 19CA 1	903	5,987	12/22/2005	137.90 ^a		T
				10/23/2006	136.94		T
				12/5/2006	137.11		T
				1/23/2007	137.41		T
				2/26/2007	137.25		T
				4/3/2007	137.67		T
				5/15/2007	137.76		T
				6/28/2007	137.89		T
				7/26/2007	138.03		T
				9/7/2007	138.05		T
				9/26/2007	138.11		T
				10/17/2007	138.18		T
				10/23/2007	138.29		T
				11/8/2007	138.32		T
11/16/2007	138.43		T				
12/18/2007	139.45		T				
382807114521001	180 N07 E63 14BADD 1	460	6,012	7/14/1997	221.90		T
				7/12/1998	221.04		T
				7/23/2000	220.29		T
				7/25/2005	219.48		T
				11/21/2007	218.34		T
180W501M	180 N09 E64 31BC 1	1,212	6,457	12/22/2005	1,049.90 ^a		T
				10/23/2006	1,049.65 ^a		T
				12/5/2006	1,049.88 ^a		T
				1/23/2007	1,050.11 ^a		T
				2/26/2007	1,050.01		T
				4/3/2007	1,050.39		T
				5/15/2007	1,050.65		T
				6/28/2007	1,050.81		T
				7/26/2007	1,050.98		T
				9/7/2007	1,051.04		T
				10/23/2007	1,051.38		T
12/18/2007	1,051.63		T				
HA 181 -- Dry Lake Valley							
181M-1	181 S07 E63 25CD 1	1,472	4,966	1/9/2006	677.90 ^a		T
				10/24/2006	675.19 ^a		T
				12/8/2006	675.30 ^a		T
				1/22/2007	675.59 ^a		T
				2/26/2007	675.31		T
				4/3/2007	675.54		T
				5/15/2007	675.44		T
				7/26/2007	675.49		T
				9/4/2007	675.13		T
				10/23/2007	675.49		T



Table A-1
DDC Stipulation Water-Level Data
 (Page 2 of 3)

Site Identification Number	Site Local Number	Well Depth (ft-bgs)	Surface Elevation (ft-amsl)	Water-Level Data			
				Date of Measurement	Depth to Water (ft-bgs)	Well Status	Measurement Method
181M-1(Continued)	181 S07 E63 25CD 1	1,472	4,966	12/18/2007	675.19		T
374215114453101	181 S03 E64 12AC 1	1,000	4,643	7/14/1996	394.17		S
				7/11/1999	394.30		T
				8/4/2003	394.15		T
				7/26/2004	394.05		T
				7/25/2005	393.67		T
				2/26/2007	393.73		T
				4/3/2007	393.82		T
				5/15/2007	393.78		T
				6/20/2007	393.85		V
				7/30/2007	393.81		T
				12/18/2007	393.69		T
374215114453102	181 S03 E64 12AC 2	1,300	4,643	10/27/2003	382.01		T
				2/26/2007	381.65		T
				4/3/2007	381.56		T
				5/15/2007	381.61		T
				6/20/2007	381.71		T
				7/30/2007	381.71		T
				12/18/2007	381.63		T
181W909M	181 S03 E64 07CC 1	1,260	4,804	1/9/2006	494.90 ^a		T
				10/24/2006	497.04 ^a		T
				12/8/2006	497.33 ^a		T
				1/22/2007	497.40 ^a		T
				2/26/2007	497.10		T
				4/3/2007	497.27		T
				5/15/2007	497.08		T
				6/20/2007	497.02		T
				6/27/2007	497.11		T
				7/30/2007	497.10		T
				9/4/2007	497.00		T
10/23/2007	497.40		T				
12/18/2007	496.89		T				
HA 182 -- Delamar Valley							
372639114520901	182 S06 E63 12AD 1	1,195	4,713	7/14/1996	863.75		T
				7/11/1999	863.31		--
				5/14/2001	863.25		T
				7/25/2005	862.57		T
				4/2/2007	863.01		T
				5/14/2007	863.25		T
				6/20/2007	862.96		V
				7/30/2007	863.14		T
				12/19/2007	863.23		T
182M-1	182 S07 E63 18AA 1	1,321	4,582	1/9/2006	827.60 ^a		T
				10/24/2006	826.50 ^a		T
				12/8/2006	826.47 ^a		T



Table A-1
DDC Stipulation Water-Level Data
 (Page 3 of 3)

Site Identification Number	Site Local Number	Well Depth (ft-bgs)	Surface Elevation (ft-amsl)	Water-Level Data			
				Date of Measurement	Depth to Water (ft-bgs)	Well Status	Measurement Method
182M-1 (Continued)	182 S07 E63 18AA 1	1,321	4,582	1/22/2007	827.02 ^a		T
				2/26/2007	826.88		T
				4/2/2007	826.88		T
				5/14/2007	828.98 ^a		T
				6/20/2007	826.64		T
				6/28/2007	826.83		T
				7/30/2007	826.80		T
				9/4/2007	826.68		T
				10/29/2007	826.92		T
				12/19/2007	827.08		T
182W906M	182 S07 E64 19CD 1	1,702	4,802	1/9/2006	1,300.10 ^a		T
				10/24/2006	1,319.76		T
				12/11/2006	1,319.70		T
				1/22/2007	1,319.49		T
				2/26/2007	1,318.10		T
				4/2/2007	1,317.34		T
				4/25/2007	1,322.60 ^a		T
				5/14/2007	1,319.25 ^a		T
				6/20/2007	1,317.26		T
				7/30/2007	1,316.54		T
				9/4/2007	1,316.43		T
				10/31/2007	1,316.50		T
12/19/2007	1,316.44		T				
HA 209 -- Pahranaagat Valley							
209M-1	209 S03 E62 35AD 1	1,615	5,123	1/19/2006	1,200.90 ^a		T
				10/24/2006	1,199.86 ^a		T
				12/11/2006	1,200.02 ^a		T
				1/22/2007	1,200.12 ^a		T
				2/26/2007	1,199.84		T
				4/2/2007	1,199.97		T
				5/14/2007	1,200.05		T
				6/20/2007	1,200.18		T
				6/27/2007	1,200.08		T
				7/30/2007	1,200.12		T
				9/4/2007	1,199.71		T
				10/23/2007	1,200.41		T
12/17/2007	1,199.93		T				

^aMeasurement reference point not confirmed

Note: Surface elevation is approximate. A professional survey will be performed in 2008.

Well Status

- D = The site was dry
- O = Obstruction was encountered in the well
- P = Well was being pumped
- N = Nearby Pumping
- R = Well had been pumped recently
- Z = Other
- No Symbol = Static water level

Measurement Method

- S = Steel tape measurement
- T = Electric tape measurement
- V = Calibrated electric tape measurement
- = Unknown



Table A-2
Cave Valley Well 180W501M (Calendar Year 2007)
Water-Level Data, Daily Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	--	--	--	--	--	--	1,051.15	1,050.82	1,051.05	1,051.18	1,051.36	1,051.37
2	--	--	--	--	--	--	1,051.14	1,050.83	1,051.07	1,051.22	1,051.41	1,051.57
3	--	--	--	--	--	--	1,051.15	1,050.82	1,051.06	1,051.14	1,051.43	1,051.57
4	--	--	--	--	--	--	1,051.14	1,050.85	1,050.99	1,051.08	1,051.40	1,051.51
5	--	--	--	--	--	--	1,051.13	1,050.87	1,051.02	1,051.11	1,051.40	1,051.43
6	--	--	--	--	--	--	1,051.12	1,050.90	1,051.09	1,051.25	1,051.40	1,051.40
7	--	--	--	--	--	--	1,051.11	1,050.92	1,051.08	1,051.25	1,051.42	1,051.38
8	--	--	--	--	--	--	1,051.11	1,050.94	1,051.06	1,051.24	1,051.39	1,051.42
9	--	--	--	--	--	--	1,051.11	1,050.95	1,051.07	1,051.23	1,051.36	1,051.51
10	--	--	--	--	--	--	1,051.11	1,050.96	1,051.13	1,051.22	1,051.35	1,051.42
11	--	--	--	--	--	--	1,051.13	1,050.97	1,051.10	1,051.22	1,051.36	1,051.54
12	--	--	--	--	--	--	1,051.12	1,050.99	1,051.09	1,051.16	1,051.44	1,051.54
13	--	--	--	--	--	--	1,051.13	1,050.99	1,051.08	1,051.23	1,051.41	1,051.51
14	--	--	--	--	--	--	1,051.12	1,050.98	1,051.09	1,051.26	1,051.44	1,051.56
15	--	--	--	--	--	--	1,051.11	1,050.98	1,051.10	1,051.20	1,051.41	1,051.56
16	--	--	--	--	--	--	1,051.08	1,050.99	1,051.07	1,051.16	1,051.40	1,051.52
17	--	--	--	--	--	--	1,051.04	1,050.93	1,051.08	1,051.23	1,051.42	1,051.52
18	--	--	--	--	--	--	1,051.02	1,050.92	1,051.09	1,051.29	1,051.42	1,051.55
19	--	--	--	--	--	--	1,051.02	1,050.95	1,051.03	1,051.24	1,051.39	1,051.57
20	--	--	--	--	--	--	1,051.03	1,050.99	1,051.10	1,051.24	1,051.42	1,051.49
21	--	--	--	--	--	--	1,051.06	1,050.97	1,051.12	1,051.40	1,051.46	1,051.61
22	--	--	--	--	--	--	1,051.07	1,050.93	1,051.05	1,051.42	1,051.39	1,051.65
23	--	--	--	--	--	--	1,051.05	1,050.95	1,051.10	1,051.40	1,051.43	1,051.65
24	--	--	--	--	--	--	1,051.01	1,051.00	1,051.17	1,051.37	1,051.44	1,051.58
25	--	--	--	--	--	--	1,050.97	1,051.01	1,051.17	1,051.29	1,051.42	1,051.63
26	--	--	--	--	--	--	1,050.94	1,051.01	1,051.18	1,051.33	1,051.48	1,051.53
27	--	--	--	--	--	--	1,050.91	1,051.01	1,051.14	1,051.40	1,051.44	1,051.59
28	--	--	--	--	--	1,051.21	1,050.87	1,051.05	1,051.06	1,051.40	1,051.51	1,051.58
29	--	--	--	--	--	1,051.18	1,050.84	1,051.05	1,051.18	1,051.34	1,051.42	1,051.59
30	--	--	--	--	--	1,051.15	1,050.84	1,051.07	1,051.20	1,051.35	1,051.33	1,051.62
31	--	--	--	--	--	--	1,050.85	1,051.05	--	1,051.40	--	1,051.72
Max	--	--	--	--	--	--	1,051.15	1,051.07	1,051.20	1,051.42	1,051.51	1,051.72
Min	--	--	--	--	--	--	1,050.84	1,050.82	1,050.99	1,051.08	1,051.33	1,051.37

Note: Depth in ft-bgs. Period of record maximum = 1,051.72 ft-bgs and minimum = 1,050.82 ft-bgs.

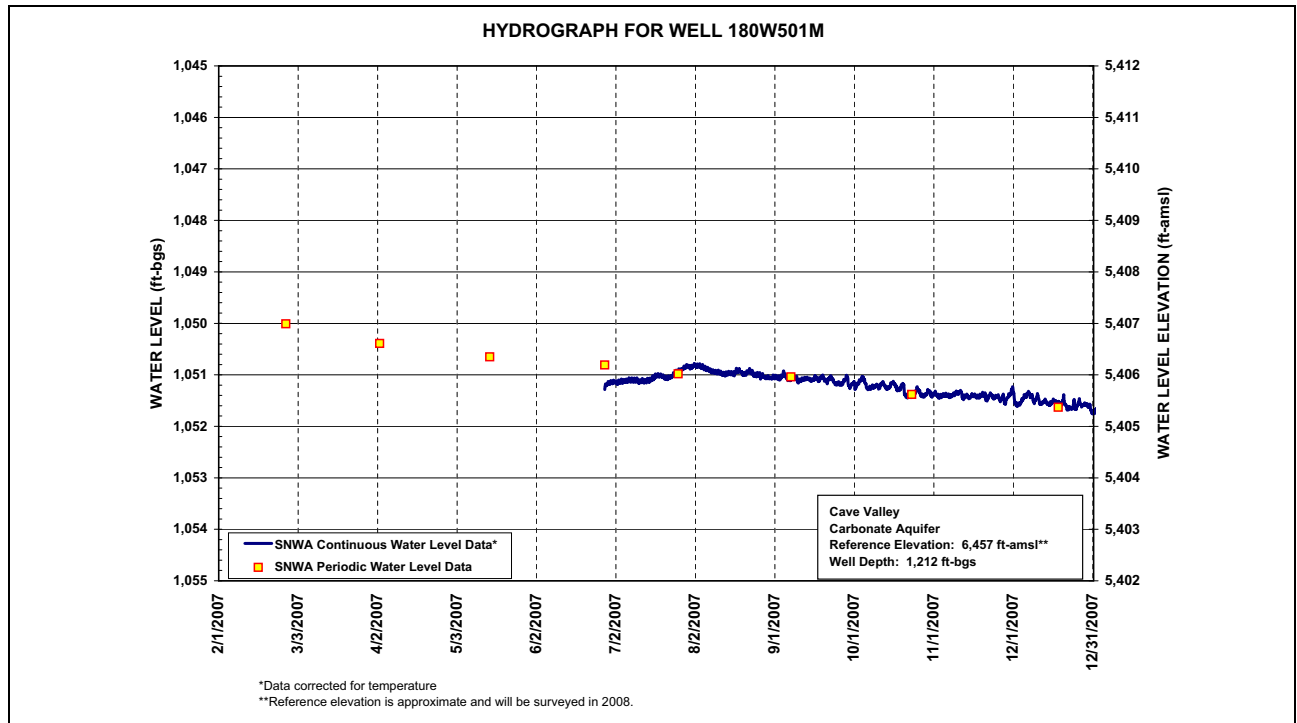




Table A-3
Cave Valley Well 180W902M (Calendar Year 2007)
Water-Level Data, Daily Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	--	--	--	--	137.58	137.73	137.89	138.01	138.12	--	--	--
2	--	--	--	--	137.54	137.76	137.90	138.01	138.12	--	--	--
3	--	--	--	--	137.58	137.77	137.92	138.01	138.13	--	--	--
4	--	--	--	--	137.55	137.76	137.91	137.99	138.03	--	--	--
5	--	--	--	--	137.63	137.63	137.91	137.97	138.05	--	--	--
6	--	--	--	--	137.70	137.69	137.90	137.98	138.14	--	--	--
7	--	--	--	--	137.74	137.78	137.89	138.00	138.15	--	--	--
8	--	--	--	--	137.69	137.79	137.89	138.02	138.13	--	--	--
9	--	--	--	--	137.68	137.80	137.90	138.03	138.14	--	--	--
10	--	--	--	--	137.70	137.77	137.91	138.04	138.20	--	--	--
11	--	--	--	--	137.69	137.77	137.95	138.05	138.17	--	--	--
12	--	--	--	--	137.67	137.84	137.94	138.07	138.14	--	--	--
13	--	--	--	--	137.66	137.84	137.96	138.06	138.12	--	--	--
14	--	--	--	--	137.72	137.79	137.95	138.04	138.13	--	--	--
15	--	--	--	--	137.72	137.79	137.93	138.03	138.16	--	--	--
16	--	--	--	--	137.69	137.79	137.91	138.04	138.12	--	--	--
17	--	--	--	137.50	137.70	137.79	137.91	138.03	138.12	--	--	--
18	--	--	--	137.54	137.70	137.82	137.91	138.02	138.15	--	--	--
19	--	--	--	137.56	137.70	137.87	137.92	138.04	138.08	--	--	--
20	--	--	--	137.55	137.64	137.87	137.94	138.09	138.15	--	--	--
21	--	--	--	137.60	137.63	137.86	137.98	138.06	138.20	--	--	--
22	--	--	--	137.55	137.70	137.83	137.99	138.01	138.12	--	--	--
23	--	--	--	137.62	137.76	137.81	137.96	138.01	138.17	--	--	--
24	--	--	--	137.69	137.74	137.79	137.95	138.07	138.26	--	--	--
25	--	--	--	137.62	137.73	137.86	137.96	138.09	138.26	--	--	--
26	--	--	--	137.62	137.72	137.89	137.99	138.09	138.26	--	--	--
27	--	--	--	137.69	137.71	137.88	138.00	138.09	--	--	--	--
28	--	--	--	137.67	137.70	137.87	137.97	138.13	--	--	--	--
29	--	--	--	137.63	137.77	137.87	137.96	138.14	--	--	--	--
30	--	--	--	137.61	137.77	137.88	137.97	138.15	--	--	--	--
31	--	--	--	--	137.72	--	138.00	138.13	--	--	--	--
Max	--	--	--	--	137.77	137.89	138.00	138.15	--	--	--	--
Min	--	--	--	--	137.54	137.63	137.89	137.97	--	--	--	--

Note: Depth in ft-bgs. Period of record maximum = 138.26 ft-bgs and minimum = 137.50 ft-bgs.

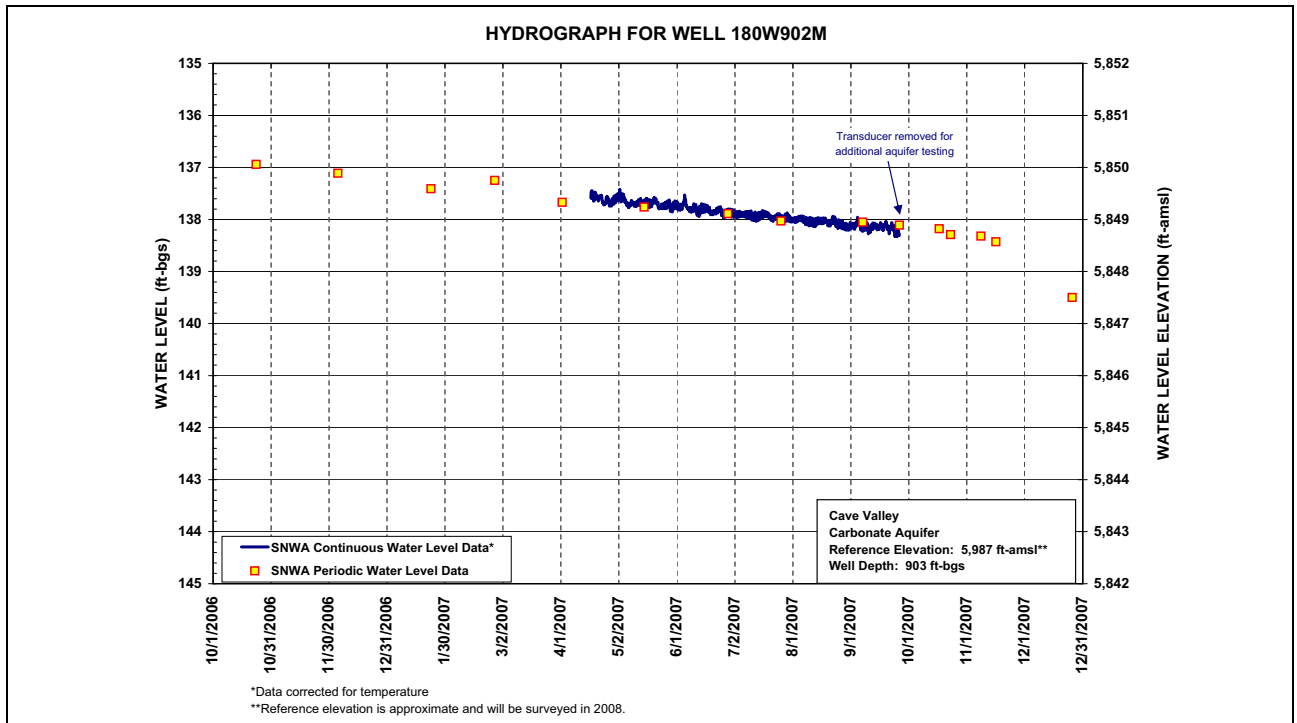




Table A-4
Dry Lake Valley Well 181M-1 (Calendar Year 2007)
Water-Level Data, Daily Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	--	--	--	--	675.33	675.35	675.40	675.40	675.37	675.35	675.40	675.23
2	--	--	--	--	675.30	675.38	675.40	675.40	675.37	675.43	675.47	675.62
3	--	--	--	--	675.32	675.40	675.43	675.39	675.40	675.27	675.50	675.57
4	--	--	--	--	675.27	675.39	675.40	675.36	675.31	675.17	675.43	675.40
5	--	--	--	--	675.36	675.26	675.39	675.33	675.26	675.23	675.41	675.24
6	--	--	--	--	675.45	675.23	675.39	675.34	675.40	675.46	675.42	675.22
7	--	--	--	--	675.48	675.41	675.39	675.36	675.41	675.45	675.44	675.20
8	--	--	--	--	675.42	675.41	675.37	675.38	675.37	675.37	675.39	675.30
9	--	--	--	--	675.37	675.38	675.38	675.38	675.34	675.34	675.34	675.44
10	--	--	--	--	675.41	675.35	675.39	675.39	675.43	675.31	675.34	675.25
11	--	--	--	--	675.41	675.32	675.42	675.38	675.42	675.32	675.34	675.42
12	--	--	--	675.72	675.38	675.42	675.43	675.41	675.35	675.21	675.50	675.45
13	--	--	--	675.95	675.37	675.44	675.42	675.41	675.33	675.32	675.42	675.33
14	--	--	--	675.88	675.42	675.35	675.42	675.37	675.33	675.38	675.45	675.41
15	--	--	--	675.69	675.44	675.34	675.38	675.36	675.38	675.27	675.39	675.41
16	--	--	--	675.57	675.39	675.36	675.37	675.36	675.34	675.18	675.37	675.31
17	--	--	--	675.42	675.39	675.33	675.36	675.36	675.29	675.31	675.40	675.30
18	--	--	--	675.25	675.40	675.38	675.35	675.35	675.37	675.44	675.39	675.36
19	--	--	--	675.38	675.38	675.42	675.36	675.34	675.27	675.32	675.34	675.38
20	--	--	--	675.27	675.34	675.43	675.37	675.41	675.31	675.27	675.36	675.25
21	--	--	--	675.36	675.26	675.40	675.41	675.38	675.39	675.57	675.48	675.43
22	--	--	--	675.32	675.37	675.37	675.42	675.30	675.30	675.55	675.33	675.51
23	--	--	--	675.34	675.46	675.34	675.39	675.29	675.29	675.47	675.36	675.44
24	--	--	--	675.48	675.41	675.32	675.38	675.36	675.43	675.42	675.40	675.31
25	--	--	--	675.41	675.38	675.39	675.38	675.39	675.43	675.31	675.36	675.42
26	--	--	--	675.32	675.38	675.43	675.40	675.36	675.40	675.37	675.44	675.22
27	--	--	--	675.45	675.37	675.40	675.41	675.38	675.36	675.50	675.36	675.35
28	--	--	--	675.44	675.33	675.39	675.38	675.39	675.23	675.48	675.50	675.34
29	--	--	--	675.38	675.41	675.38	675.35	675.41	675.27	675.37	675.30	675.34
30	--	--	--	675.36	675.43	675.39	675.35	675.42	675.49	675.36	675.17	675.38
31	--	--	--	--	675.35	--	675.39	675.41	--	675.47	--	675.54
Max	--	--	--	--	675.48	675.44	675.43	675.42	675.49	675.57	675.50	675.62
Min	--	--	--	--	675.26	675.23	675.35	675.29	675.23	675.17	675.17	675.20

Note: Depth in ft-bgs. Period of record maximum = 675.95 ft-bgs and minimum = 675.17 ft-bgs.

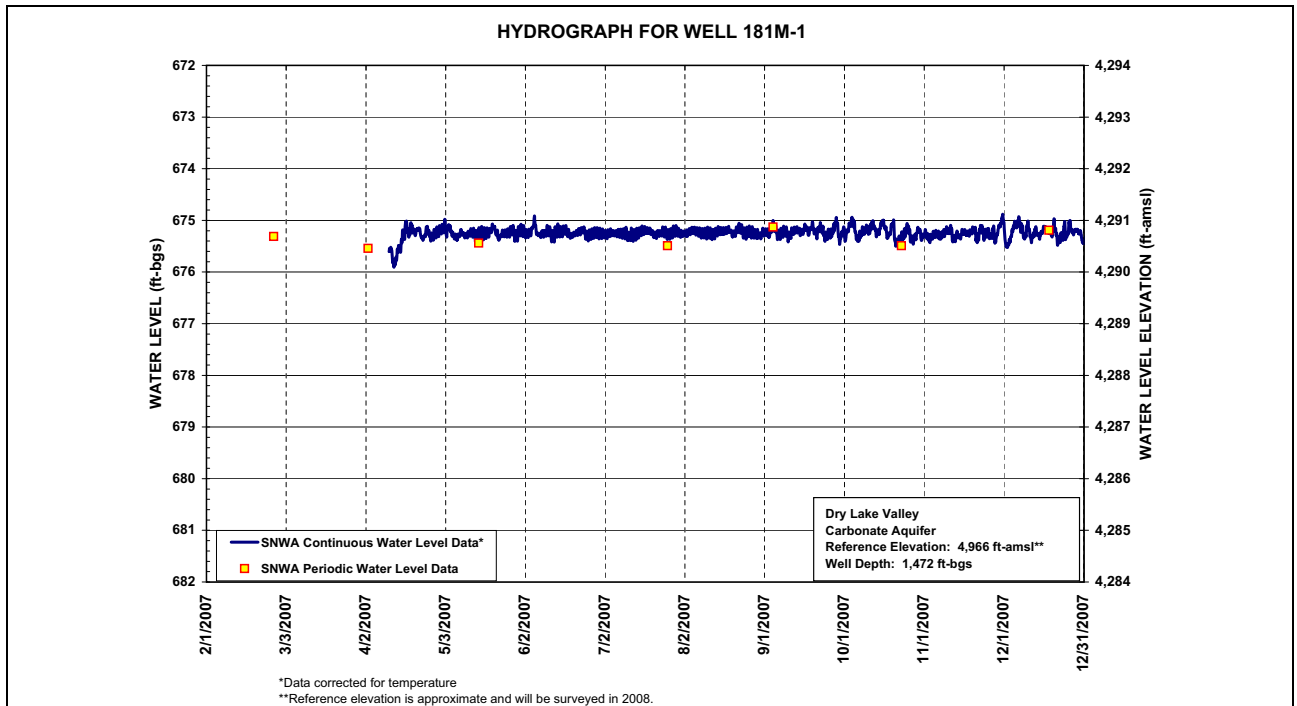




Table A-5
Dry Lake Valley Well 181W909M (Calendar Year 2007)
Water-Level Data, Daily Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	--	--	--	--	--	--	497.17	497.11	497.16	497.07	497.13	496.75
2	--	--	--	--	--	--	497.19	497.13	497.15	497.14	497.16	497.04
3	--	--	--	--	--	--	497.21	497.14	497.16	497.05	497.21	497.19
4	--	--	--	--	--	--	497.20	497.12	497.07	496.90	497.19	497.16
5	--	--	--	--	--	--	497.20	497.08	496.97	496.82	497.15	497.00
6	--	--	--	--	--	--	497.20	497.08	497.04	496.98	497.13	496.88
7	--	--	--	--	--	--	497.19	497.09	497.08	497.09	497.14	496.76
8	--	--	--	--	--	--	497.17	497.11	497.07	497.08	497.11	496.77
9	--	--	--	--	--	--	497.16	497.12	497.05	497.05	497.05	496.89
10	--	--	--	--	--	--	497.15	497.14	497.13	497.00	497.00	496.84
11	--	--	--	--	--	--	497.18	497.14	497.14	497.00	496.96	496.91
12	--	--	--	--	--	--	497.19	497.17	497.10	496.89	497.09	497.03
13	--	--	--	--	--	--	497.22	497.18	497.06	496.90	497.10	496.99
14	--	--	--	--	--	--	497.22	497.16	497.04	496.98	497.12	497.04
15	--	--	--	--	--	--	497.19	497.14	497.07	496.95	497.10	497.08
16	--	--	--	--	--	--	497.15	497.12	497.03	496.85	497.07	497.01
17	--	--	--	--	--	--	497.13	497.10	496.99	496.88	497.06	496.95
18	--	--	--	--	--	--	497.11	497.08	497.02	497.02	497.06	496.97
19	--	--	--	--	--	--	497.10	497.08	496.94	497.02	497.02	496.99
20	--	--	--	--	--	--	497.11	497.13	496.96	496.94	496.99	496.92
21	--	--	--	--	--	--	497.15	497.12	497.01	497.17	497.09	496.97
22	--	--	--	--	--	--	497.17	497.05	496.95	497.31	497.03	497.12
23	--	--	--	--	--	--	497.17	497.01	496.95	497.31	496.99	497.14
24	--	--	--	--	--	--	497.15	497.05	497.07	497.27	497.03	497.06
25	--	--	--	--	--	--	497.14	497.08	497.12	497.15	497.01	497.09
26	--	--	--	--	--	--	497.16	497.09	497.13	497.10	497.07	496.95
27	--	--	--	--	--	497.17	497.17	497.09	497.09	497.19	497.04	496.95
28	--	--	--	--	--	497.20	497.15	497.12	496.96	497.24	497.14	496.96
29	--	--	--	--	--	497.18	497.11	497.16	496.97	497.18	497.04	496.95
30	--	--	--	--	--	497.17	497.10	497.19	497.11	497.10	496.87	496.97
31	--	--	--	--	--	--	497.22	497.18	--	497.16	--	497.12
Max	--	--	--	--	--	--	497.22	497.19	497.16	497.31	497.21	497.19
Min	--	--	--	--	--	--	497.10	497.01	496.94	496.82	496.87	496.75

Note: Depth in ft-bgs. Period of record maximum = 497.31 ft-bgs and minimum = 496.75 ft-bgs.

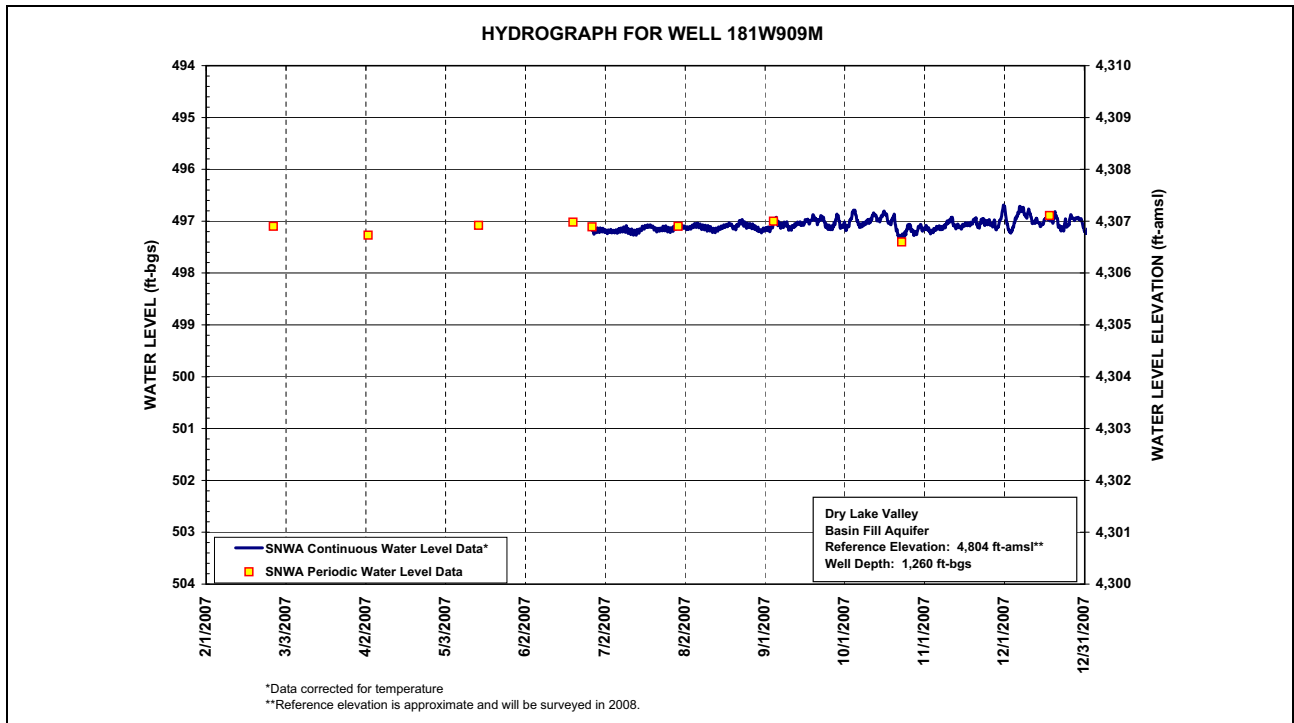




Table A-6
Delamar Valley Well 182M-1 (Calendar Year 2007)
Water-Level Data, Daily Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	--	--	--	--	--	--	826.85	826.87	826.81	826.80	--	--
2	--	--	--	--	--	--	826.86	826.86	826.82	826.88	--	--
3	--	--	--	--	--	--	826.87	826.84	826.82	826.72	--	--
4	--	--	--	--	--	--	826.84	826.81	826.70	826.63	--	--
5	--	--	--	--	--	--	826.85	826.80	826.77	826.75	--	--
6	--	--	--	--	--	--	826.86	826.83	826.90	826.98	--	--
7	--	--	--	--	--	--	826.84	826.85	826.87	826.93	--	--
8	--	--	--	--	--	--	826.84	826.86	826.81	826.81	--	--
9	--	--	--	--	--	--	826.86	826.85	826.81	826.79	--	--
10	--	--	--	--	--	--	826.86	826.86	826.90	826.77	--	--
11	--	--	--	--	--	--	826.90	826.85	826.83	826.78	--	--
12	--	--	--	--	--	--	826.87	826.87	826.79	826.68	--	--
13	--	--	--	--	--	--	826.88	826.85	826.78	826.82	--	--
14	--	--	--	--	--	--	826.86	826.82	826.81	826.88	--	--
15	--	--	--	--	--	--	826.83	826.81	826.84	826.75	--	--
16	--	--	--	--	--	--	826.81	826.81	826.77	826.67	--	--
17	--	--	--	--	--	--	826.82	826.82	826.79	826.84	--	--
18	--	--	--	--	--	--	826.83	826.79	826.84	826.95	--	--
19	--	--	--	--	--	--	826.84	826.84	826.72	826.79	--	826.77
20	--	--	--	--	--	--	826.86	826.88	826.85	826.75	--	826.62
21	--	--	--	--	--	--	826.90	826.81	826.86	827.07	--	826.83
22	--	--	--	--	--	--	826.87	826.75	826.76	826.98	--	826.89
23	--	--	--	--	--	--	826.85	826.78	826.84	826.83	--	826.78
24	--	--	--	--	--	--	826.83	826.87	826.95	826.78	--	826.62
25	--	--	--	--	--	--	826.84	826.87	826.87	826.68	--	826.77
26	--	--	--	--	--	--	826.88	826.83	826.84	826.77	--	826.55
27	--	--	--	--	--	--	826.86	826.84	826.77	826.91	--	826.73
28	--	--	--	--	--	826.70	826.82	826.86	826.65	826.86	--	826.71
29	--	--	--	--	--	826.74	826.80	826.87	826.88	826.80	--	826.71
30	--	--	--	--	--	826.83	826.83	826.88	826.94	--	--	826.73
31	--	--	--	--	--	--	826.87	826.83	--	--	--	826.88
Max	--	--	--	--	--	--	826.90	826.88	826.95	827.07	--	--
Min	--	--	--	--	--	--	826.80	826.75	826.65	826.63	--	--

Note: Depth in ft-bgs. Period of record maximum = 827.07 ft-bgs and minimum = 826.55 ft-bgs.

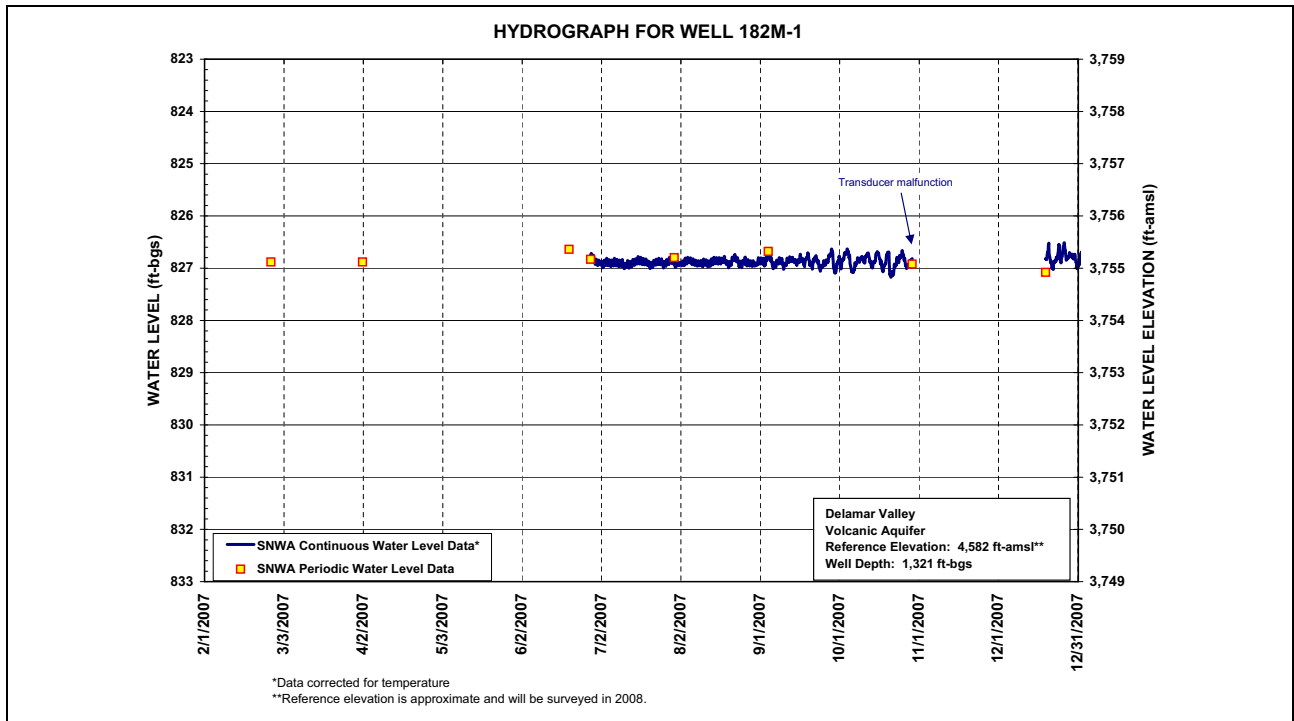
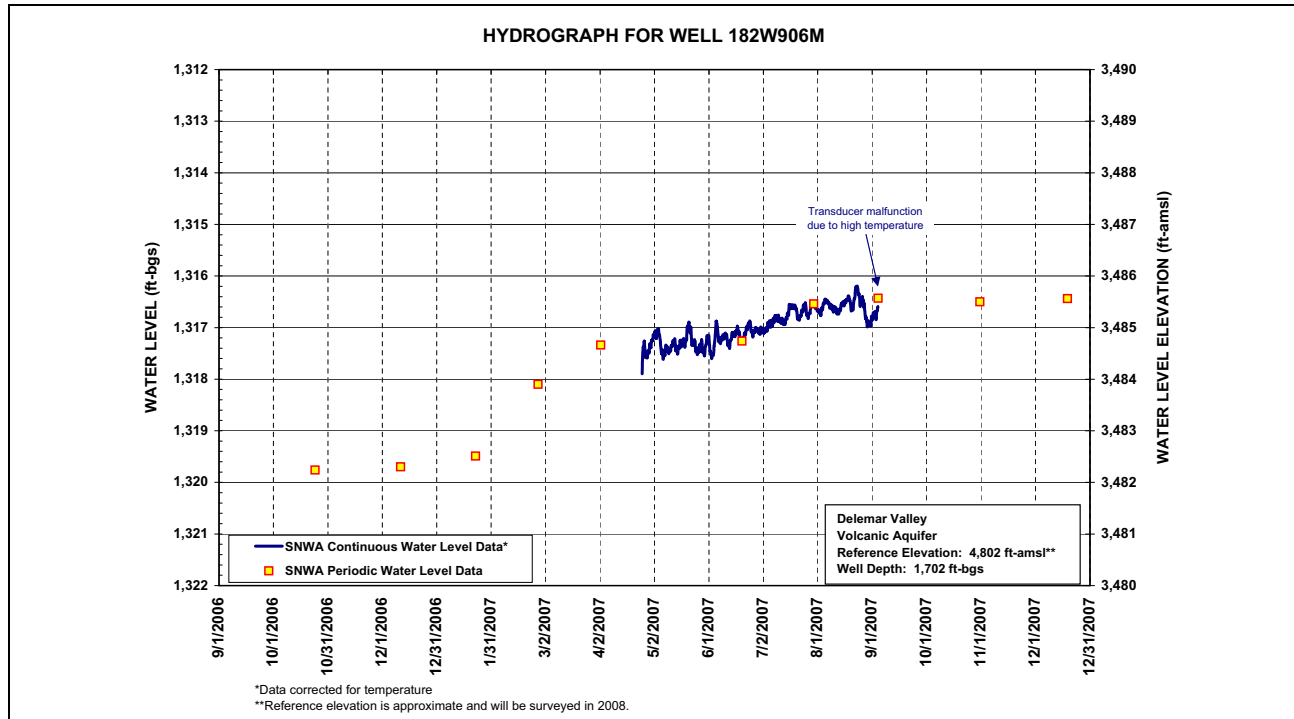




Table A-7
Delamar Valley Well 182W906M (Calendar Year 2007)
Water-Level Data, Daily Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	--	--	--	--	1,317.21	1,317.20	1,317.04	1,316.65	1,316.78	--	--	--
2	--	--	--	--	1,317.14	1,317.40	1,317.08	1,316.69	1,316.74	--	--	--
3	--	--	--	--	1,317.14	1,317.55	1,317.05	1,316.70	1,316.77	--	--	--
4	--	--	--	--	1,317.05	1,317.47	1,317.00	1,316.60	1,316.52	--	--	--
5	--	--	--	--	1,317.20	1,317.12	1,316.93	1,316.50	1,316.32	--	--	--
6	--	--	--	--	1,317.45	1,316.96	1,316.92	1,316.48	1,316.60	--	--	--
7	--	--	--	--	1,317.55	1,317.22	1,316.90	1,316.51	1,316.82	--	--	--
8	--	--	--	--	1,317.46	1,317.25	1,316.83	1,316.57	1,316.93	--	--	--
9	--	--	--	--	1,317.40	1,317.19	1,316.80	1,316.59	1,316.77	--	--	--
10	--	--	--	--	1,317.45	1,317.17	1,316.82	1,316.64	1,316.89	--	--	--
11	--	--	--	--	1,317.41	1,317.14	1,316.86	1,316.63	1,316.90	--	--	--
12	--	--	--	--	1,317.32	1,317.30	1,316.88	1,316.69	1,316.75	--	--	--
13	--	--	--	--	1,317.27	1,317.33	1,316.89	1,316.70	1,316.66	--	--	--
14	--	--	--	--	1,317.38	1,317.19	1,316.89	1,316.62	1,316.62	--	--	--
15	--	--	--	--	1,317.45	1,317.12	1,316.79	1,316.53	1,316.69	--	--	--
16	--	--	--	--	1,317.34	1,317.13	1,316.69	1,316.52	1,316.61	--	--	--
17	--	--	--	--	1,317.30	1,317.04	1,316.59	1,316.49	1,316.46	--	--	--
18	--	--	--	--	1,317.28	1,317.08	1,316.59	1,316.44	1,316.54	--	--	--
19	--	--	--	--	1,317.32	1,317.21	1,316.60	1,316.44	1,316.35	--	--	--
20	--	--	--	--	1,317.14	1,317.24	1,316.62	1,316.62	1,316.35	--	--	--
21	--	--	--	--	1,316.95	1,317.17	1,316.78	1,316.60	1,316.57	--	--	--
22	--	--	--	--	1,317.04	1,317.08	1,316.82	1,316.38	1,316.41	--	--	--
23	--	--	--	--	1,317.27	1,316.98	1,316.74	1,316.21	1,316.36	--	--	--
24	--	--	--	--	1,317.30	1,316.90	1,316.65	1,316.32	1,316.70	--	--	--
25	--	--	--	1,317.62	1,317.39	1,317.02	1,316.58	1,316.49	1,316.77	--	--	--
26	--	--	--	1,317.35	1,317.46	1,317.13	1,316.69	1,316.46	1,316.68	--	--	--
27	--	--	--	1,317.51	1,317.40	1,317.06	1,316.77	1,316.54	1,316.53	--	--	--
28	--	--	--	1,317.52	1,317.31	1,317.02	1,316.68	1,316.77	1,316.10	--	--	--
29	--	--	--	1,317.42	1,317.41	1,317.07	1,316.56	1,316.91	1,316.08	--	--	--
30	--	--	--	1,317.34	1,317.47	1,317.07	1,316.52	1,316.93	1,316.67	--	--	--
31	--	--	--	--	1,317.27	--	1,316.60	1,316.90	--	--	--	--
Max	--	--	--	--	1,317.55	1,317.55	1,317.08	1,316.93	1,316.93	--	--	--
Min	--	--	--	--	1,316.95	1,316.90	1,316.52	1,316.21	1,316.08	--	--	--

Note: Depth in ft-bgs. Period of record maximum = 1,317.62 ft-bgs and minimum = 1,316.08 ft-bgs.

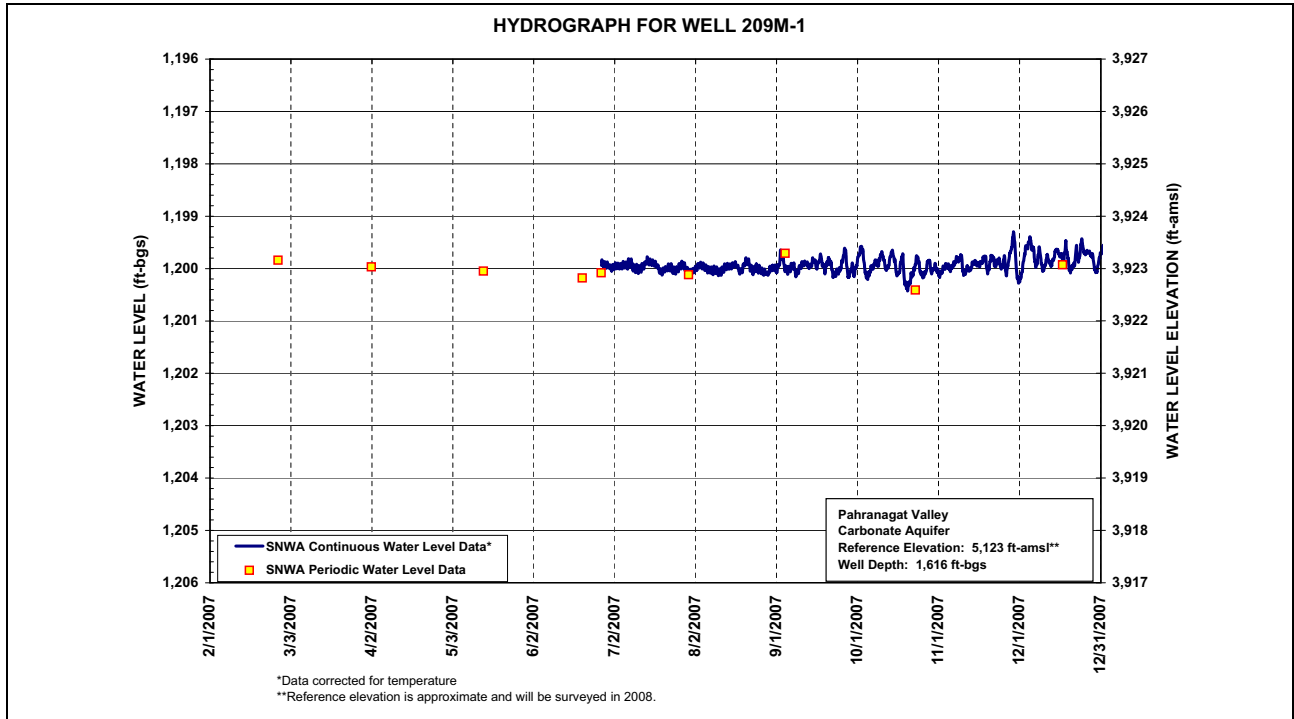


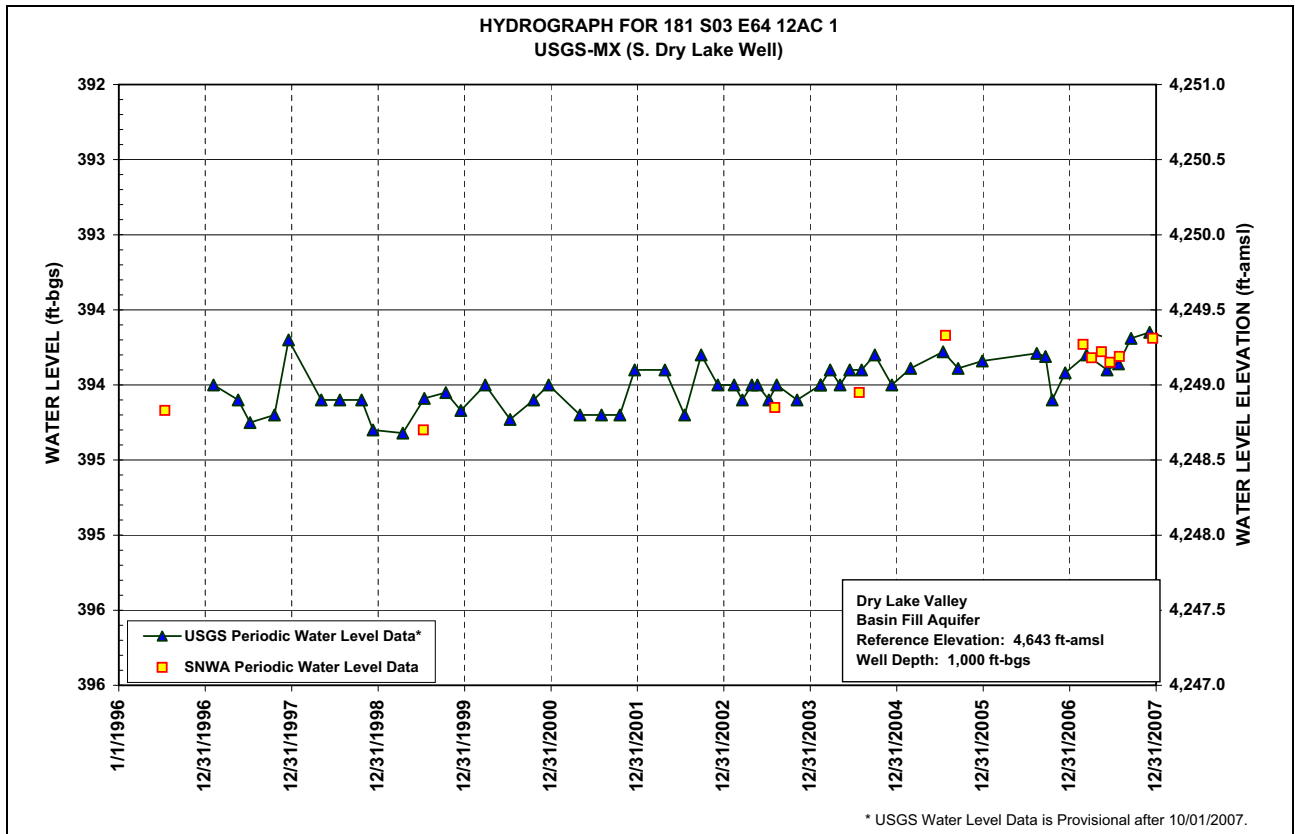
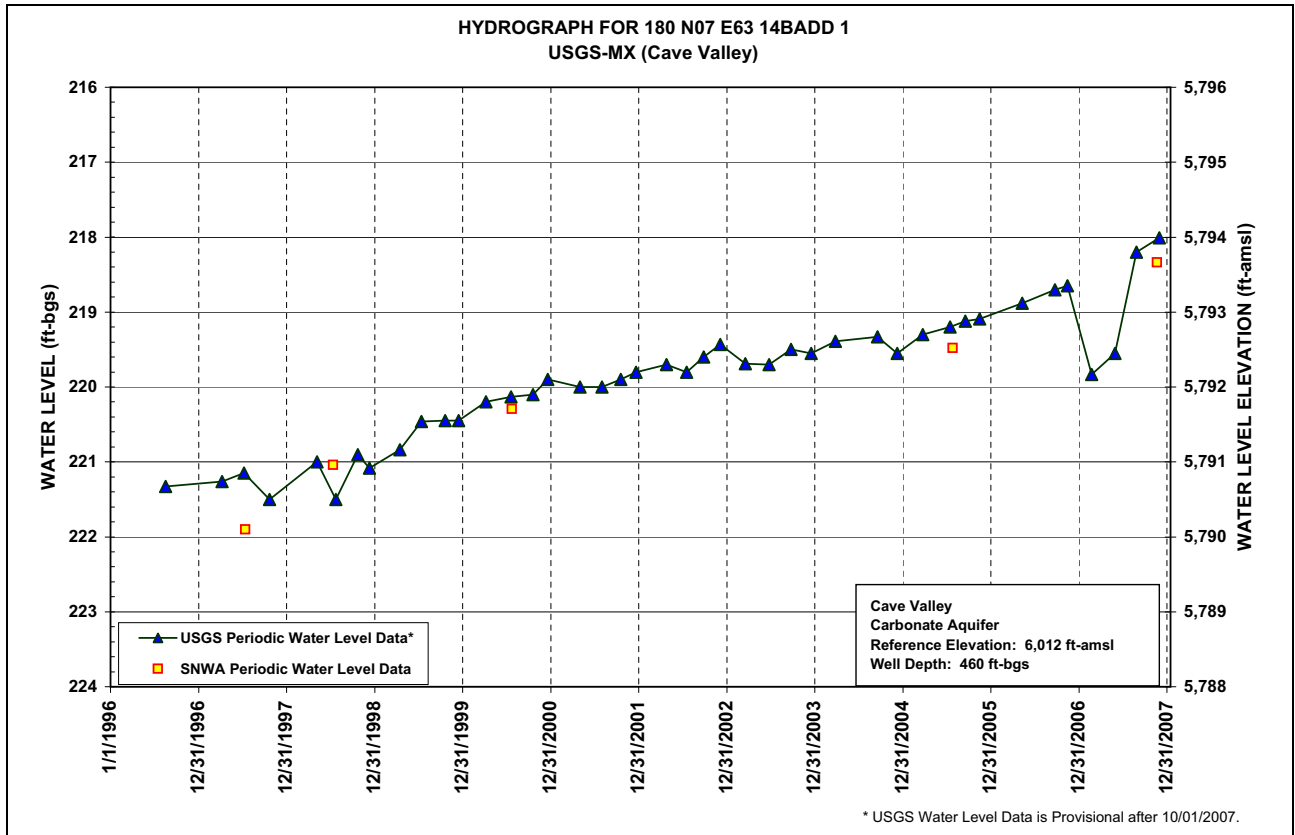


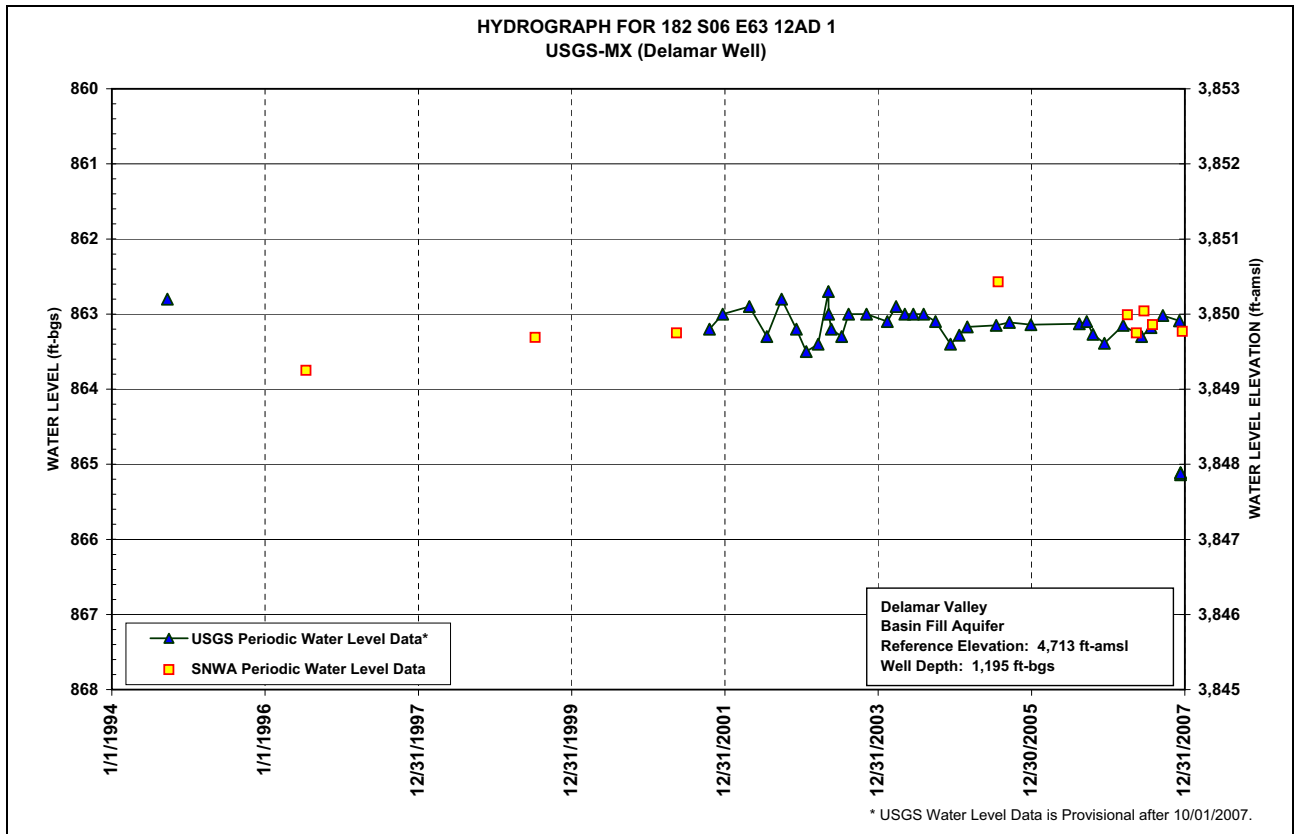
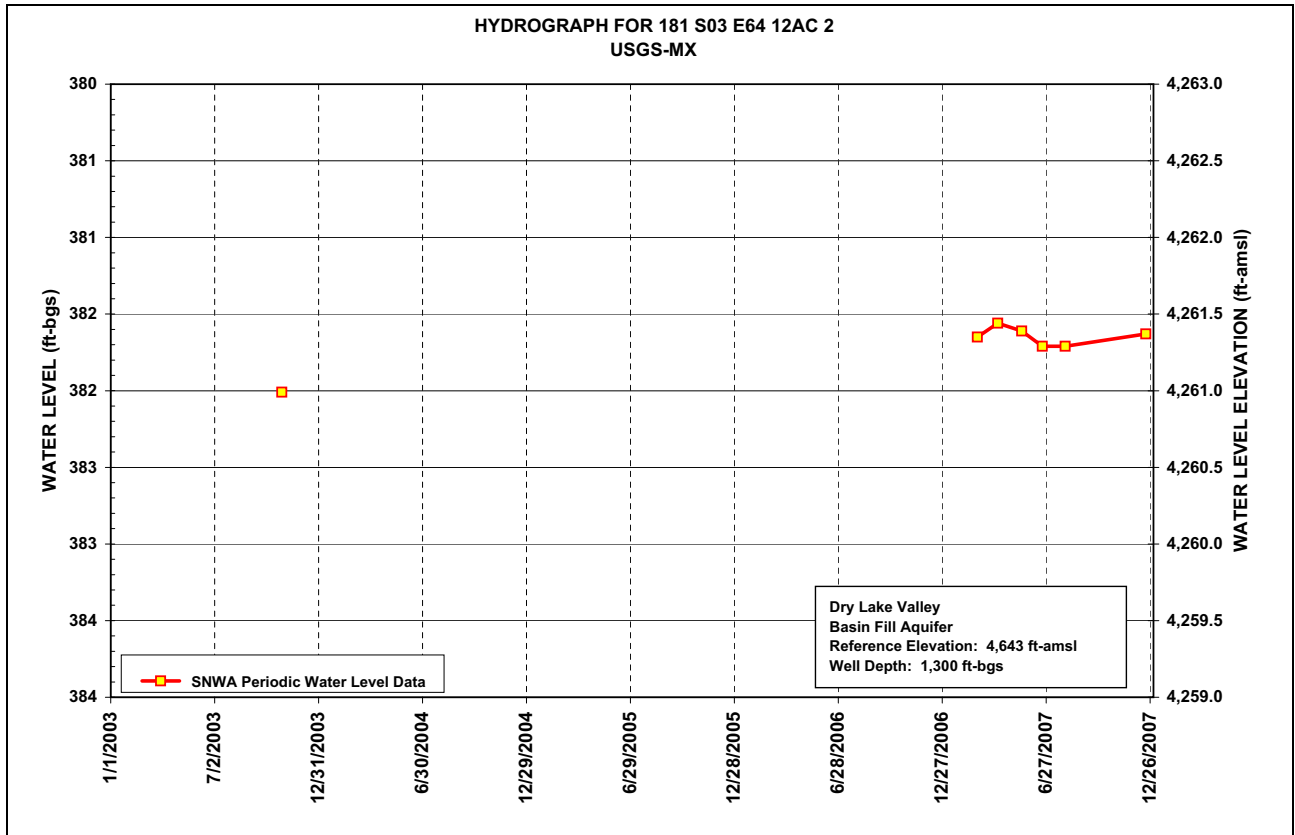
**Table A-8
Pahrnagat Valley Well 209M-1 (Calendar Year 2007)
Water-Level Data, Daily Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	--	--	--	--	--	--	1,200.04	1,200.16	1,200.11	1,200.09	1,200.08	1,199.64
2	--	--	--	--	--	--	1,200.07	1,200.16	1,200.11	1,200.18	1,200.16	1,200.25
3	--	--	--	--	--	--	1,200.10	1,200.14	1,200.12	1,199.98	1,200.22	1,200.32
4	--	--	--	--	--	--	1,200.07	1,200.09	1,199.92	1,199.78	1,200.13	1,200.08
5	--	--	--	--	--	--	1,200.07	1,200.05	1,199.92	1,199.80	1,200.07	1,199.77
6	--	--	--	--	--	--	1,200.07	1,200.06	1,200.10	1,200.16	1,200.07	1,199.66
7	--	--	--	--	--	--	1,200.05	1,200.09	1,200.14	1,200.25	1,200.11	1,199.61
8	--	--	--	--	--	--	1,200.03	1,200.13	1,200.09	1,200.14	1,200.04	1,199.76
9	--	--	--	--	--	--	1,200.02	1,200.14	1,200.06	1,200.07	1,199.95	1,200.02
10	--	--	--	--	--	--	1,200.01	1,200.15	1,200.19	1,199.99	1,199.93	1,199.81
11	--	--	--	--	--	--	1,200.08	1,200.14	1,200.14	1,200.00	1,199.93	1,199.99
12	--	--	--	--	--	--	1,200.11	1,200.18	1,200.06	1,199.84	1,200.18	1,200.10
13	--	--	--	--	--	--	1,200.12	1,200.16	1,200.02	1,199.96	1,200.12	1,199.92
14	--	--	--	--	--	--	1,200.10	1,200.11	1,200.02	1,200.10	1,200.13	1,199.99
15	--	--	--	--	--	--	1,200.05	1,200.08	1,200.08	1,199.98	1,200.05	1,200.00
16	--	--	--	--	--	--	1,199.98	1,200.08	1,200.01	1,199.81	1,200.00	1,199.84
17	--	--	--	--	--	--	1,200.00	1,200.07	1,199.98	1,199.97	1,200.03	1,199.77
18	--	--	--	--	--	--	1,200.01	1,200.05	1,200.06	1,200.21	1,200.03	1,199.86
19	--	--	--	--	--	--	1,200.03	1,200.08	1,199.91	1,200.09	1,199.96	1,199.91
20	--	--	--	--	--	--	1,200.07	1,200.16	1,200.02	1,199.96	1,199.94	1,199.75
21	--	--	--	--	--	--	1,200.16	1,200.11	1,200.11	1,200.38	1,200.13	1,199.93
22	--	--	--	--	--	--	1,200.17	1,199.99	1,199.97	1,200.46	1,199.95	1,200.12
23	--	--	--	--	--	--	1,200.13	1,199.98	1,200.02	1,200.31	1,199.94	1,200.05
24	--	--	--	--	--	--	1,200.10	1,200.09	1,200.21	1,200.18	1,200.02	1,199.83
25	--	--	--	--	--	--	1,200.09	1,200.14	1,200.20	1,199.98	1,199.96	1,199.92
26	--	--	--	--	--	--	1,200.14	1,200.11	1,200.16	1,199.99	1,200.07	1,199.65
27	--	--	--	--	--	1,200.45	1,200.14	1,200.12	1,200.05	1,200.20	1,199.97	1,199.78
28	--	--	--	--	--	1,200.27	1,200.10	1,200.16	1,199.83	1,200.23	1,200.15	1,199.80
29	--	--	--	--	--	1,200.04	1,200.05	1,200.18	1,200.00	1,200.09	1,199.89	1,199.81
30	--	--	--	--	--	1,200.03	1,200.06	1,200.21	1,200.23	1,199.99	1,199.64	1,199.87
31	--	--	--	--	--	--	1,200.13	1,200.16	--	1,200.16	--	1,200.09
Max	--	--	--	--	--	--	1,200.17	1,200.21	1,200.23	1,200.46	1,200.22	1,200.32
Min	--	--	--	--	--	--	1,199.98	1,199.98	1,199.83	1,199.78	1,199.64	1,199.61

Note: Depth in ft-bgs. Period of record maximum = 1,200.46 ft-bgs and minimum = 1,199.61 ft-bgs.







Appendix B

Water-Chemistry Data from the Current SNWA DDC Groundwater Monitoring Network



Table B-1
Delamar, Dry Lake, and Cave Valley Monitor and
Test Well Groundwater Chemistry Data
 (Page 1 of 5)

Parameter	Unit	CAV6002X 12/3/2007	180W501M 5/17/2006	180W902M 5/18/2006	181M-1 5/31/2006	181W909M 6/5/2006	182M-1 5/23/2006	182W906M 6/20/2006	209M-1 6/7/2006
Field Measurements^a									
Conductivity	µS/cm	468	394	441	470	617	443	361	487
Dissolved Oxygen	mg/L	---	3.83	5.48	4.72	4.92	4.34	3.65	4.39
pH	units	7.83	7.43	7.58	7.52	7.71	7.93	8.52	7.65
Turbidity	NTU	1.24	---	---	---	---	---	---	---
Water Temperature	°C	15.9	18.5	18.2	22.5	25.6	34.8	40.0	39.6
Major/Minor Constituents^a									
Alkalinity Bicarbonate (as HCO ₃)	mg/L	270	210	270	280	300	180	120	180
Alkalinity Carbonate (as CaCO ₃)	mg/L	<2	<2	<2	<2	<2	<2	9.5	<2
Alkalinity Hydroxide (as CaCO ₃)	mg/L	<2	<2	<2	<2	<2	<2	<2	<2
Alkalinity Total (as CaCO ₃)	mg/L	220	170	220	230	250	150	110	150
Bromide	µg/L	73	91	82	74	130	97	47	99
Chlorate	µg/L	<10	<10	<10	<10	<10	<10	<10	<10
Chloride	mg/L	7.3	8.1	6.6	6.9	23	11	4.8	9.6
Cyanide	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/L	0.17	0.16	0.16	0.36	0.22	2.2	5.9	0.36
Nitrate (as N)	mg/L	1.1	1.9	0.91	0.21	1.1	1.2	0.89	0.54
Nitrite (as N)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100
Phosphate (as P)	µg/L	11	<2	7.7	<10	<10	<10	10	<10
Phosphorus (as P)	mg/L	<0.01	<0.01	<0.01	<0.01	0.039	0.030	0.013	<0.01
Sulfate	mg/L	16	12	15	25	52	20	9.1	24
Calcium	mg/L	53 53 ^b	46	54	50	48	19	9.1	37
Magnesium	mg/L	21 22 ^b	18	22	24	19	4.2	0.36	13
Potassium	mg/L	1.7 1.7 ^b	3.0	1.6	5.2	5.6	7.9	1.4	4.9
Silica	mg/L	24	31	24	38	33	73	50	38
Sodium	mg/L	8.0 8.3 ^b	12	8.2	20	71	49	55	22
Cation/Anion Balance	percent	2.8	4.2	1.4	1.1	2.6	4.1	0.34	2.3
Misc. Measurements^a									
Total Organic Carbon	mg/L	<0.3	4.0	<0.3	<0.3	0.31	<0.3	<0.3	<0.3
Sodium Adsorption Ratio	None	0.33	0.54	0.34	0.82	3.10	3.75	6.88	1.12
Total Suspended Solids	mg/L	<5	<5	<5	<5	63	<5	10	<5
Total Dissolved Solids	mg/L	280	210	210	300	380	210	210	150
Hardness (as CaCO ₃)	mg/L	220	190	220	220	200	65	24	150
Trace Elements^a									
Aluminum	µg/L	<5 <5 ^b	15	<5	<5	990	<5	430	5.4
Antimony	µg/L	<0.5 0.51 ^b	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.57
Arsenic III	µg/L	2.2	---	---	---	---	---	---	---
Arsenic V	µg/L	<1	---	---	---	---	---	---	---
Arsenic	µg/L	2.5 2.4 ^b	3.8	2.9	6.8	6.1	17	2.1	14
Barium	µg/L	60 56 ^b	220	55	120	97	2.9	5.9	110
Beryllium	µg/L	<0.1 <0.1 ^b	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1
Boron	µg/L	40 41 ^b	38	31	110	340	200	110	110
Cadmium	µg/L	<0.1 <0.1 ^b	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium, Hexavalent	µg/L	0.84	---	---	---	---	---	---	---
Chromium, Trivalent	µg/L	<0.2	---	---	---	---	---	---	---
Chromium	µg/L	0.25 0.29 ^b	0.99	0.37	0.25	2.0	3.4	2.0	0.29



Table B-1
Delamar, Dry Lake, and Cave Valley Monitor and
Test Well Groundwater Chemistry Data
 (Page 2 of 5)

Parameter	Unit	CAV6002X 12/3/2007	180W501M 5/17/2006	180W902M 5/18/2006	181M-1 5/31/2006	181W909M 6/5/2006	182M-1 5/23/2006	182W906M 6/20/2006	209M-1 6/7/2006
Copper	µg/L	3.2 6.8	1.2	0.94	1.1	1.4	1.2	6.3	4.5
Iron	µg/L	<20 <20 ^b	650	49	380	2,400	130	1,300	270
Lead	µg/L	1.8 1.1 ^b	1.4	0.91	0.73	1.3	3.8	0.98	3.0
Lithium	µg/L	<10 <10 ^b	<10	<10	17	120	28	20	15
Manganese	µg/L	1.8 1.4 ^b	120	1.8	4.3	94	8.7	38	8.0
Mercury	µg/L	<0.1 <0.1 ^b	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.15
Molybdenum	µg/L	1.6 1.8 ^b	1.0	1.7	5.9	1.8	5.6	1.7	3.8
Nickel	µg/L	1.0 <0.8 ^b	17	2.0	2.0	3.8	<0.8	<0.8	2.0
Selenium	µg/L	2 1.7	0.85	2.1	<0.4	0.8	0.53	0.62	0.71
Silver	µg/L	<0.2 <0.2 ^b	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Strontium	µg/L	180 180 ^b	160	180	320	850	90	45	240
Thallium	µg/L	<0.2 <0.2 ^b	2.2	<0.2	0.24	<0.2	<0.2	<0.2	<0.2
Uranium - USGS	µg/L	---	1.07	2.03	4.16	3.51	4.35	4.51	2.32
Vanadium	µg/L	3.1 3.3 ^b	4.1	4.0	6.3	3.1	13.0	2.0	5.0
Zinc	µg/L	<5 8.8 ^b	8.7	3.0	2.9	3.6	<2	3.2	8.6
Environmental Isotopes^a									
Carbon-13/12 DIC	per mil	-7.6	-8.7	-7.1	-6.8	-4.0	-7.6	-11.6	-7.2
Carbon-14 DIC	pmc	12.49	25.00	12.78	5.40	4.42	13.73	15.63	11.32
Hydrogen-2/1	per mil	-106.3	-105.6	-104.7	-105.0	-104.6	-109.6	-100.3	-104.7
Oxygen-18/16	per mil	-14.30	-14.12	-14.13	-13.67	-13.50	-14.07	-13.40	-13.53
Strontium-87/86	ratio	---	0.71099	0.70944	0.71048	0.71345	0.70996	0.70859	0.71026
Uranium-234/238, Activity	ratio	---	3.740	3.849	3.898	4.648	2.766	2.528	3.664
Radiological Parameters^a									
Gross Alpha	pCi/L	4.9	6.2	3.4	10.5	8.17	2.1	7.4	6.33
Gross Beta	pCi/L	4.5	3.0	1.7	3.6	5.0	7.0	0.56	5.2
Radium Total	pCi/L	<0.5	2.4	0.7	1.2	<0.4	<0.4	<0.3	0.8
Radium-226	pCi/L	<0.5	2.4	0.7	1.2	<0.4	<0.3	<0.2	0.8
Radium-228	pCi/L	<0.4	<0.3	<0.3	<0.3	<0.3	<0.4	<0.3	<0.4
Radon	pCi/L	---	269	237	213	373	696	445	99
Radon-222	pCi/L	316	---	---	---	---	---	---	---
Strontium-90	pCi/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Tritium	TU	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	1.2
Tritium	pCi/L	<319	<483	<483	<483	<483	<483	<483	<483
Uranium	pCi/L	1.7	0.67	1.3	2.7	3.1	2.1	4.7	1.5
Organics									
Acifluorfen	µg/L	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alachlor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldicarb	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
Aldicarb Sulfone	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
Aldicarb Sulfoxide	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
Aldrin	µg/L	<0.05	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Atrazine	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Baygon	µg/L	<5	<5	<5	<5	<5	<5	<5	<5
Bentazon	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1



Table B-1
Delamar, Dry Lake, and Cave Valley Monitor and
Test Well Groundwater Chemistry Data
 (Page 3 of 5)

Parameter	Unit	CAV6002X 12/3/2007	180W501M 5/17/2006	180W902M 5/18/2006	181M-1 5/31/2006	181W909M 6/5/2006	182M-1 5/23/2006	182W906M 6/20/2006	209M-1 6/7/2006
BHC (Alpha)	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BHC (Beta)	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BHC (Delta)	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BHC (Gamma) [Lindane]	µg/L	<0.05	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
bis (2-Ethylhexyl) adipate	µg/L	<5	<5	<5	<5	<5	<5	<5	<5
bis (2-Ethylhexyl) phthalate	µg/L	<3	<3	<3	<3	<3	<3	<3	<3
Bromacil	µg/L	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Butachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Butanone (2)	µg/L	<5	<5	<5	<5	<5	<5	<5	<5
Butylbenzene (n)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Butylbenzene (sec)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbaryl	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
Carbofuran	µg/L	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlordane (tech)	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethylvinyl ether (2)	µg/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorothalonil	µg/L	<0.05	<5	<5	<5	<5	<5	<5	<5
Chlorotoluene (2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorotoluene (4)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D (2,4)	µg/L	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dalapon	µg/L	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DB (2,4)	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
DCPA	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
DDD (4,4')	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
DDE (4,4')	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDT (4,4')	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Diazinon	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromo-3-chloropropane (1,2)	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dicamba	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Dichlorobenzene (1,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene (1,3)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene (1,4)(p)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzoic acid (3,5)	µg/L	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloroethane (1,1)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloroethane (1,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloroethene (cis 1,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5



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Parameter	Unit	CAV6002X 12/3/2007	180W501M 5/17/2006	180W902M 5/18/2006	181M-1 5/31/2006	181W909M 6/5/2006	182M-1 5/23/2006	182W906M 6/20/2006	209M-1 6/7/2006
Dichloroethene (1,1)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloroethene (trans 1,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropane (1,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropane (1,3)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropane (2,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropene (1,1)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropene (1,3)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropene (cis 1,3)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropene (trans 1,3)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorprop	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dieldrin	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Di-isopropyl ether	µg/L	<3	<3	<3	<3	<3	<3	<3	<3
Dimethoate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	µg/L	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diquat	µg/L	<4	<4	<4	<4	<4	<4	<4	<4
Endosulfan I	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Endosulfan II	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulfan Sulfate	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endothall	µg/L	<45	<45	<45	<45	<45	<45	<45	<45
Endrin	µg/L	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylene dibromide [EDB]	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Glyphosate	µg/L	<5	<10	<10	<10	<10	<10	<5	<10
Heptachlor	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	µg/L	<0.05	<1	<1	<1	<1	<1	<1	<1
Hexanone (2)	µg/L	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxycarbofuran (3)	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropyltoluene (p)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MBAS	mg/L	<0.05	0.42	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methiocarb	µg/L	<3	<3	<3	<3	<3	<3	<3	<3
Methomyl	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
Methoxychlor	µg/L	<0.05	<10	<10	<10	<10	<10	<10	<10
Methyl Bromide	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Chloride	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl-2-pentanone (4)	µg/L	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Metolachlor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Metribuzin	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molinate	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl tert-butyl ether (MTBE)	µg/L	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5



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Parameter	Unit	CAV6002X 12/3/2007	180W501M 5/17/2006	180W902M 5/18/2006	181M-1 5/31/2006	181W909M 6/5/2006	182M-1 5/23/2006	182W906M 6/20/2006	209M-1 6/7/2006
Oxamyl [vydate]	µg/L	<2	<2	<2	<2	<2	<2	<2	<2
PCB 1016 Aroclor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PCB 1221 Aroclor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PCB 1232 Aroclor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PCB 1242 Aroclor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PCB 1248 Aroclor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PCB 1254 Aroclor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PCB 1260 Aroclor	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PCBs Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	µg/L	<0.6	<1	<1	<1	<1	<1	<1	<1
Prometon	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Prometryn	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Propachlor	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Propylbenzene (n)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silvex	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Simazine	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
T (2,4,5)	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
TCDD (2,3,7,8)[dioxin]	pg/L	<5	<5	<5	<5	<5	<5	<5	<5
tert-amyl Methyl Ether	µg/L	<3	<3	<3	<3	<3	<3	<3	<3
tert-Butyl Ethyl Ether	µg/L	<3	<3	<3	<3	<3	<3	<3	<3
tert-Butylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane (1,1,1,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane (1,1,2,2)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thiobencarb	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	µg/L	<0.5	0.76	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toxaphene	µg/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichloro-1,2,2-trifluoroethane (1,1,2)	µg/L	<5	<10	<10	<10	<10	<10	<10	<10
Trichlorobenzene (1,2,3)[TCB]	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene (1,2,4)[TCB]	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethane (1,1,1)[TCE]	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethane (1,1,2)[TCE]	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	µg/L	<5	<5	<5	<5	<5	<5	<5	<5
Trichloropropane (1,2,3)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trifluralin	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trimethylbenzene (1,2,4)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trimethylbenzene (1,3,5)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (m,p)isometric pair	µg/L	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (o)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

^a Samples were not filtered unless otherwise specified.

^b Sample was filtered through a 0.45 µm filter.

--- Analysis was not performed.