ANNUAL REPORT

COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX A

HYDROLOGIC CONDITION DETERMINATION

FINAL TECHNICAL MEMOMORANDUM 050113.0

2171 E. Francisco Blvd., Suite K • San Rafael, California • 94901
TEL: (415) 457-0701 FAX: (415) 457-1638 e-mail: mollyp@stetsonengineers.com

TO: CWRMA Technical Advisory Committee DATE: May 1, 2013

FROM: Stetson Engineers JOB NO: 2408-1003

RE: Hydrologic Conditions in the Santa Margarita River Watershed for the 2013 Calendar Year

INTRODUCTION

This technical memorandum outlines the process of calculating the hydrologic index (HI) that describes the current hydrologic condition in the Santa Margarita River watershed and subsequently establishes the required flows at the Gorge. Appendix C of the Cooperative Water Resource Management Agreement (CWRMA) was followed in order to determine the Section 5 flow requirements for the period January 1, 2013 through December 31, 2013.

DATA SOURCES

Two sets of observed data are necessary to calculate the HI. The first set includes October through April monthly precipitation from the Wildomar Precipitation Station (Station #246). This information is available through the Riverside County Flood Control and Water Conservation District, courtesy of:

Mr. Robert Laag
ph. # (951) 955-1232,
email: relaag@rcflood.org

Table 1 shows rainfall at the Wildomar Station for October 2012 through April 2013. Riverside County Flood Control and Water Conservation District provided data for October 1, 2012 through April 15, 2013. Review of nearby stations for April 16 through April 30, 2013 revealed that there was zero recorded rainfall during this period.

The second set of observed data used for the calculation of the HI is the streamflow at Temecula Creek near Aguanga. The pertinent period of record from October 2012 through April 2013, as recorded by USGS gage # 11042400, is shown in Table 2. The raw data are available through the USGS database as average daily streamflow in cubic feet per second (cfs) and are classified as provisional. To perform the HI calculation, streamflow was converted to acre-feet by multiplying the daily values by a conversion factor of 1.983 acre-feet/cfs/day.

TABLE 1. MONTHLY PRECIPITATION AT WILDOMAR [INCHES]

Month	Precipitation (in)
Oct-12	0.92
Nov-12	0.50
Dec-12	3.03
Jan-13	1.13
Feb-13	0.75
Mar-13	1.13
Apr-13	*0.03*
Water Year Total	7.49

Source: Riverside County Flood Control and Water Conservation District (April 16, 2013); April value reflects estimate of zero rainfall for April 16-30, 2013.

TABLE 2. DAILY STREAMFLOW AT TEMECULA CREEK NEAR AGUANGA [ACRE-FEET/DAY]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
1	0.5	1.2	3.0	5.4	5.2	5.2	4.0	
2	0.5	1.3	3.2	5.0	5.0	5.2	4.0	
3	0.5	1.3	3.2	4.8	5.0	5.4	3.8	
4	0.6	1.2	3.2	4.8	5.0	5.4	3.4	
5	0.7	1.1	3.0	4.8	5.0	5.4	3.4	
6	0.8	1.3	3.2	4.8	5.0	5.4	3.4	
7	0.8	1.3	3.0	5.0	5.0	5.4	3.4	
8	0.9	1.5	3.0	5.0	5.8	11.1	3.4	
9	0.9	1.8	3.0	4.8	6.4	10.9	3.2	
10	1.0	1.8	3.0	4.8	5.6	9.7	3.0	
11	1.2	1.7	3.0	4.8	5.4	7.9	2.8	
12	1.4	1.7	3.2	4.8	5.2	6.9	2.8	
13	1.3	1.6	4.6	4.8	5.2	6.4	2.8	
14	1.1	1.6	7.5	4.6	5.2	6.0	3.0	
15	1.0	1.6	6.4	4.6	5.0	5.6	3.8	
16	0.9	1.7	6.2	4.6	5.0	5.4	3.8	
17	0.9	1.8	5.4	4.6	5.0	5.4	3.8	
18	0.9	1.9	5.6	4.6	5.0	5.2	3.4	
19	1.1	1.9	6.2	4.4	5.4	5.4	3.0	
20	1.3	1.9	5.4	4.2	8.1	5.2	2.8	
21	1.6	1.9	4.8	4.2	6.4	5.2	2.6	
22	1.6	1.9	4.6	4.2	6.0	5.2	2.4	
23	1.5	1.9	4.6	4.2	5.8	5.0	1.6	
24	1.4	1.8	4.6	4.4	5.8	4.8	2.6	
25	1.4	1.9	4.6	6.2	5.6	4.8	2.8	
26	1.1	1.9	4.6	8.1	5.6	4.6	2.0	
27	1.1	1.9	5.0	6.4	5.4	4.6	1.8	
28	1.0	2.0	4.8	5.8	5.4	4.4	1.6	
29	1.0	2.0	5.0	5.6		4.2	1.4	
30	1.1	2.6	5.8	5.4		4.0	1.2	
31	1.1		6.2	5.2		3.8		
								TOTAL
Total	**32.2**	**50.7**	**137.9**	**153.7**	**152.4**	**178.2**	**86.3**	**791.3**
Mean	1.0	1.7	4.4	5.0	5.4	5.7	2.9	**3.7**
Maximum	1.6	2.6	7.5	8.1	8.1	11.1	4.0	**11.1**
Minimum	0.5	1.1	3.0	4.2	5.0	3.8	1.2	**0.5**

Source: USGS Station #11042400 (http://waterdata.usgs.gov/nwis/dv). Data downloaded 5/1/2013. All data are provisional.

DATA ANALYSIS/PROCEDURE

The HI is defined as the sum of October through April natural streamflow at Murrieta, natural streamflow at Vail Lake, and natural streamflow from the Pauba and Wolf Valleys. Depending on the results of the HI, the hydrologic condition in the Santa Margarita River watershed may be categorized as Critically Dry, Below Normal, Above Normal, or Very Wet.

The natural streamflow at Murrieta is calculated using the rainfall/runoff relationship between precipitation at the Wildomar station and natural streamflow at Murrieta, as determined by the Hydrologic Simulation Program Fortran (HSPF) model. The polynomial relationship is described in equation (1), where Y is the average monthly natural streamflow at Murrieta in cfs

per day, and X is the monthly precipitation in inches at Wildomar. The natural streamflow at Murrieta is converted to volume, in acre-feet, by multiplying the average monthly streamflow by the number of days per month to get the monthly volume of streamflow, then summing the monthly volumes.

$$Y = 9.068 - 34.798 * X + 11.339 * X^2 \quad \text{(Where } X \geq 2.79 \text{ inches)} \qquad (1)$$
$$Y = 0 \quad \text{(Where } X < 2.79 \text{ inches)}$$

The natural streamflow at Vail Lake is a function of the observed streamflow from USGS Gage # 11042400, Temecula Creek at Aguanga. Equation (2) describes the relationship, where S is the monthly observed stream flow at Aguanga from October through April, in acre-feet, and V is the monthly natural October through April stream flow at Vail Lake, also in units of acre-feet.

$$V = 1.38 * S \qquad (2)$$

Equation (3) describes the estimated contributions from Pauba and Wolf Valleys, where V is the October through April stream flow at Vail Lake (equation (2)), and Z is the Pauba and Wolf Valley October through April contribution in units of acre-feet.

$$Z = 0.5 * V \qquad (3)$$

The HI is the sum of the results of Equations (1), (2), and (3): HI = Y + V + Z.

RESULTS

The results of the calculations of the hydrologic index for the 2013 calendar year are summarized in Table 3. According to Figure C-1 in the CWRMA, Critically Dry hydrologic conditions are defined as years in which the HI is less than 3,230 acre-feet. The HI for the 2013 calendar year is 2,113 acre-feet, which falls into the Critically Dry hydrologic category.

The guaranteed flows that must be maintained at the Gorge are established based on the general hydrologic condition of the Santa Margarita River Basin and stipulated in Section 5 of the CWRMA. Guaranteed flows are defined as two-thirds of the median natural flows during the period of record (1931-1996), to be maintained by RCWD at the Gorge. The use of the median value of streamflow eliminates the impact of large storm flows from the requirements at the Gorge. The Actual Flow requirements at the Gorge for 2013 for a Critically Dry year are listed in Table 4.

TABLE 3. HYDROLOGIC INDEX CALCULATIONS
CALENDAR YEAR 2013

Water Year 2013	[1] Precipitation at Wildomar [inch]	[2] Natural Flow at Murrieta [Acre-Feet]	[3] Observed Flow at Aguanga [Acre-Feet]	[4] Calculated Flow at Vail Lake [Acre-Feet]	[5] Estimated Contributions from Pauba and Wolf Valleys [Acre-Feet]	[6] Hydrologic Index [Acre-Feet]
October	0.92	0.0	32.2	44.5	22.2	66.7
November	0.50	0.0	50.7	69.9	35.0	104.9
December	3.03	475.4	137.9	190.2	95.1	760.8
January	1.13	0.0	153.7	212.1	106.1	318.2
February	0.75	0.0	152.3	210.2	105.1	315.3
March	1.13	0.0	178.1	245.8	122.9	368.7
April	0.03	0.0	86.2	119.0	59.5	178.5
Totals	**7.49**	**475.4**	**791.1**	**1,091.8**	**545.9**	**2,113.1**

Notes: [1] Precipitation at Wildomar Station #246 from Riverside County Flood Control and Water Conservation District (April 16, 2013).

[2] If Monthly Precipitation at Wildomar is less than 2.79 inches, the Natural Streamflow at Murrieta is 0 Acre-Feet
Otherwise, Natural Streamflow at Murrieta [Acre-Feet] is = $(9.068-34.798 * [1] + 11.339 * [1]^2) * (86400/43560) * 31$

[3] The sum of provisional daily values from USGS Station #11042400 Temecula Creek near Aguanga

[4] Flow at Vail Lake Estimated to be 1.38 * [3]

[5] Contributions from Pauba and Wolf Valley Estimated to be 50% of Vail Lake Inflow, calculated as 0.5 * [4]

[6] [2]+[4]+[5] = HI

HI Determination
HI ≤ 3,230 ~ Critically Dry
HI ≤ 14,510 ~ Below Normal
HI ≤ 47,810 ~ Above Normal
HI > 47,810 ~ Very Wet

TABLE 4. ACTUAL FLOW REQUIREMENT AT THE GORGE FOR CALENDAR YEAR 2013

Critically Dry Hydrologic Year

Month	2/3 Natural Flow at the Gorge [1] [cfs]	Actual Flow Requirement at the Gorge [cfs]
Jan-Apr	4.5	4.5
May	3.8	3.8
June	3.3	3.3
July	3.0	3.0
August	3.0	3.0
September	3.0	3.0
October	3.0	3.0
November	3.0	3.0
December	3.3	3.3

[1] 2/3 Natural flow at the Gorge is based on the median flow during Critically Dry conditions from 1931 through 1996.

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ANNUAL REPORT

COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX B-1

FEBRUARY 19, 2014 MEMORANDUM FROM STETSON ENGINEERS, INC.

FINAL MEMORANDUM 012014.1

2171 E. Francisco Blvd., Suite K • San Rafael, California • 94901
TEL: (415) 457-0701 FAX: (415) 457-1638 e-mail: mollyp@stetsonengineers.com

TO:	CWRMA Technical Advisory Committee	DATE:	February 19, 2014
FROM:	Stetson Engineers	JOB NO:	2408-1003

RE: Summary of Climatic, CAP, and Groundwater Bank Credits as of December 31, 2013

The purpose of this memorandum is to provide an update to flows and credits stipulated under the Cooperative Water Resource Management Agreement (CWRMA) as of December 31, 2013. Mr. Craig Elitharp of Rancho California Water District (District) provided Stetson Engineers with an updated "Tracking Model" on January 3, 2014, complete with all flows augmented by the District through calendar year 2013. Table 1 summarizes the 2003 through 2013 Hydrologic Conditions, Climatic Credits, CAP Credits, and Groundwater Bank Credits either earned or used by the two parties.

Through December 31, 2013, the District had accumulated 406 AF of Climatic Credit and 0 AF of CAP Credit. The equivalent winter-time flow rate of the credits, based on the 120-day winter period, is 1.7 cfs of Climatic Credit and 0 cfs of CAP Credit. The CWRMA provides for the determination of the next winter's flow requirement and the application of credits in the section that states:

> "In all years following the first winter period… the Minimum Daily Flow Requirement for each winter period shall be 11.5 cfs, less any credit unused in a previous year, and less any credit established by the May 1st accounting of the prior year" **[§5(e)]**.

Applying the Climatic Credit of 1.7 cfs, the Minimum Daily Flow Requirement at the Gorge during the 2014 winter period is determined to be 9.8 cfs. Consistent with previous years, the Minimum Daily Flow Requirement may be adjusted in the future to account for any necessary operational changes that are agreed to by both parties.

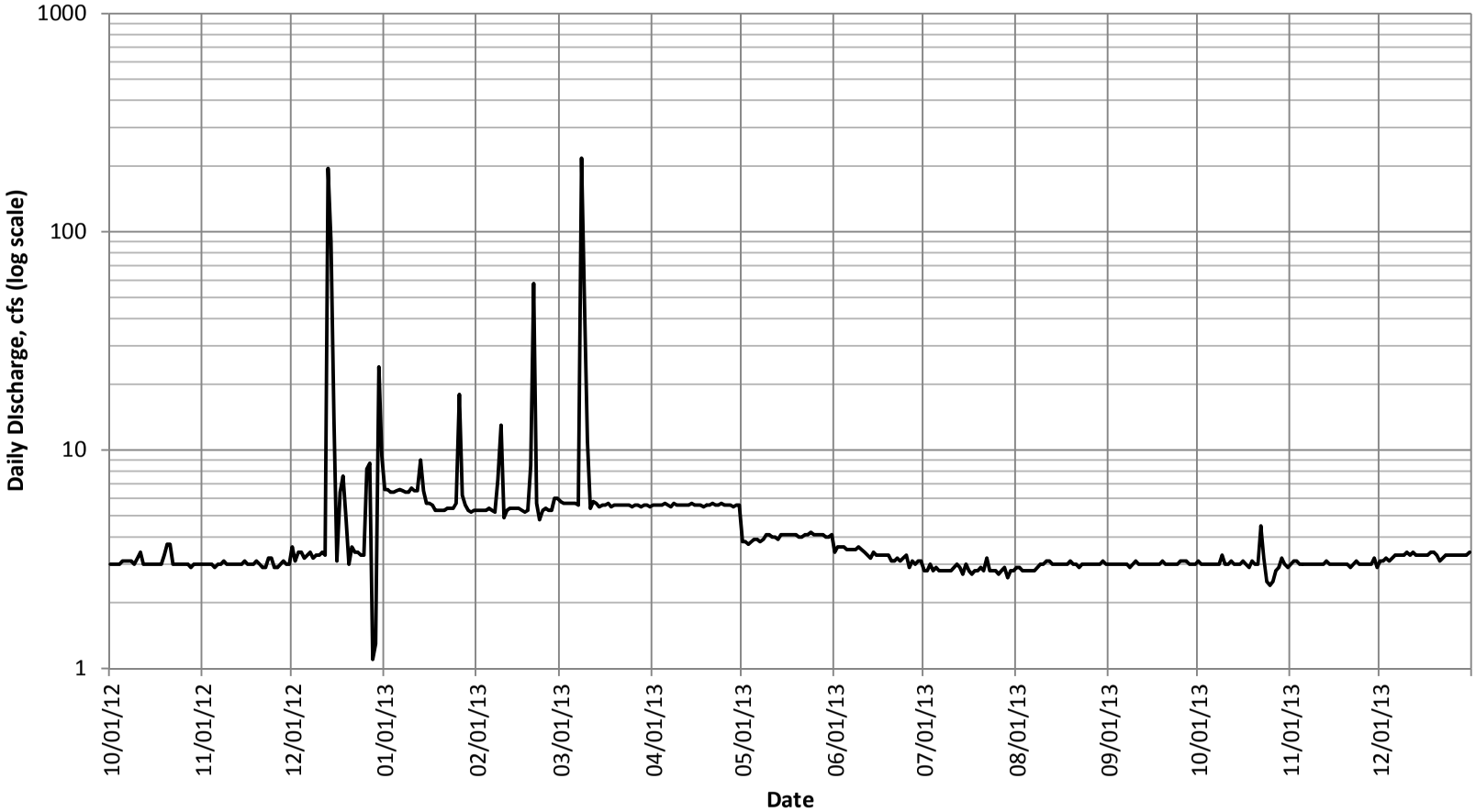
The total releases by the District to meet the Actual Flow Requirement in 2013 were 2,562 AF. In the May 1, 2013 memorandum from Stetson to the Technical Advisory Committee, the Hydrologic Condition for 2013 was determined to be Critically Dry. Camp Pendleton earned 360 AF of Groundwater Bank Credit due to maximum flow requirements stipulated in the CWRMA. The streamflow measured at the Gorge was 3,577 AF during the 2013 calendar year. During this period, total releases by the District accounted for 72% of the total flow measured at the Gorge during the Critically Dry Hydrologic Conditions of 2013. Figure 1 is a hydrograph of the daily flow measured by the USGS at the Gorge (Station 11044000).

TABLE 1. SUMMARY OF CLIMATIC, CAP, AND GROUNDWATER BANK CREDITS THROUGH DECEMBER 31, 2013

Credit	Calendar Year 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Hydrologic Condition	Above Normal	Critically Dry	Very Wet	Below Normal	Critically Dry	Above Normal	Above Normal	Very Wet	Very Wet	Critically Dry	Critically Dry	TBD
Previous Year's Climatic Credit (AF)	0	0	678	0	477	1,212	0	0	0	0	1,248	406
Climatic Credit Used (AF)	0	0	678	0	477	1,212	0	0	0	0	1,248	406
Climatic Credit Earned (AF)	0	678	0	477	1,212	0	0	0	0	1,248	406	n/a
Climatic Credits Remaining (AF)	0	678	0	477	1,212	0	0	0	0	1,248	406	n/a
Previous Year's CAP Credit (AF)	0	1,485	483	397	206	0	432	1,011	397	296	148	0
CAP Credit Used (AF)	0	1,002	483	191	206	0	216	614	397	148	148	0
CAP Credit Earned (AF)	1,485	0	397	0	0	432	795	0	296	0	0	n/a
CAP Credits Remaining (AF)	1,485	483	397	206	0	432	1,011	397	296	148	0	n/a
Previous Year's Groundwater Bank Credit (AF)	0	2,096	2,456	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Groundwater Bank Credit Used (AF)	0	0	0	0	0	0	0	0	0	0	0	n/a
Groundwater Bank Credit Earned (AF)	2,096	360	2,544	0	0	2,087	3,092	5,372	5,275	148	360	n/a
Groundwater Bank Credit Remaining (AF)	2,096	2,456	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5000	n/a
Minimum Required Winter Flow at the Gorge[1] (cfs)	11.5	8.4/7.1	6.6	10.7	8.6	6.4	10.6	8.9	9.8	10.9	5.6	9.8

[1] Required flow converted to a cfs equivalent for a winter period of 120 days. In 2004, from January 1-22, 50% CAP Credit was applied and for the remainder of the winter period 70% of CAP Credit was applied.

Figure 1
Daily Discharge at the Gorge
USGS Gage 11044000 - Santa Margarita River near Temecula
October 2012 - December 2013



Notes:
Values shown are official values approved for publication by the USGS.
CWRMA releases were made to meet flow requirements as measured using the provisional USGS daily website discharge; subsequent rating shifts or adjustments at the gage may increase or decrease the published values when compared to the provisional ones. Daily published and provisional values are given in the Annual Watermaster Report Appendix E.

2013 WINTER-TIME FLOW REQUIREMENT

In December 2012, the Minimum Daily Flow Requirement for 2013 was determined on a preliminary basis to be 6.5 cfs. Starting on January 1, 2013, the District made releases to meet this flow requirement.

In mid-January 2013, a full review of accounting for 2012 was completed. The 2013 Minimum Daily Flow Requirement was computed by subtracting the 2012 Climatic Credit of 1,248 AF and the 2011 Carry-over CAP Credit of 148 AF. The total credit of 1,396 AF is equivalent to a winter-time flow rate of 5.9 cfs[1]. After subtracting 5.9 cfs from 11.5 cfs, the 2013 Minimum Daily Flow Requirement was determined to be 5.6 cfs. Because this flow rate was less than the preliminary requirement of 6.5 cfs, the District made excess releases for 17 days from January 1 - 17, 2013.

To make up for these excess releases, the District and Camp Pendleton agreed to reduce the flow requirement for the remainder of January and for all of February. For January 18 through February 28, the winter-time flow requirement was reduced to 5.3 cfs. This reduction balanced the excess releases made from January 1 - 17. Releases made by the District from January 1 - Feb 28 represent the required volume of releases had the flow requirement of 5.6 cfs been applied throughout the period. In the calculation of Climatic Credit, groundwater bank input, and flow violation days, neither party was penalized for the change in Minimum Daily Flow Requirement; the accounting represents credits and inputs that would have been calculated with a constant Minimum Daily Flow Requirement of 5.6 cfs.

CREDITS, FOREGONE WATER, AND RELEASE SOURCES

Due to Critically Dry Hydrologic Conditions, the District earned Climatic Credit in 2013. Because total releases were less than 4,000 AF in 2013, the District did not earn any new CAP Credit. Camp Pendleton earned input to the Groundwater Bank in 2013, but the balance did not increase since the bank was at its maximum value of 5,000 AF at the beginning of the year.

If Camp Pendleton's Groundwater Bank had not already been at the maximum allowable storage volume, 306 AF would have been credited to the Groundwater Bank due to the District's Actual Flow Maintenance Requirements being less than the flows in the Section 5 table (See CWRMA Art. 17).

In 2013, all releases made by the District were through the MWD raw water source at WR-34.

OPERATIONS

Based on review of the release data, recorded flow at the Gorge, and the Minimum Daily Flow Requirement, 26 AF of excess water was released. Previously termed operational inefficiency, any excess represents a quantity of water released at the Gorge

[1] In Table 2 of this memo, the Climatic and CAP Credits applied for 2013 are shown as cfs-equivalent flow rates in Columns 5 and 6, respectively. Due to rounding, the values shown (5.2 cfs, 0.6 cfs) do not add up to 5.9 cfs. However, the correct credit for 2013 is 5.9 cfs, based on a total credit of 1,396 AF applied to the winter-time period.

greater than required under CWRMA. In previous years, the operational inefficiency has been as high as 220 AF. The excess release of 26 AF in 2013 was less than in most years.

There were no days during 2013 when the Section 5 Flow Requirement was not met. There have been zero flow violation days for the past five years, compared to up to 14 days in prior years.

SUMMARY

Table 2 quantifies the monthly flow releases at the Gorge, credits earned, and credits applied from 2003 through 2013. The District released 2,562 AF of water in 2012 to meet the winter-time Minimum Daily Flow Requirement and the non-winter actual flow requirement for Critically Dry Hydrologic Conditions. Both monthly and daily summaries of CWRMA accounting of flows and credits are given in the attached tables intended for use in the Annual Watermaster Report (Table 11.1 and Appendix E).

For calendar year 2013, the accounting practices in the "Tracking Model" were updated such that rounding was applied to daily values instead of monthly summations. The purpose of this modification was to ensure consistency between values presented in Table 1 and Table 2 and those shown in the Annual Watermaster Report Table 11.1 and Appendix E. The result of this modification is that monthly summations of daily values are based on daily values that have been rounded to the nearest 0.1 AF.

In 2013, Camp Pendleton maintained the maximum amount of water available in its Groundwater Bank; the District accumulated Climatic Credit, but not CAP Credit. Based on Climatic Credit earned in 2013, the 2014 winter-time flow requirement was determined to be 9.8 cfs. The Hydrologic Condition for 2014 will be established on May 1, 2014 following this winter's rainfall events. The hydrologic determination and the amount of water released will establish the Minimum Daily Flow Requirements for May through December and credits earned.

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Table 2.
Monthly Credit Accounting

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2003	AN	17.8	11.5	-	-	2,005.4	0.0		240	0	1,499.5	0.0	0.0
May-03	AN	11.7	11.5			564.8			53	0	12.3	0.0	0.0
Jun-03	AN	9.4	9.4			513.4			34	1	0.0	0.0	0.0
Jul-03	AN	7.8	7.8			498.7			53	0	0.0	0.0	0.0
Aug-03	AN	7.6	7.6			485.0			6	0	0.0	0.0	0.0
Sep-03	AN	7.4	7.4			454.9			25	0	0.0	0.0	0.0
Oct-03	AN	7.7	7.7			465.6			24	0	15.1	15.1	0.0
Nov-03	AN	8.8	8.8			226.2			10	1	255.9	255.9	0.0
Dec-03	AN	10.4	10.4			270.6			-2	0	313.6	313.6	0.0
Calendar Year 2003						**5,484.5**	**0.0**	**1,484.5**	**443**	**2**	**2,096.3**	**584.5**	**0.0**
Winter 2004	CD	4.5	7.3	0.0	4.2	1,299.4	677.7		32	11	360.0	0.0	0.0
May-04	CD	3.8	3.8			205.6			2	0	0.0	0.0	0.0
Jun-04	CD	3.3	3.3			154.5			6	1	0.0	0.0	0.0
Jul-04	CD	3.0	3.0			166.7			4	0	0.0	0.0	0.0
Aug-04	CD	3.0	3.0			184.0			1	0	0.0	0.0	0.0
Sep-04	CD	3.0	3.0			177.4			1	0	0.0	0.0	0.0
Oct-04	CD	3.0	3.0			111.2			10	0	0.0	0.0	0.0
Nov-04	CD	3.0	3.0			103.0			4	0	0.0	0.0	0.0
Dec-04	CD	3.3	3.3			122.8			6	0	0.0	0.0	0.0
Calendar Year 2004						**2,524.6**	**677.7**	**0.0**	**66**	**12**	**360.0**	**0.0**	**0.0**
Winter 2005	VW	24.1	6.62	2.8	2.0	24.0	0.0		-23	5	2,543.7	0.0	0.0
May-05	VW	15.7	11.50			583.8			-1	1	0.0	0.0	0.0
Jun-05	VW	12.2	11.50			666.8			34	1	0.0	0.0	0.0
Jul-05	VW	9.7	9.70			601.9			55	0	0.0	0.0	0.0
Aug-05	VW	9.2	9.20			554.6			6	0	0.0	0.0	0.0
Sep-05	VW	9.4	9.40			543.4			5	0	0.0	0.0	0.0
Oct-05	VW	10.1	10.10			550.7			26	0	0.0	0.0	0.0
Nov-05	VW	11.5	11.50			509.5			-10	3	0.0	111.1	0.0
Dec-05	VW	13.5	11.50			362.2			2	0	0.0	381.2	0.0
Calendar Year 2005						**4,396.9**	**0.0**	**396.9**	**94**	**10**	**2,543.7**	**492.3**	**0.0**

Table 2. (continued)
Monthly Credit Accounting

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2006	BN	8.0	10.7	0.0	0.8	1,990.9	476.5		180	18	0.0	0.0	0.0
May-06	BN	5.7	5.7			320.6			7	0	0.0	0.0	0.0
Jun-06	BN	4.9	4.9			274.9			2	0	0.0	0.0	0.0
Jul-06	BN	4.3	4.3			260.5			2	0	0.0	0.0	0.0
Aug-06	BN	4.4	4.4			256.0			6	0	0.0	0.0	0.0
Sep-06	BN	4.1	4.1			241.1			1	0	0.0	0.0	0.0
Oct-06	BN	3.9	3.9			232.7			5	0	0.0	0.0	0.0
Nov-06	BN	4.5	4.5			235.5			3	1	0.0	0.0	0.0
Dec-06	BN	5.3	5.3			185.0			15	0	0.0	111.1	0.0
Calendar Year 2006						**3,997.2**	**476.5**	**0.0**	**220**	**19**	**0.0**	**111.1**	**0.0**
Winter 2007	CD	4.5	8.6	2.0	0.9	1,882.9	1,212.3		-8	24	0.0	0.0	0.0
May-07	CD	3.8	3.8			249.0			2	0	0.0	0.0	0.0
Jun-07	CD	3.3	3.3			159.4			2	0	0.0	0.0	0.0
Jul-07	CD	3.0	3.0			218.6			2	0	0.0	0.0	0.0
Aug-07	CD	3.0	3.0			208.5			2	0	0.0	0.0	0.0
Sep-07	CD	3.0	3.0			203.6			1	0	0.0	0.0	0.0
Oct-07	CD	3.0	3.0			207.5			1	0	0.0	0.0	0.0
Nov-07	CD	3.0	3.0			196.4			4	0	0.0	0.0	0.0
Dec-07	CD	3.3	3.3			153.8			6	0	0.0	0.0	0.0
Calendar Year 2007						**3,479.7**	**1,212.3**	**0.0**	**11**	**24**	**0.0**	**0.0**	**0.0**
Winter 2008	AN	17.8	6.4	5.1	0.0	999.0	0.0		55	0	1,512.0	0.0	0.0
May-08	AN	11.7	11.5			494.2			-93	0	12.3	0.0	0.0
Jun-08	AN	9.4	9.4			532.4			14	0	0.0	0.0	0.0
Jul-08	AN	7.8	7.8			473.6			15	0	0.0	0.0	0.0
Aug-08	AN	7.6	7.6			480.2			12	0	0.0	0.0	0.0
Sep-08	AN	7.4	7.4			456.5			8	0	0.0	0.0	0.0
Oct-08	AN	7.7	7.7			481.3			6	1	0.0	0.0	0.0
Nov-08	AN	8.8	8.8			407.4			1	1	126.0	126.0	0.0
Dec-08	AN	10.4	10.4			107.0			10	0	436.6	436.6	0.0
Calendar Year 2008						**4,431.7**	**0.0**	**431.7**	**28**	**2**	**2,087.4**	**563.1**	**0.0**

Table 2. (continued)
Monthly Credit Accounting

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2009	AN	17.8	10.6	0.0	0.9	2,145.5	0.0		51	0	1,499.5	0.0	0.0
May-09	AN	11.7	11.5			227.8			17	0	12.3	0.0	0.0
Jun-09	AN	9.4	9.4			709.1			2	0	0.0	0.0	0.0
Jul-09	AN	7.8	7.8			746.0			1	0	0.0	0.0	0.0
Aug-09	AN	7.6	7.6			254.0			7	0	248.1	248.1	0.0
Sep-09	AN	7.4	7.4			186.7			0	0	261.8	261.8	0.0
Oct-09	AN	7.7	7.7			202.6			0	0	289.0	289.0	0.0
Nov-09	AN	8.8	8.8			189.3			0	0	345.1	345.1	0.0
Dec-09	AN	10.4	10.4			133.7			1	0	436.6	436.6	0.0
Calendar Year 2009						**4,794.6**	**0.0**	**794.6**	**79**	**0**	**3,092.4**	**1,580.6**	**0.0**
Winter 2010	VW	24.1	8.9	0.0	2.6	1,201.9	0.0		-59	0	2,999.0	0.0	0.0
May-10	VW	15.7	11.5			417.0			20	0	258.2	0.0	0.0
Jun-10	VW	12.2	11.5			667.9			2	0	41.7	0.0	0.0
Jul-10	VW	9.7	9.7			488.7			7	0	160.7	160.7	0.0
Aug-10	VW	9.2	9.2			290.3			0	0	295.1	295.1	0.0
Sep-10	VW	9.4	9.4			278.7			0	0	315.4	315.4	0.0
Oct-10	VW	10.1	10.1			243.0			4	0	381.2	381.2	0.0
Nov-10	VW	11.5	11.5			195.7			-53	0	416.5	416.5	0.0
Dec-10	VW	13.5	11.5			191.0			4	0	504.2	504.2	0.0
Calendar Year 2010						**3,974.2**	**0.0**	**0.0**	**-73**	**0**	**5,372.0**	**2,073.1**	**0.0**
Winter 2011	VW	24.1	9.8	0.0	1.7	1,115.9	0.0		26	0	2,999.0	0.0	0.0
May-11	VW	15.7	11.5			652.1			1	0	258.2	0.0	0.0
Jun-11	VW	12.2	11.5			688.4			0	0	41.7	0.0	0.0
Jul-11	VW	9.7	9.7			607.5			22	0	64.3	64.3	0.0
Aug-11	VW	9.2	9.2			277.9			6	0	295.0	295.1	0.0
Sep-11	VW	9.4	9.4			318.8			25	0	315.4	315.4	0.0
Oct-11	VW	10.1	10.1			243.6			12	0	381.2	381.2	0.0
Nov-11	VW	11.5	11.5			142.3			-42	0	416.5	416.5	0.0
Dec-11	VW	13.5	11.5			249.1			7	0	504.2	504.2	0.0
Calendar Year 2011						**4,295.6**	**0.0**	**295.6**	**57**	**0**	**5,275.5**	**1,976.0**	**0.0**

Table 2. (continued)
Monthly Credit Accounting

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2012	CD	4.5	10.9	0.0	0.6	1,848.0	1,247.8		115	0	147.8	0.0	0.0
May-12	CD	3.8	3.8			285.2			2	0	0.0	0.0	0.0
Jun-12	CD	3.3	3.3			314.4			0	0	0.0	0.0	0.0
Jul-12	CD	3.0	3.0			178.0			6	0	0.0	0.0	0.0
Aug-12	CD	3.0	3.0			179.1			1	0	0.0	0.0	0.0
Sep-12	CD	3.0	3.0			180.6			0	0	0.0	0.0	0.0
Oct-12	CD	3.0	3.0			178.1			5	0	0.0	0.0	0.0
Nov-12	CD	3.0	3.0			163.6			1	0	0.0	0.0	0.0
Dec-12	CD	3.3	3.3			107.3			-2	0	0.0	0.0	0.0
Calendar Year 2012						**3,434.3**	**1,247.8**	**0.0**	**128**	**0**	**147.8**	**0.0**	**0.0**
Winter 2013	CD	4.5	5.6	5.2	0.6	1,083.6	406.1		20.4	0	360.0	0.0	0.0
May-13	CD	3.8	3.8			220.7			0.6	0	0.0	0.0	0.0
Jun-13	CD	3.3	3.3			186.3			1.0	0	0.0	0.0	0.0
Jul-13	CD	3.0	3.0			167.7			1.6	0	0.0	0.0	0.0
Aug-13	CD	3.0	3.0			184.9			0.6	0	0.0	0.0	0.0
Sep-13	CD	3.0	3.0			185.5			0.8	0	0.0	0.0	0.0
Oct-13	CD	3.0	3.0			161.3			0.1	0	0.0	0.0	0.0
Nov-13	CD	3.0	3.0			170.5			0.8	0	0.0	0.0	0.0
Dec-13	CD	3.3	3.3			201.2			0.4	0	0.0	0.0	0.0
Calendar Year 2013						**2,561.7**	**406.1**	**0.0**	**26.3**	**0**	**360.0**	**0.0**	**0.0**
								Total Groundwater Bank =			**5,000**		
Initial Conditions for Winter 2014	**TBD**	**TBD**	**9.8**		**-**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**5,000**	**TBD**	**TBD**

Table 2. (continued)
Monthly Credit Accounting
LEGEND

Column	Description
(1) Month	Winter period (Jan-April), Non-Winter period (May-Dec)
(2) Hydrologic Index	Hydrologic Index as determined on May 1st: CD (Critically Dry), BN (Below Normal), AN (Above Normal), VW (Very Wet)
(3) Table 5 Flow Requirement	Table 5 Flow Requirement for the winter and non-winter period detemined after May 1st
(4) Section 5 Flow Requirement	Section 5 Flow Requirement (or Minimum Flow Requirement) for the winter period before May 1st *Winter Section 5 Flow Requirement* = 11.5 - Climatic Credit Applied - CAP Credit Applied *Non-Winter Section 5 Flow Requirement* = the minimum of 11.5 and the Table 5 Flow Requirement The 2013 Minimum Daily Flow Requirement was computed based on credits equal to 1,396 AF. The total credit of 1,396 AF was converted to an equivalent winter-time flow rate in cfs (5.9 cfs), which was then subtracted from 11.5 cfs for a Minimum Daily Flow Requirement of 5.6 cfs. In the Calendar Year 2013 section of this table, the cfs-equivalent flow rates for Climatic Credit (5.2 cfs, Column 5) and CAP Credit (0.6 cfs, Column 6) do not add up to 5.9 cfs due to rounding.
(5) Climatic Credit Applied	Sum of the daily Climatic Credits Applied in the winter of the calendar year.
(6) CAP Credit Applied	Sum of the daily CAP Credits Applied in the winter of the calendar year.
(7) Augmentation at WR-34	Augmentation at WR-34 by the District. Note that Augmentation is never greater than the daily WEB flows at Gorge.
(8) Climatic Credit Earned	Sum of the daily Climatic Credits earned in the winter of a BN or CD year, as calculated after May 1st.
(9) CAP Credit Earned	CAP Credit earned on years when > 4,000 AF of Augmentation, as calculated at the end of the year.
(10) Operations Data	Operations Data is a measure of operational efficiecny calculated as the sum of all daily shortages and daily excess.
(11) Section 5 Flow Violation	Section 5 flow violation is the number of days when the 10-day running average is less than the Minimum Flow Requirement.
(12) Groundwater Bank	Groundwater Bank = 2/3 Natural Flow at Gorge (Section 5 Table) – Actual Flow Requirement as determined on May 1st – emergency flow deliveries requested by Camp Pendleton. The Actual Flow Requirement reveals the flow that the District would have released during the winter period if the Hydrologic Index was known at the beginning of the year.
(13) Foregone Make-Up Water	Camp Pendleton may acquire rights to groundwater above the Gorge by foregoing its right to Make-up Water from the District. Camp Pendleton took action on October 23, 2003 to reduce the impact of the CAP Credit by requesting the District to reduce flow Augmentation at the Gorge from AN to BN conditions. Camp Pendleton took action on November 23, 2005 to reduce the impact of the CAP Credit by requesting the District to reduce flow Augmentation at the Gorge from VW to BN conditions. Camp Pendleton took action on December 4, 2006 to reduce the impact of the CAP Credit by requesting the District to reduce flow Augmentation at the Gorge from BN to CD conditions. Camp Pendleton took action on November 20, 2008 to reduce the impact of the CAP Credit by requesting the District to reduce flow Augmentation at the Gorge from AN to CD conditions. Camp Pendleton took action on August 1, 2009 to reduce the impact of the CAP Credit by requesting the District to reduce flow Augmentation at the Gorge from AN to CD conditions. Camp Pendleton took action on July 16, 2010 to reduce the impact of the CAP Credit by requesting the District to reduce flow Augmentation at the Gorge from VW to BN conditions. Camp Pendleton took action on July 25, 2011 to reduce the impact of the CAP Credit by requesting the District to reduce flow Augmentation at the Gorge from VW to BN conditions.
(14) Emergency Flows	Emergency flows may be called upon by the Commanding General of Camp Pendelton when there is a water supply emergency.

ATTACHMENTS FOR ANNUAL WATERMASTER REPORT

TABLE 11.1

SANTA MARGARITA RIVER WATERSHED: MONTHLY SUMMARY OF REQUIRED FLOWS, DISCHARGES, CREDITS AND ACCOUNTS

APPENDIX E

SANTA MARGARITA RIVER WATERSHED: COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS SANTA MARGARITA RIVER NEAR TEMECULA (JANUARY - DECEMBER 2013)

TABLE 11.1

SANTA MARGARITA RIVER WATERSHED

MONTHLY SUMMARY OF REQUIRED FLOWS,
DISCHARGES, CREDITS AND ACCOUNTS
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

2013 CALENDAR YEAR - CRITICALLY DRY YEAR

Month	USGS Official Discharge AF	USGS Website Daily Discharge AF	Minimum Flow Maintenance Requirement cfs /1, 2	Section 5 Flows cfs /3	No. of Days 10-day Running Average is Less than Required Flow	Discharge from WR-34 AF /4	Climatic Credits Earned AF /5	Camp Pendleton Groundwater Bank /6 Input AF	Camp Pendleton Groundwater Bank /6 Cumulative Balance AF
Jan	395.3	395.3	6.5/5.3	4.5	0	291.9	116.0	93.0	5,000.0
Feb	427.0	427.8	5.3	4.5	0	215.0	63.4	84.0	5,000.0
Mar	857.3	857.3	5.6	4.5	0	266.6	96.6	93.0	5,000.0
Apr	333.6	333.6	5.6	4.5	0	310.1	130.1	90.0	5,000.0
May	246.3	234.2	3.8	3.8	0	220.7	0.0	0.0	5,000.0
Jun	197.0	197.4	3.3	3.3	0	186.3	0.0	0.0	5,000.0
Jul	174.1	186.0	3.0	3.0	0	167.7	0.0	0.0	5,000.0
Aug	182.5	185.1	3.0	3.0	0	184.9	0.0	0.0	5,000.0
Sep	179.3	179.3	3.0	3.0	0	185.5	0.0	0.0	5,000.0
Oct	185.5	185.9	3.0	3.0	0	161.3	0.0	0.0	5,000.0
Nov	179.3	179.3	3.0	3.0	0	170.5	0.0	0.0	5,000.0
Dec	201.7	203.3	3.3	3.3	0	201.2	0.0	0.0	5,000.0
CALENDAR YEAR TOTAL	**3,558.9**	**3,564.5**			**0**	**2,561.7**	**406.1**	**360.0**	**FULL**

1 - Required flows for January through April are equal to 11.5 cfs less 5.9 cfs of credits (1,248 AF of Climatic Credit earned in 2012 and 148 AF CAP Credit carried over from 2011).
2 - In December 2012, the preliminary winter-time flow requirement for 2013 was calculated as 6.5 cfs; in January 2013, the final winter-time requirement was computed as 5.6 cfs. To make up for excess releases made by the District between January 1-17, 2013, the winter-time flow requirement was reduced from 5.6 cfs to 5.3 cfs for January 18 - February 28.
3 - The Table in Section 5 of the CWRMA sets forth guaranteed monthly flows at the Gorge once the Hydrologic Condition for the calendar year is established
4 - CAP Credits equal the WR-34 discharge in excess of 4,000 AF. No CAP Credits earned in 2013.
5 - Climatic Credits equal the WR-34 discharges less actual Flow Requirements, which is the flow indicated in Section 5 of the CWRMA less applicable credits but not less than 3.0 cfs.
6 - Camp Pendleton's rights to groundwater equal the flow indicated in Section 5 of the CWRMA less the Actual Flow Maintenance Requirement, which cannot be less than 3.0 cfs. Input to the groundwater bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

JANUARY 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1, 2	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /3		Input /4	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	6.6	6.6				4.4	8.8	1.4	2.8	1.5	3.0	0.0	0.0	5,000.0
2	6.6	6.6				5.7	11.3	2.7	5.3	1.5	3.0	0.0	0.0	5,000.0
3	6.4	6.4				5.5	11.0	2.5	5.0	1.5	3.0	0.0	0.0	5,000.0
4	6.4	6.4				5.5	11.0	2.5	5.0	1.5	3.0	0.0	0.0	5,000.0
5	6.5	6.5				5.7	11.3	2.7	5.3	1.5	3.0	0.0	0.0	5,000.0
6	6.6	6.6				5.8	11.5	2.8	5.5	1.5	3.0	0.0	0.0	5,000.0
7	6.5	6.5				5.5	11.0	2.5	5.0	1.5	3.0	0.0	0.0	5,000.0
8	6.4	6.4				5.5	11.0	2.5	5.0	1.5	3.0	0.0	0.0	5,000.0
9	6.4	6.4				5.6	11.2	2.6	5.2	1.5	3.0	0.0	0.0	5,000.0
10	6.7	6.7				5.8	11.5	2.8	5.5	1.5	3.0	0.0	0.0	5,000.0
11	6.5	6.5	6.5	6.5	0.0	5.7	11.4	2.7	5.4	1.5	3.0	0.0	0.0	5,000.0
12	6.5	6.5	6.5	6.5	0.0	5.7	11.3	2.7	5.3	1.5	3.0	0.0	0.0	5,000.0
13	9.0	9.0	6.8	6.5	0.3	5.8	11.5	2.8	5.5	1.5	3.0	0.0	0.0	5,000.0
14	6.5	6.5	6.8	6.5	0.3	5.6	11.1	2.6	5.1	1.5	3.0	0.0	0.0	5,000.0
15	5.7	5.7	6.7	6.5	0.2	5.1	10.1	2.1	4.1	1.5	3.0	0.0	0.0	5,000.0
16	5.7	5.7	6.6	6.5	0.1	5.0	10.0	2.0	4.0	1.5	3.0	0.0	0.0	5,000.0
17	5.6	5.6	6.5	6.5	0.0	4.9	9.8	1.9	3.8	1.5	3.0	0.0	0.0	5,000.0
18	5.3	5.3	6.4	5.3	1.1	4.7	9.4	1.7	3.4	1.5	3.0	0.0	0.0	5,000.0
19	5.3	5.3	6.3	5.3	1.0	4.7	9.3	1.7	3.3	1.5	3.0	0.0	0.0	5,000.0
20	5.3	5.3	6.1	5.3	0.8	4.7	9.3	1.7	3.3	1.5	3.0	0.0	0.0	5,000.0
21	5.3	5.3	6.0	5.3	0.7	4.7	9.4	1.7	3.4	1.5	3.0	0.0	0.0	5,000.0
22	5.4	5.4	5.9	5.3	0.6	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
23	5.4	5.4	5.6	5.3	0.3	4.7	9.4	1.7	3.4	1.5	3.0	0.0	0.0	5,000.0
24	5.4	5.4	5.4	5.3	0.1	4.6	9.2	1.6	3.2	1.5	3.0	0.0	0.0	5,000.0
25	5.7	5.7	5.4	5.3	0.1	4.4	8.7	1.4	2.7	1.5	3.0	0.0	0.0	5,000.0
26	18.0	18.0	6.7	5.3	1.4	1.3	2.5	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
27	6.2	6.2	6.7	5.3	1.4	0.0	0.0	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
28	5.6	5.6	6.8	5.3	1.5	2.7	5.4	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
29	5.3	5.3	6.8	5.3	1.5	4.0	7.9	1.0	1.9	1.5	3.0	0.0	0.0	5,000.0
30	5.2	5.2	6.8	5.3	1.5	4.2	8.4	1.2	2.4	1.5	3.0	0.0	0.0	5,000.0
31	5.3	5.3	6.8	5.3	1.5	4.4	8.7	1.4	2.7	1.5	3.0	0.0	0.0	5,000.0
TOTAL SFD	199.3	199.3	134.1	119.7	14.4	146.7		58.7		46.5		0.0		
TOTAL AF	395.3	395.3	266.0	237.4	28.6		291.9		116.0		93.0		0.0	5,000.0

1 - Required flows for January through April are equal to 11.5 cfs less 5.9 cfs of credits (1,248 AF of Climatic Credit earned in 2012 and 148 AF CAP Credit carried over from 2011).
2 - In December 2012, the preliminary winter-time flow requirement for 2013 was calculated as 6.5 cfs; in January 2013, the final winter-time requirement was computed at 5.6 cfs. To make up for excess releases made by the District between January 1-17, 2013, the winter-time flow requirement was reduced from 5.6 cfs to 5.3 cfs for Jan 18 - Feb 28.
3 - Climatic Credits equal the WR-34 discharge less the Actual Flow Maintenance Requirement which is the flow indicated in Section 5 of the CWRMA less applicable credits, but not less than 3.0 cfs.
4 - Art. 17 - Camp Pendleton rights to groundwater equal the flow indicated in Section 5 of the CWRMA minus the Actual Flow Maintenance Requirement which cannot be less than 3.0 cfs. Input to groundwater bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

FEBRUARY 2013 - CRITICALLY DRY YEAR

Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1, 2	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /3		CAMP PENDLETON GROUNDWATER BANK Input /4	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	5.3	5.3	6.7	5.3	1.4	4.5	9.0	1.5	3.0	1.5	3.0	0.0	0.0	5,000.0
2	5.3	5.3	6.7	5.3	1.4	4.5	9.0	1.5	3.0	1.5	3.0	0.0	0.0	5,000.0
3	5.3	5.3	6.7	5.3	1.4	4.5	8.9	1.5	2.9	1.5	3.0	0.0	0.0	5,000.0
4	5.3	5.3	6.7	5.3	1.4	4.6	9.1	1.6	3.1	1.5	3.0	0.0	0.0	5,000.0
5	5.4	5.4	5.4	5.3	0.1	4.6	9.2	1.6	3.2	1.5	3.0	0.0	0.0	5,000.0
6	5.3	5.3	5.3	5.3	0.0	4.5	9.0	1.5	3.0	1.5	3.0	0.0	0.0	5,000.0
7	5.2	5.2	5.3	5.3	0.0	4.5	8.9	1.5	2.9	1.5	3.0	0.0	0.0	5,000.0
8	7.3	7.3	5.5	5.3	0.2	2.9	5.7	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
9	13.0	13.0	6.3	5.3	1.0	1.3	2.6	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
10	4.9	4.9	6.2	5.3	0.9	1.9	3.7	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
11	5.3	5.3	6.2	5.3	0.9	3.8	7.6	0.8	1.6	1.5	3.0	0.0	0.0	5,000.0
12	5.4	5.4	6.2	5.3	0.9	4.1	8.1	1.1	2.1	1.5	3.0	0.0	0.0	5,000.0
13	5.4	5.4	6.3	5.3	1.0	4.2	8.3	1.2	2.3	1.5	3.0	0.0	0.0	5,000.0
14	5.4	5.4	6.3	5.3	1.0	4.3	8.5	1.3	2.5	1.5	3.0	0.0	0.0	5,000.0
15	5.4	5.4	6.3	5.3	1.0	4.3	8.5	1.3	2.5	1.5	3.0	0.0	0.0	5,000.0
16	5.3	5.3	6.3	5.3	1.0	4.3	8.5	1.3	2.5	1.5	3.0	0.0	0.0	5,000.0
17	5.2	5.2	6.3	5.3	1.0	4.4	8.7	1.4	2.7	1.5	3.0	0.0	0.0	5,000.0
18	5.3	5.3	6.1	5.3	0.8	4.5	8.9	1.5	2.9	1.5	3.0	0.0	0.0	5,000.0
19	8.5	8.5	5.6	5.3	0.3	4.5	9.0	1.5	3.0	1.5	3.0	0.0	0.0	5,000.0
20	58.0	58.0	10.9	5.3	5.6	1.2	2.3	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
21	5.7	5.8	11.0	5.3	5.7	0.0	0.0	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
22	4.8	4.9	10.9	5.3	5.6	2.7	5.3	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
23	5.3	5.3	10.9	5.3	5.6	4.2	8.4	1.2	2.4	1.5	3.0	0.0	0.0	5,000.0
24	5.4	5.4	10.9	5.3	5.6	4.5	8.9	1.5	2.9	1.5	3.0	0.0	0.0	5,000.0
25	5.3	5.3	10.9	5.3	5.6	4.5	8.9	1.5	2.9	1.5	3.0	0.0	0.0	5,000.0
26	5.3	5.3	10.9	5.3	5.6	4.5	9.0	1.5	3.0	1.5	3.0	0.0	0.0	5,000.0
27	6.0	6.1	11.0	5.3	5.7	5.3	10.5	2.3	4.5	1.5	3.0	0.0	0.0	5,000.0
28	6.0	6.1	11.1	5.3	5.8	5.3	10.5	2.3	4.5	1.5	3.0	0.0	0.0	5,000.0
TOTAL SFD	215.3	215.7	214.9	148.4	66.5	108.4		32.4		42.0		0.0		
TOTAL AF	427.0	427.8	426.2	294.3	131.9		215.0		63.4		84.0		0.0	5,000.0

1 - Required flows for January through April are equal to 11.5 cfs less 5.9 cfs of credits (1,248 AF of Climatic Credit earned in 2012 and 148 AF CAP Credit carried over from 2011).
2 - In December 2012, the preliminary winter-time flow requirement for 2013 was calculated as 6.5 cfs; in January 2013, the final winter-time requirement was computed at 5.6 cfs. To make up for excess releases made by the District between January 1-17, 2013, the winter-time flow requirement was reduced from 5.6 cfs to 5.3 cfs for Jan 18 - Feb 28.
3 - Climatic Credits equal the WR-34 discharge less the Actual Flow Maintenance Requirement which is the flow indicated in Section 5 of the CWRMA less applicable credits, but not less than 3.0 cfs.
4 - Art. 17 - Camp Pendleton rights to groundwater equal the flow indicated in Section 5 of the CWRMA minus the Actual Flow Maintenance Requirement which cannot be less than 3.0 cfs. Input to groundwater bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

MARCH 2013 - CRITICALLY DRY YEAR

Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		CAMP PENDLETON GROUNDWATER BANK Input /3	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	5.8	5.8	10.8	5.6	5.2	5.1	10.1	2.1	4.1	1.5	3.0	0.0	0.0	5,000.0
2	5.7	5.7	5.6	5.6	0.0	5.0	10.0	2.0	4.0	1.5	3.0	0.0	0.0	5,000.0
3	5.7	5.7	5.6	5.6	0.0	5.0	9.9	2.0	3.9	1.5	3.0	0.0	0.0	5,000.0
4	5.7	5.7	5.6	5.6	0.0	4.9	9.8	1.9	3.8	1.5	3.0	0.0	0.0	5,000.0
5	5.7	5.7	5.7	5.6	0.1	4.9	9.7	1.9	3.7	1.5	3.0	0.0	0.0	5,000.0
6	5.7	5.7	5.7	5.6	0.1	4.9	9.7	1.9	3.7	1.5	3.0	0.0	0.0	5,000.0
7	5.6	5.6	5.7	5.6	0.1	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
8	217.0	217.0	26.9	5.6	21.3	1.5	2.9	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
9	47.0	47.0	31.0	5.6	25.4	0.0	0.0	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
10	11.0	11.0	31.5	5.6	25.9	0.0	0.0	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
11	5.4	5.4	31.5	5.6	25.9	2.6	5.1	0.0	0.0	1.5	3.0	0.0	0.0	5,000.0
12	5.8	5.8	31.5	5.6	25.9	4.2	8.3	1.2	2.3	1.5	3.0	0.0	0.0	5,000.0
13	5.7	5.7	31.5	5.6	25.9	4.5	9.0	1.5	3.0	1.5	3.0	0.0	0.0	5,000.0
14	5.5	5.5	31.4	5.6	25.8	4.6	9.1	1.6	3.1	1.5	3.0	0.0	0.0	5,000.0
15	5.6	5.6	31.4	5.6	25.8	4.7	9.3	1.7	3.3	1.5	3.0	0.0	0.0	5,000.0
16	5.6	5.6	31.4	5.6	25.8	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
17	5.7	5.7	31.4	5.6	25.8	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
18	5.5	5.5	10.3	5.6	4.7	4.7	9.4	1.7	3.4	1.5	3.0	0.0	0.0	5,000.0
19	5.6	5.6	6.1	5.6	0.5	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
20	5.6	5.6	5.6	5.6	0.0	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
21	5.6	5.6	5.6	5.6	0.0	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
22	5.6	5.6	5.6	5.6	0.0	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
23	5.6	5.6	5.6	5.6	0.0	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
24	5.6	5.6	5.6	5.6	0.0	4.8	9.5	1.8	3.5	1.5	3.0	0.0	0.0	5,000.0
25	5.5	5.5	5.6	5.6	0.0	4.8	9.6	1.8	3.6	1.5	3.0	0.0	0.0	5,000.0
26	5.6	5.6	5.6	5.6	0.0	4.9	9.8	1.9	3.8	1.5	3.0	0.0	0.0	5,000.0
27	5.6	5.6	5.6	5.6	0.0	4.9	9.8	1.9	3.8	1.5	3.0	0.0	0.0	5,000.0
28	5.5	5.5	5.6	5.6	0.0	4.9	9.8	1.9	3.8	1.5	3.0	0.0	0.0	5,000.0
29	5.6	5.6	5.6	5.6	0.0	5.0	10.0	2.0	4.0	1.5	3.0	0.0	0.0	5,000.0
30	5.6	5.6	5.6	5.6	0.0	5.0	9.9	2.0	3.9	1.5	3.0	0.0	0.0	5,000.0
31	5.5	5.5	5.6	5.6	0.0	5.0	9.9	2.0	3.9	1.5	3.0	0.0	0.0	5,000.0
TOTAL SFD	432.2	432.2	437.8	173.6	264.2	134.3		49.2		46.5		0.0		
TOTAL AF	857.3	857.3	868.4	344.3	524.0		266.6		96.6		93.0		0.0	5,000.0

1 - Required flows for January through April are equal to 11.5 cfs less 5.9 cfs of credits (1,248 AF of Climatic Credit earned in 2012 and 148 AF CAP Credit carried over from 2011).
2 - Climatic Credits equal the WR-34 discharge less the Actual Flow Maintenance Requirement which is the flow indicated in Section 5 of the CWRMA less applicable credits, but not less than 3.0 cfs.
3 - Art. 17 - Camp Pendleton rights to groundwater equal the flow indicated in Section 5 of the CWRMA minus the Actual Flow Maintenance Requirement which cannot be less than 3.0 cfs. Input to groundwater bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

APRIL 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input /3	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	5.6	5.6	5.6	5.6	0.0	5.1	10.1	2.1	4.1	1.5	3.0	0.0	0.0	5,000.0
2	5.6	5.6	5.6	5.6	0.0	5.1	10.2	2.1	4.2	1.5	3.0	0.0	0.0	5,000.0
3	5.6	5.6	5.6	5.6	0.0	5.1	10.1	2.1	4.1	1.5	3.0	0.0	0.0	5,000.0
4	5.6	5.6	5.6	5.6	0.0	5.1	10.2	2.1	4.2	1.5	3.0	0.0	0.0	5,000.0
5	5.7	5.7	5.6	5.6	0.0	5.2	10.4	2.2	4.4	1.5	3.0	0.0	0.0	5,000.0
6	5.6	5.6	5.6	5.6	0.0	5.1	10.1	2.1	4.1	1.5	3.0	0.0	0.0	5,000.0
7	5.5	5.5	5.6	5.6	0.0	5.1	10.1	2.1	4.1	1.5	3.0	0.0	0.0	5,000.0
8	5.7	5.7	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
9	5.6	5.6	5.6	5.6	0.0	5.1	10.2	2.1	4.2	1.5	3.0	0.0	0.0	5,000.0
10	5.6	5.6	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
11	5.6	5.6	5.6	5.6	0.0	5.2	10.4	2.2	4.4	1.5	3.0	0.0	0.0	5,000.0
12	5.6	5.6	5.6	5.6	0.0	5.2	10.4	2.2	4.4	1.5	3.0	0.0	0.0	5,000.0
13	5.6	5.6	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
14	5.7	5.7	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
15	5.6	5.6	5.6	5.6	0.0	5.1	10.2	2.1	4.2	1.5	3.0	0.0	0.0	5,000.0
16	5.6	5.6	5.6	5.6	0.0	5.1	10.2	2.1	4.2	1.5	3.0	0.0	0.0	5,000.0
17	5.6	5.6	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
18	5.5	5.5	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
19	5.6	5.6	5.6	5.6	0.0	5.3	10.6	2.3	4.6	1.5	3.0	0.0	0.0	5,000.0
20	5.6	5.6	5.6	5.6	0.0	5.4	10.7	2.4	4.7	1.5	3.0	0.0	0.0	5,000.0
21	5.7	5.7	5.6	5.6	0.0	5.4	10.7	2.4	4.7	1.5	3.0	0.0	0.0	5,000.0
22	5.6	5.6	5.6	5.6	0.0	5.3	10.5	2.3	4.5	1.5	3.0	0.0	0.0	5,000.0
23	5.6	5.6	5.6	5.6	0.0	5.3	10.6	2.3	4.6	1.5	3.0	0.0	0.0	5,000.0
24	5.7	5.7	5.6	5.6	0.0	5.3	10.5	2.3	4.5	1.5	3.0	0.0	0.0	5,000.0
25	5.6	5.6	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
26	5.6	5.6	5.6	5.6	0.0	5.2	10.4	2.2	4.4	1.5	3.0	0.0	0.0	5,000.0
27	5.6	5.6	5.6	5.6	0.0	5.2	10.4	2.2	4.4	1.5	3.0	0.0	0.0	5,000.0
28	5.5	5.5	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
29	5.6	5.6	5.6	5.6	0.0	5.2	10.4	2.2	4.4	1.5	3.0	0.0	0.0	5,000.0
30	5.6	5.6	5.6	5.6	0.0	5.2	10.3	2.2	4.3	1.5	3.0	0.0	0.0	5,000.0
TOTAL SFD	168.2	168.2	168.0	168.0	0.0	155.9		65.9		45.0		0.0		
TOTAL AF	333.6	333.6	333.2	333.2	0.0		310.1		130.1		90.0		0.0	5,000.0

1 - Required flows for January through April are equal to 11.5 cfs less 5.9 cfs of credits (1,248 AF of Climatic Credit earned in 2012 and 148 AF CAP Credit carried over from 2011).
2 - Climatic Credits equal the WR-34 discharge less the Actual Flow Maintenance Requirement which is the flow indicated in Section 5 of the CWRMA less applicable credits, but not less than 3.0 cfs.
3 - Art. 17 - Camp Pendleton rights to groundwater equal the flow indicated in Section 5 of the CWRMA minus the Actual Flow Maintenance Requirement which cannot be less than 3.0 cfs. Input to groundwater account bank but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

MAY 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	3.8	3.8				3.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	3.8	3.8				3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	3.7	3.7				3.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	3.8	3.8				3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	3.9	3.9				3.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	3.9	3.9				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	3.8	3.6				3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	3.9	3.7				3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	4.1	3.9				3.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	4.1	3.8				3.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	4.0	3.8	3.8	3.8	0.0	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	4.0	3.8	3.8	3.8	0.0	3.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	3.9	3.7	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	4.1	3.9	3.8	3.8	0.0	3.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	4.1	3.8	3.8	3.8	0.0	3.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	4.1	3.8	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	4.1	3.8	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	4.1	3.8	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	4.1	3.9	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	4.0	3.8	3.8	3.8	0.0	3.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	4.0	3.8	3.8	3.8	0.0	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	4.1	3.8	3.8	3.8	0.0	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	4.1	3.9	3.8	3.8	0.0	3.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	4.2	3.9	3.8	3.8	0.0	3.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	4.1	3.8	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	4.1	3.8	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	4.1	3.8	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	4.1	3.9	3.8	3.8	0.0	3.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	4.0	3.8	3.8	3.8	0.0	3.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	4.0	3.7	3.8	3.8	0.0	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
31	4.1	3.9	3.8	3.8	0.0	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	124.2	118.1	79.8	79.8	0.0	111.3		0.0		0.0		0.0		
TOTAL AF	246.3	234.2	158.3	158.3	0.0		220.7		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

JUNE 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	3.4	3.2				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	3.6	3.4				3.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	3.6	3.3				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	3.6	3.4				3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	3.5	3.3				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	3.5	3.3				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	3.5	3.3				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	3.5	3.3				3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	3.6	3.4				3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	3.5	3.3				3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	3.4	3.4	3.3	3.3	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	3.3	3.3	3.3	3.3	0.0	3.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	3.2	3.2	3.3	3.3	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	3.4	3.4	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	3.3	3.3	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	3.3	3.3	3.3	3.3	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	3.3	3.3	3.3	3.3	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	3.3	3.3	3.3	3.3	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	3.3	3.3	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	3.1	3.3	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	3.1	3.3	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	3.2	3.4	3.3	3.3	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	3.1	3.3	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	3.2	3.4	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	3.3	3.5	3.3	3.3	0.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	2.9	3.1	3.3	3.3	0.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	3.1	3.3	3.3	3.3	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	3.0	3.3	3.3	3.3	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	3.1	3.3	3.3	3.3	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	3.1	3.3	3.3	3.3	0.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	99.3	99.5	66.0	66.0	0.0	93.8		0.0		0.0		0.0		
TOTAL AF	197.0	197.4	130.9	130.9	0.0		186.3		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

JULY 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	2.8	3.0				2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	2.8	3.0				2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	3.0	3.1				2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	2.8	3.0				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	2.9	3.1				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	2.8	3.0				2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	2.8	3.0				2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	2.8	3.0				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	2.8	3.0				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	2.8	2.9				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	2.9	3.1	3.0	3.0	0.0	2.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	3.0	3.2	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	2.9	3.1	3.0	3.0	0.0	2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	2.7	2.9	3.0	3.0	0.0	2.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	3.0	3.2	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	2.8	3.0	3.0	3.0	0.0	2.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	2.7	2.9	3.0	3.0	0.0	2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	2.8	3.0	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	2.8	3.0	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	2.9	3.1	3.1	3.0	0.1	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	2.8	3.0	3.0	3.0	0.0	2.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	3.2	3.4	3.1	3.0	0.1	2.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	2.8	3.0	3.1	3.0	0.1	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	2.8	3.0	3.1	3.0	0.1	2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	2.8	3.0	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	2.7	2.9	3.0	3.0	0.0	2.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	2.8	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	2.9	3.1	3.1	3.0	0.1	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	2.6	2.8	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	2.8	3.0	3.0	3.0	0.0	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
31	2.8	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	87.8	93.8	63.5	63.0	0.5	84.2		0.0		0.0		0.0		
TOTAL AF	174.1	186.0	126.0	125.0	1.0		167.7		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

AUGUST 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	2.9	3.1				2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	2.9	3.1				2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	2.8	3.0				2.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	2.8	3.0				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	2.8	3.0				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	2.8	3.0				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	2.8	2.9				2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	2.9	2.9				2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	3.0	3.0				3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	3.0	3.0				3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	3.1	3.1	3.0	3.0	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	3.1	3.1	3.0	3.0	0.0	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	3.0	3.0	3.0	3.0	0.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	3.0	3.0	3.0	3.0	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	3.1	3.1	3.0	3.0	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	3.0	3.0	3.0	3.0	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	3.0	3.0	3.0	3.0	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	2.9	2.9	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	3.1	3.1	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
31	3.0	3.0	3.0	3.0	0.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	92.0	93.3	63.0	63.0	0.0	93.0		0.0		0.0		0.0		
TOTAL AF	182.5	185.1	125.0	125.0	0.0		184.9		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

SEPTEMBER 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	3.0	3.0				3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	3.0	3.0				3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	3.0	3.0				3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	3.0	3.0				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	3.0	3.0				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	3.0	3.0				3.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	3.0	3.0				3.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	2.9	2.9				3.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	3.0	3.0				3.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	3.1	3.1				3.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	3.0	3.0	3.0	3.0	0.0	3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	3.0	3.0	3.0	3.0	0.0	3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	3.1	3.1	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	3.0	3.0	3.0	3.0	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	3.0	3.0	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	3.0	3.0	3.0	3.0	0.0	3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	3.0	3.0	3.0	3.0	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	3.1	3.1	3.0	3.0	0.0	3.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	3.1	3.1	3.0	3.0	0.0	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	3.1	3.1	3.0	3.0	0.0	2.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	3.0	3.0	3.0	3.0	0.0	2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	3.0	3.0	3.0	3.0	0.0	2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	90.4	90.4	60.0	60.0	0.0	93.5		0.0		0.0		0.0		
TOTAL AF	179.3	179.3	119.0	119.0	0.0		185.5		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

OCTOBER 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	3.1	3.1				3.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	3.0	3.0				2.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	3.0	3.0				2.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	3.0	3.0				2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	3.0	3.0				2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	3.0	3.0				2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	3.0	3.0				2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	3.0	3.0				3.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	3.3	3.3				2.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	3.0	3.0				2.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	3.1	3.1	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	3.0	3.0	3.0	3.0	0.0	2.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	3.0	3.0	3.0	3.0	0.0	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	3.1	3.1	3.1	3.0	0.1	2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	3.0	3.0	3.1	3.0	0.1	2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	2.9	2.9	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	3.1	3.1	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	3.0	3.0	3.0	3.0	0.0	2.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	3.0	3.0	3.0	3.0	0.0	2.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	4.5	4.6	3.2	3.0	0.2	1.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	3.2	3.3	3.2	3.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	2.5	2.5	3.2	3.0	0.2	2.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	2.4	2.4	3.1	3.0	0.1	2.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	2.5	2.5	3.0	3.0	0.0	2.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	2.8	2.8	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	2.9	2.9	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	3.2	3.2	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	3.0	3.0	3.0	3.0	0.0	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
31	2.9	2.9	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	93.5	93.7	63.9	63.0	0.9	81.2		0.0		0.0		0.0		
TOTAL AF	185.5	185.9	126.7	125.0	1.8		161.3		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

NOVEMBER 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	3.0	3.0				2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	3.1	3.1				3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	3.1	3.1				2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	3.0	3.0				2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	3.0	3.0				2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	3.0	3.0				2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	3.0	3.0				3.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	3.0	3.0				2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	3.0	3.0				3.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	3.0	3.0				3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	3.0	3.0	3.0	3.0	0.0	3.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	3.0	3.0	3.0	3.0	0.0	2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	3.1	3.1	3.0	3.0	0.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	3.0	3.0	3.0	3.0	0.0	3.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	3.0	3.0	3.0	3.0	0.0	3.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	3.0	3.0	3.0	3.0	0.0	2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	3.0	3.0	3.0	3.0	0.0	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	3.0	3.0	3.0	3.0	0.0	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	3.0	3.0	3.0	3.0	0.0	2.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	2.9	2.9	3.0	3.0	0.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	3.0	3.0	3.0	3.0	0.0	2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	3.1	3.1	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	3.0	3.0	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	3.2	3.2	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	2.9	2.9	3.0	3.0	0.0	2.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	90.4	90.4	60.0	60.0	0.0	85.7		0.0		0.0		0.0		
TOTAL AF	179.3	179.3	119.0	119.0	0.0		170.5		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA

DECEMBER 2013 - CRITICALLY DRY YEAR

										CAMP PENDLETON GROUNDWATER BANK				
Day	USGS Official Discharge	USGS Daily Website Discharge	10-Day Running Average of Website Discharge	Minimum Flow Maintenance Requirement /1	Running Average Less Required Flow	WR-34 Make-Up Discharge		Climatic Credit Earned /2		Input	Input	Output	Output	Cumulative Balance
	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF
1	3.1	3.3				3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	3.1	3.3				3.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	3.2	3.4				3.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	3.1	3.3				3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	3.2	3.2				3.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	3.3	3.3				3.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	3.3	3.3				3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	3.3	3.3				3.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	3.3	3.3				3.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	3.4	3.4				3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	3.3	3.3	3.3	3.3	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	3.4	3.4	3.3	3.3	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	3.3	3.3	3.3	3.3	0.0	3.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	3.3	3.3	3.3	3.3	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	3.3	3.3	3.3	3.3	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	3.3	3.3	3.3	3.3	0.0	3.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	3.3	3.3	3.3	3.3	0.0	3.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	3.4	3.4	3.3	3.3	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	3.4	3.4	3.3	3.3	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	3.3	3.3	3.3	3.3	0.0	3.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	3.1	3.1	3.3	3.3	0.0	1.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	3.2	3.2	3.3	3.3	0.0	2.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	3.3	3.3	3.3	3.3	0.0	3.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	3.3	3.3	3.3	3.3	0.0	3.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	3.3	3.3	3.3	3.3	0.0	3.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	3.3	3.3	3.3	3.3	0.0	3.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	3.3	3.3	3.3	3.3	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	3.3	3.3	3.3	3.3	0.0	3.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	3.3	3.3	3.3	3.3	0.0	3.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	3.3	3.3	3.3	3.3	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
31	3.4	3.4	3.3	3.3	0.0	3.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	101.7	102.5	69.3	69.3	0.0	101.4		0.0		0.0		0.0		
TOTAL AF	201.7	203.3	137.5	137.5	0.0		201.2		0.0		0.0		0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for a Critically Dry year.
2 - Climatic Credits not applicable in May through December.

ANNUAL REPORT

COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX B-2

2013 REQUESTED MODIFICATIONS FOR REQUIRED MINIMUM DAILY FLOWS

Charles W. Binder

From: Molly Palmer <mollyp@stetsonengineers.com>
Sent: Tuesday, January 21, 2014 11:51 AM
To: Charles W. Binder
Cc: Alisa Nichols
Subject: FW: January 2013 CWRMA flow requirement

Chuck:

This is the first of two emails providing you with the correspondence from Dec 2012/Jan 2013 related to the winter-time flow requirement. The emails below discussed the preliminary flow determination in December 2012.

-Molly

From: Craig Elitharp [mailto:elitharpc@ranchowater.com]
Sent: Tuesday, December 18, 2012 12:04 PM
To: Molly Palmer
Subject: RE: January 2013 CWRMA flow requirement

Thanks Molly.

From: Molly Palmer [mailto:mollyp@stetsonengineers.com]
Sent: Tuesday, December 18, 2012 11:25 AM
To: Craig Elitharp
Cc: Steve Reich; Bartu CIV Daniel P (daniel.bartu@usmc.mil)
Subject: RE: January 2013 CWRMA flow requirement

Hi Craig:

Yes, I agree the winter flow is 6.5 cfs (total credit of 5.0 cfs, from 148 AF of CAP earned in 2011 plus 1037 AF of climatic credit earned in 2012).

We'll be looking to get our annual summary memo out in the second half of January (earlier this year Chuck confirmed that the USGS will publish their finalized flows at the Gorge by 1/15).

Hope you have a great holiday as well.

-Molly

From: Craig Elitharp [mailto:elitharpc@ranchowater.com]
Sent: Tuesday, December 18, 2012 8:30 AM
To: Molly Palmer
Cc: Steve Reich; Bartu CIV Daniel P (daniel.bartu@usmc.mil)
Subject: January 2013 CWRMA flow requirement

Hi Molly,

I've attached the current version of the accounting spreadsheet updated with daily data through yesterday. Could you please verify that the January, 2013 daily flow requirement is 6.5 cfs as shown on the 2013 worksheet? Thanks and have a great holiday. Same to you, Steve and Dan! Take care,

Craig

Charles W. Binder

From: Molly Palmer <mollyp@stetsonengineers.com>
Sent: Tuesday, January 21, 2014 11:51 AM
To: Charles W. Binder
Cc: Alisa Nichols
Subject: FW: Revised flow requirement

Chuck:

This is the second of two emails covering correspondence related to CWRMA in Dec 2012/Jan 2013. Below are emails between me and Craig from January 2013 discussing the revised winter-time flow rate and agreement to modify the winter-time flow requirement January 18-February 28.

-Molly

From: Craig Elitharp [mailto:elitharpc@ranchowater.com]
Sent: Thursday, January 17, 2013 12:09 PM
To: Molly Palmer
Subject: RE: Revised flow requirement

That works Molly, if you can reflect that modification in the spreadsheet. We will start with 5.3 cfs tomorrow and go through the end of February. Thanks.

Craig

From: Molly Palmer [mailto:mollyp@stetsonengineers.com]
Sent: Thursday, January 17, 2013 12:01 PM
To: Craig Elitharp
Subject: RE: Revised flow requirement

Hi Craig:

I suggest you reduce the flows now through the end of February to make up the difference. If you start tomorrow, that's 42 days to reduce by 25 ac-ft, or a reduction of .3 cfs. So, that would be a release rate of 5.3 cfs through Feb 28. Would that work for you?

-Molly

From: Craig Elitharp [mailto:elitharpc@ranchowater.com]
Sent: Tuesday, January 15, 2013 9:31 AM
To: Molly Palmer
Subject: RE: Revised flow requirement

Molly,

It looks like we purchased about 25 acre feet more than required by having the requirement change from 6.5 to 5.6 cfs, for the period January 1 through January 14, 2013. I'm open to suggestions on a way to credit this.

Craig

From: Molly Palmer [mailto:mollyp@stetsonengineers.com]
Sent: Monday, January 14, 2013 4:12 PM
To: Craig Elitharp
Subject: Revised flow requirement

Hi Craig:

Just a head's up that the winter-time flow requirement is actually lower than I originally calculated. I forgot about the April 2012 flow modification. The winter-time water that was postponed (later released in May and June) should have counted toward your Climatic Credit. So, the revised climatic credit is 1,248 ac-ft, plus the carry-over CAP credit of 148 ac-ft, giving a winter-time flow req't of 5.6 cfs.

Apologies for not catching this sooner. Let me know how much excess you've already released – we can work it out somehow to balance the water this winter.

I'm still preparing all of the detailed tables for the memo; Steve will be at the meeting tomorrow with some summary tables, and we'll have the memo out later this week.

Thanks,
Molly

Molly Palmer, P.E.
Water Resources Engineer
Stetson Engineers Inc.
2171 E. Francisco Blvd, Suite K, San Rafael CA 94901
Phone: 415 457 0701 Fax: 415 457 1638

ANNUAL REPORT

COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX C-1

PALA PARK GROUNDWATER MONITORING WELL

Site Description
Pala Park Groundwater Monitoring Well
(8S/2W-19A1-6)

LOCATION: Latitude 33º 28' 19.67", longitude 117º 07' 06.86" (NAD83) in Riverside County, California. Wells are located off Temecula Lane just south of Pala Community Park in Temecula, California.

SITE INFORMATION: Land-surface altitude is 1017 feet above mean sea level (NGVD29) from 24000 scale topographic map.

WATER-LEVEL RECORD: The period of record for intermittent and daily water-level measurements is listed below.

State well number	USGS station number	Intermittent water-level	Daily water-level
8S/2W-19A1	332819117070601	09/30/2006 to present	12/27/2006 to present
8S/2W-19A2	332819117070602	09/30/2006 to present	12/27/2006 to present
8S/2W-19A3	332819117070603	09/30/2006 to present	12/27/2006 to present
8S/2W-19A4	332819117070604	09/30/2006 to present	12/27/2006 to present
8S/2W-19A5	332819117070605	09/30/2006 to present	12/27/2006 to present
8S/2W-19A6	332819117070606	12/1/2008 to present	2/19/2009 to present

TOPOGRAPHIC MAP: USGS Pechanga, California, 7.5 minute series.

WELL SUMMARY INFORMATION:

State well number	USGS station number	Hole depth (ft)	Perforation depth (ft)	Casing size and type	Date drilled
8S/2W-19A1	332819117070601	1499	1430-1470	3" PVC	9/30/06
8S/2W-19A2	332819117070602	1499	1110-1130	2" PVC	9/30/06
8S/2W-19A3	332819117070603	1499	750-770	2" PVC	9/30/06
8S/2W-19A4	332819117070604	1499	380-400	2" PVC	9/30/06
8S/2W-19A5	332819117070605	1499	120-140	2" PVC	9/30/06
8S/2W-19A6	332819117070606	1499	15-35	2" PVC	9/30/06

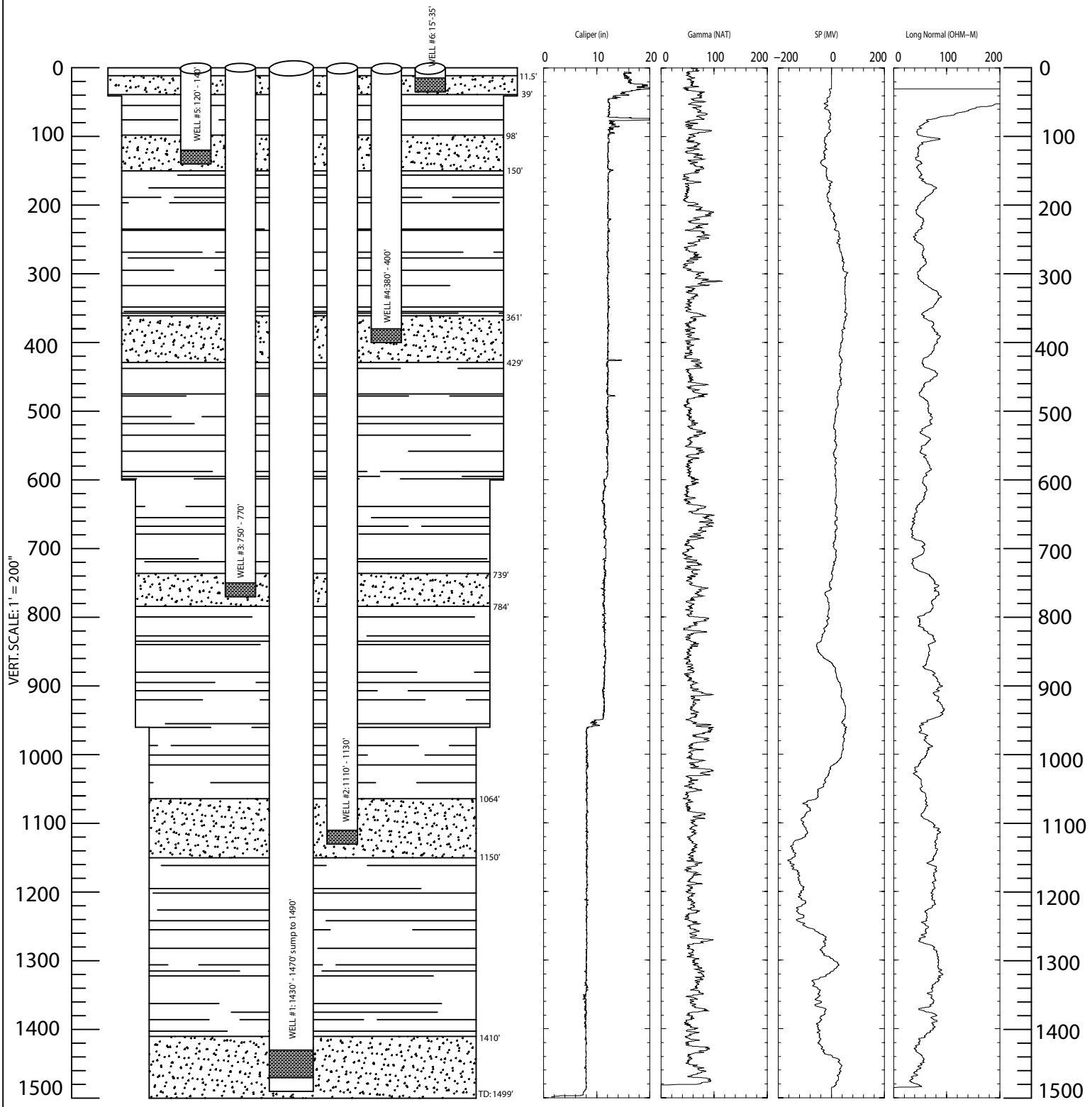
ROAD LOG: Key intersection is the intersection of CA-79 and Interstate Highway 15. Directions given are from Interstate Highway 15 North.

Mileage	Description
0.0	From I-15 North take the CA-79 South exit onto a local road toward Temecula / Indio.
0.3	Turn right on CA-79 South.
1.0	Turn right on Pechanga Parkway.
1.7	Turn left on Muirfield Dr.
1.9	Turn right on Canterfield Dr.
1.9	Turn right on Temecula Ln. Vault is located at end of Temecula Ln in a dirt/gravel lot adjacent to the parking lot for Pala Park. Vault is accessible from parking lot.

ADDITIONAL INFORMATION:

Additional information for Pala Park Groundwater Monitoring Well can be found in Santa Margarita River Watershed 2007 Annual Watermaster Report including geophysical logs; core, shaker, and sieve lithological logs; and well completion reports. Information can also be found at the following web site: http://ca.water.usgs.gov/temecula/.

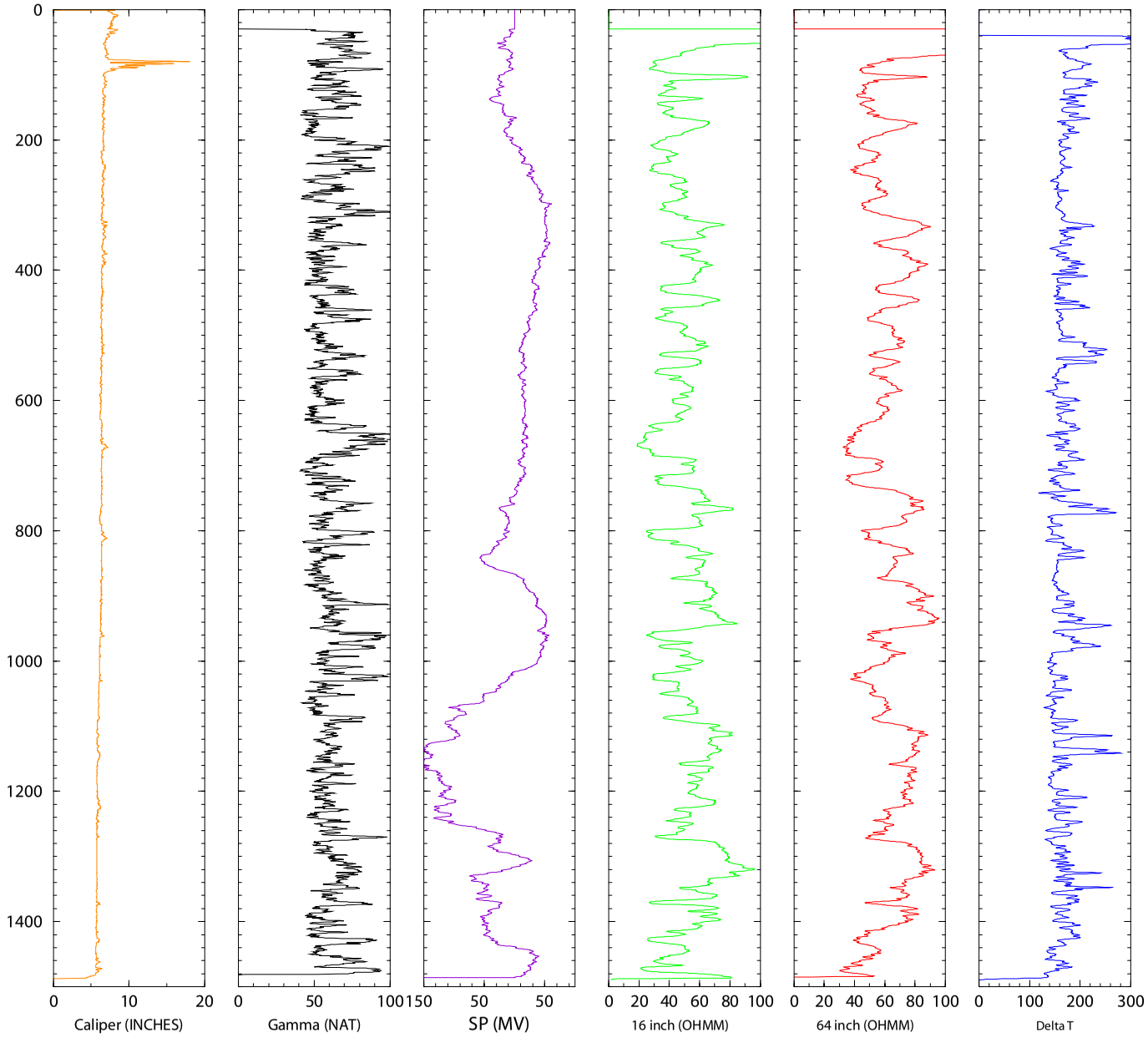
SITE I.D.:	3328191170706 01-06	COMPLETION DATE:	9/30/06
STATION NAME:	08S/02W-19A 01-06	TOTAL DEPTH:	1499'
USGS SITE:	TMPP- Temecula Pala Park	WELL FINISH:	VAULT
OWNER:	Rancho California Water Agency		



DRILL TYPE:	HYDRAULIC MUD ROTARY	DRILLER:	USGS WESTERN REGION CREW
CASING TYPE:	SCHD. 80 PVC 20' SEC.	SCREEN TYPE:	SCHD. 80 1.5"x0.02"SLOTS
GROUT:	PUREGOLD GROUT @ 30% SOLIDS	SAND:	RMC LONESTAR #3
BOREHOLE DIA:	15": 0'- 41'; 12.25": 41'-600'; 10.5": 600'-960'; 8.5": 960'-1499'		

TMPP

Pacific Surveys Logs



End-of Month Piezometric Head for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
(elevation in feet, MSL)

October 2006 through December 2013

Month	Well A1	Well A2	Well A3	Well A4	Well A5	Well A6
Oct 06	---	---	---	---	---	---
Nov	---	---	---	---	---	---
Dec	970.97	954.73	944.95	941.54	926.31	---
Jan 07	970.65	953.83	944.07	940.76	923.21	---
Feb	970.44	953.11	942.93	939.65	920.77	---
Mar	969.80	952.02	942.11	938.73	918.47	---
Apr	969.60	951.37	941.13	937.61	923.65	---
May	968.13	949.31	940.04	937.16	919.28	---
Jun	967.32	948.40	940.02	937.29	917.41	---
Jul	966.80	948.38	939.25	936.23	915.60	---
Aug	966.44	947.88	938.13	934.93	913.66	---
Sep	966.15	947.37	937.16	933.84	911.87	---
Oct	966.47	947.27	936.82	932.97	910.16	---
Nov	965.56	945.91	934.77	931.17	907.93	---
Dec	966.19	945.53	934.87	931.51	938.87	---
Jan 08	966.58	945.57	935.68	932.18	---	---
Feb	966.64	945.74	936.34	932.92	990.70	---
Mar	964.54	944.35	934.79	931.71	963.22	---
Apr	964.15	943.91	933.45	930.56	948.24	---
May	963.78	943.12	932.52	929.58	960.88	---
Jun	962.96	942.00	931.55	929.03	945.64	---
Jul	962.35	941.37	931.37	928.83	938.27	---
Aug	961.88	940.86	930.74	928.18	933.20	---
Sep	961.24	940.12	930.21	927.64	928.37	---
Oct	960.73	939.62	929.45	926.74	923.70	---
Nov	961.37	940.01	929.91	926.84	941.33	---
Dec	962.17	940.36	930.44	927.41	976.14	---
Jan 09	960.88	939.14	930.34	928.01	953.31	---
Feb	961.24	939.84	931.38	929.02	982.94	---
Mar	960.34	939.64	931.76	929.53	960.46	---
Apr	959.98	939.92	931.39	929.10	948.52	---
May	959.61	939.56	931.25	929.11	941.61	---
Jun	959.46	939.83	931.20	928.82	937.06	---
Jul	958.83	938.98	930.43	928.39	932.94	---
Aug	958.24	938.57	930.50	928.68	929.33	---
Sep	957.20	937.87	930.43	928.81	926.62	---
Oct	956.70	937.76	931.13	929.61	924.85	---
Nov	956.46	938.03	932.03	930.61	924.30	---
Dec	957.20	939.13	933.39	931.84	947.91	---
Jan 10	958.88	941.38	935.64	933.74	988.09	---
Feb	959.06	941.92	936.75	935.29	1000.96	---
Mar	958.15	941.99	937.70	936.54	974.72	---
Apr	958.07	942.58	937.54	937.13	982.19	---
May	957.89	943.06	937.98	937.57	965.27	---
Jun	958.32	943.72	938.07	937.78	957.29	---
Jul	958.14	943.80	938.11	937.88	951.58	---
Aug	958.44	944.26	938.41	938.15	947.87	---
Sep	958.55	944.51	938.57	938.20	944.92	---
Oct	958.78	944.58	938.85	938.61	959.01	---
Nov	959.82	945.68	940.45	939.87	962.25	---
Dec	961.07	947.03	942.25	941.81	1000.33	992.80

End-of Month Piezometric Head for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
(elevation in feet, MSL)

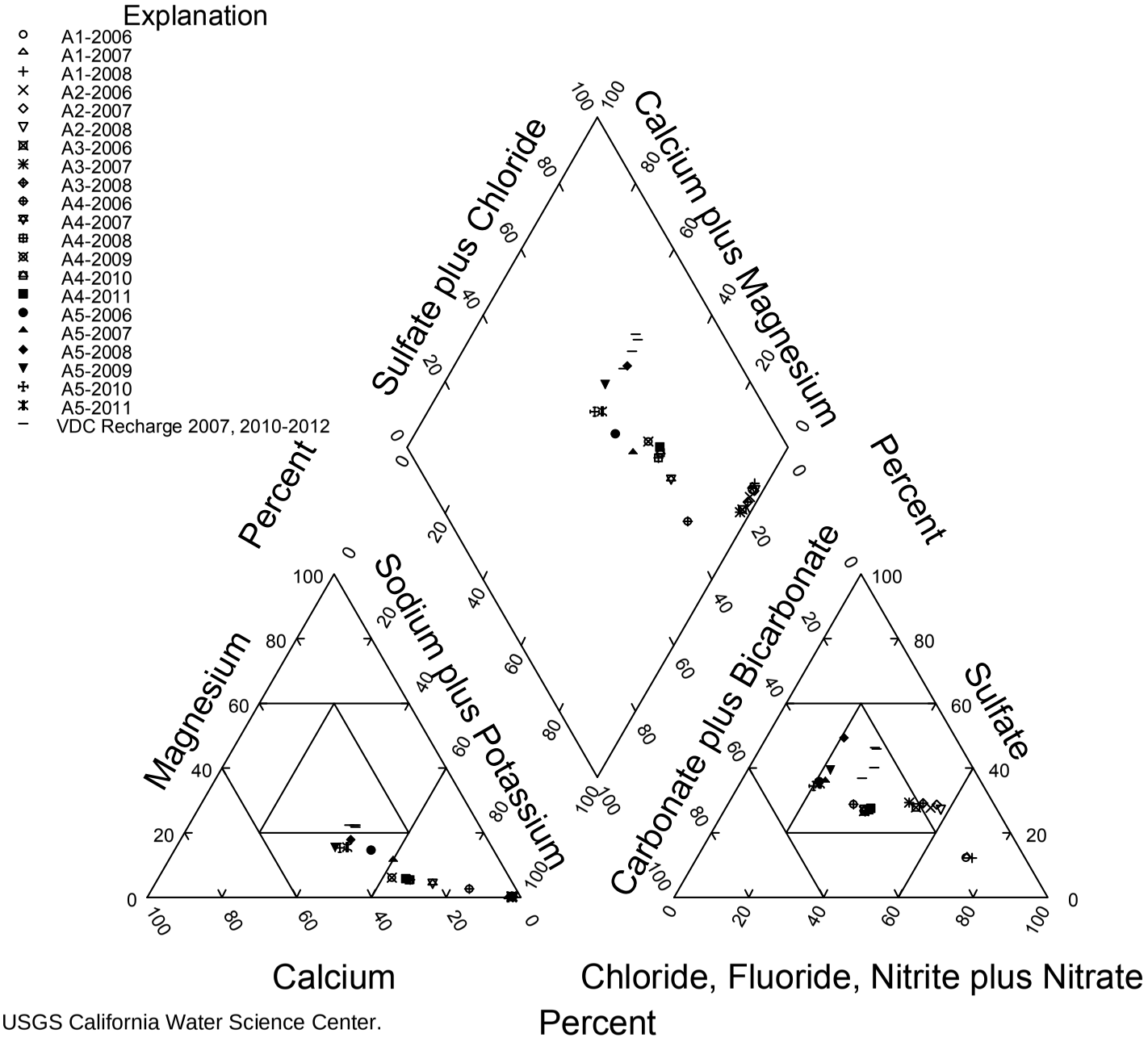
October 2006 through December 2013

Month	Well A1	Well A2	Well A3	Well A4	Well A5	Well A6
Jan 11	960.24	946.80	942.98	943.00	982.92	---
Feb	960.57	947.70	943.43	943.80	997.48	992.32
Mar	961.08	948.46	944.63	945.31	993.72	991.58
Apr	960.30	948.43	945.04	946.06	980.66	985.83
May	960.25	948.79	945.50	946.83	972.68	---
Jun	961.35	950.50	946.84	947.46	967.27	---
Jul	961.39	950.89	945.38	945.85	960.20	---
Aug	961.48	950.50	944.67	945.31	956.01	---
Sep	961.12	949.81	944.98	945.92	954.76	---
Oct	961.99	950.64	946.68	947.52	958.32	---
Nov	962.64	951.42	948.38	949.39	976.96	---
Dec	962.32	951.69	949.53	950.96	977.41	987.31
Jan 12	963.05	953.19	951.57	952.65	972.49	986.99
Feb	963.34	954.42	951.59	952.64	994.39	989.85
Mar	964.74	955.76	952.96	954.18	996.28	994.64
Apr	964.02	955.42	953.29	956.08	994.94	993.44
May	963.84	955.93	954.19	958.65	990.64	991.42
Jun	964.24	956.71	955.24	960.01	989.16	990.46
Jul	964.83	957.83	955.89	960.11	987.29	990.23
Aug	964.84	958.00	955.24	959.30	983.71	990.10
Sep	965.12	958.42	955.40	958.93	979.99	989.59
Oct	965.29	958.41	955.77	959.13	978.25	989.44
Nov	965.33	958.46	956.62	960.19	978.66	990.56
Dec	967.61	960.91	958.75	961.87	991.75	992.30
Jan 13	968.46	962.11	959.77	963.53	990.99	992.48
Feb	968.05	961.79	960.03	965.30	994.33	994.54
Mar	967.57	961.78	961.27	971.19	994.14	994.62
Apr	967.64	962.47	962.67	973.54	993.99	994.97
May	969.29	964.57	964.16	974.02	993.52	994.45
Jun	969.56	966.00	964.77	974.30	993.55	994.69
Jul	969.50	965.40	964.24	973.43	992.49	993.46
Aug	969.67	965.74	963.94	972.11	990.47	991.97
Sep	969.71	965.49	963.20	970.17	988.27	991.50
Oct	969.82	965.38	963.34	969.31	987.68	991.37
Nov	970.28	965.64	963.94	969.47	989.03	991.83
Dec	970.23	965.58	964.46	970.38	990.91	992.58

Notes:
(1) Data reported as 12:00 PM reading for period December 2006 through September 2010.
(2) Data reported as daily median value for period October 2010 to present.

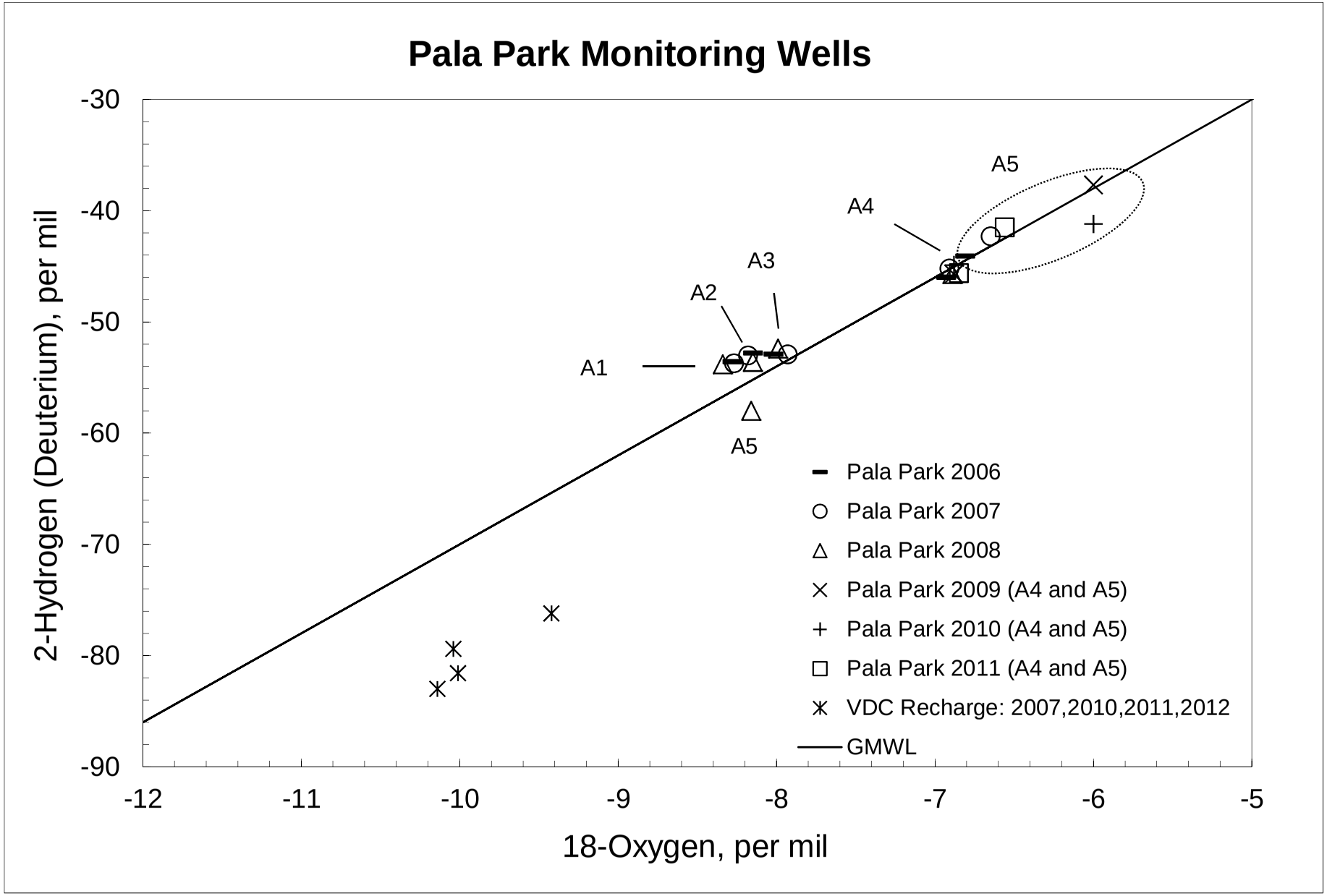
Source: USGS California Water Science Center.

Tri-Linear Diagram
Pala Park Well (8S/2W-19A1-6)



Source: USGS California Water Science Center.

Stable Isotope Diagram



Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		**11/8/2006**	**11/2/2006**	**11/1/2006**	**11/6/2006**	**11/8/2006**
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		22.3	20.5	21.4	22.9	20.8
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		665	821	750	831	687
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M	M	M	0.00002
300	Dissolved oxygen, water, unfiltered, milligrams per liter		0.40	0.29	0.30	0.53	6.2
400	pH, water, unfiltered, field, standard units		9.4	9.7	9.4	8.6	7.8
403	pH, water, unfiltered, laboratory, standard units		9.5	9.7	9.4	8.6	8
602	Total nitrogen, water, filtered, milligrams per liter				0.14 E	0.14 E	2.7
607	Organic nitrogen, water, filtered, milligrams per liter			0.08	0.04 E	0.05 E	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.028	0.041	0.046	0.041	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		0.010	0.011	0.008	0.004
618	Nitrate, water, filtered, milligrams per liter as nitrogen				0.04 E	0.04 E	2.59
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen			0.12	0.09 E	0.09 E	0.13
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			< 0.06	0.05 E	0.05 E	2.60
660	Orthophosphate, water, filtered, milligrams per liter			2.41	3.33	1.88	0.741
666	Phosphorus, water, filtered, milligrams per liter			1.02	1.32	0.67	0.33
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			0.785	1.08	0.614	0.242
900	Hardness, water, milligrams per liter as calcium carbonate		8	9	8	57	160
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter		3.14	3.32	2.62	18.7	44.9
925	Magnesium, water, filtered, milligrams per liter		0.106	0.058	0.288	2.45	12.1
930	Sodium, water, filtered, milligrams per liter		127	152	138	145	81.4
931	Sodium adsorption ratio, water, number		19	23	22	8.4	2.8
932	Sodium fraction of cations, water, percent in equivalents of major cations		97	97	97	84	52
935	Potassium, water, filtered, milligrams per liter		0.62	0.96	1.26	2.39	2.10
940	Chloride, water, filtered, milligrams per liter	600	138	131	112	87.1	40.1
945	Sulfate, water, filtered, milligrams per liter	600	34.1	95.3	84.7	102	110
950	Fluoride, water, filtered, milligrams per liter	2 (b)	4.56	4.18	1.09	0.38	0.42
955	Silica, water, filtered, milligrams per liter		17.3	19.0	14.6	17.2	28.3
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	25.7	20.4	17.1	6.0	2.4
1005	Barium, water, filtered, micrograms per liter	1000 (d)	2.9	2.6	2.3	10.4	31.9
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		128	138	97	120	150
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	< 6	3 E	3 E	< 6	< 6
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50	0.5 E	0.7	1.6	7.6	1.7
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		23.0	16.8	17.8	161	202
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	95.3	127	82.4	54.3	4.1
1130	Lithium, water, filtered, micrograms per liter		4	5	4	7	6
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		11/8/2006	11/2/2006	11/1/2006	11/6/2006	11/8/2006
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					< 0.026	< 0.026
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter					< 0.006	0.036
4036	Prometryn, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
4037	Prometon, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					< 0.014	< 0.014
4095	Fonofos, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
7000	Tritium, water, unfiltered, picocuries per liter		-0.19	0.35	0.45	0.58	11.14
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		50	65	74	165	168
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	0.03 E
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150				< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1				< 0.02	< 0.02
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70				< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300				< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34409	Isophorone, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150				< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.06	< 0.06
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200				< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1				< 0.10	< 0.10
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600				< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10				< 0.02	< 0.02
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.1	< 0.1
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter					< 0.14	< 0.14
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.1	< 0.1

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		11/8/2006	11/2/2006	11/1/2006	11/6/2006	11/8/2006
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.06	< 0.06
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter					< 0.08	< 0.08
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate			61			
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.1	< 0.1
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					< 0.009	< 0.009
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					< 0.010	< 0.010
39532	Malathion, water, filtered, recoverable, micrograms per liter					< 0.016	< 0.016
39572	Diazinon, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
39632	Atrazine, water, filtered, recoverable, micrograms per liter					< 0.007	< 0.007
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.09	< 0.09
49933	C-14, water, filtered, percent modern			17.27	13.56	63.16	
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					< 0.053	< 0.053
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					< 0.046	< 0.046
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					< 0.03	< 0.03
61593	Iprodione, water, filtered, recoverable, micrograms per liter					< 0.026	< 0.026
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					< 0.011	< 0.011
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter					< 0.007	< 0.007
61598	Methidathion, water, filtered, recoverable, micrograms per liter					< 0.009	< 0.009
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					< 0.033	< 0.033
61601	Phosmet, water, filtered, recoverable, micrograms per liter					< 0.008	< 0.008
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					< 0.035	< 0.035
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					< 0.004	< 0.004
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.06	< 0.06
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					< 0.02	< 0.02
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					< 0.053	< 0.053
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					< 0.039	< 0.039
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					< 0.02	< 0.02
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.03	< 0.03
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.05	< 0.05
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		11/8/2006	11/2/2006	11/1/2006	11/6/2006	11/8/2006
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter					< 0.016	< 0.016
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					< 0.013	< 0.013
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					< 0.024	< 0.024
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					< 0.029	0.008 E
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					< 0.012	< 0.012
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter						
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	360	473	416	493	433
70301	Residue, water, filtered, sum of constituents, milligrams per liter		356 E	446 E	404 E	477 E	433
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4		0.04	0.05	0.06	0.05	
71851	Nitrate, water, filtered, milligrams per liter	45 (q)			0.184 E	0.174 E	11.5
71856	Nitrite, water, filtered, milligrams per liter			0.032	0.038	0.025	0.012
71865	Iodide, water, filtered, milligrams per liter		0.310	0.517	0.390	0.025	0.003
71870	Bromide, water, filtered, milligrams per liter		0.31	0.42	0.37	0.28	0.06
72019	Depth to water level, feet below land surface		46.61	60.97	70.00	73.36	83.74

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		11/8/2006	11/2/2006	11/1/2006	11/6/2006	11/8/2006
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		0.58	0.58	0.58	0.58	0.70
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter					0.10	< 0.06
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					< 0.40	< 0.40
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil			-16.29	-16.37	-10.71	
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-53.60	-52.80	-52.90	-46.00	-44.10
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.28	-8.15	-8.02	-6.93	-6.81
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter					< 0.016	< 0.016
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.5	< 0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					< 0.012	< 0.012
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.006	< 0.006
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.009	< 0.009
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.006	< 0.006
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	< 0.02
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.008	< 0.008

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		11/8/2006	11/2/2006	11/1/2006	11/6/2006	11/8/2006
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	< 0.02
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	< 0.01
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	< 0.01
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.004	< 0.004
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.06	< 0.06
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.003	< 0.003
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	< 0.02
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.08	< 0.08
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	< 0.01
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		647	820	727	810	674
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						M
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					126	136
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					89.8	92.5
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					62.5	62.3
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					120	119
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					93.5	99.1

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		9/27/2007	9/20/2007	9/25/2007	9/25/2007	9/20/2007
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		25.5	21.0	21.1	21.1	21.0
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		653	789	786	686	685
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M	M	0.00001	0.00001
300	Dissolved oxygen, water, unfiltered, milligrams per liter		< 0.2	< 0.2	0.1	0.1	5.7
400	pH, water, unfiltered, field, standard units		9.5	9.4	9.1	8.3	7.9
403	pH, water, unfiltered, laboratory, standard units		9.6	9.4	9.2	8.3	7.9
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter						
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.026	0.021	0.051	0.031	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.002	< 0.002	< 0.002	< 0.002	0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen						2.12
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.06	< 0.06	< 0.06	< 0.06	2.12
660	Orthophosphate, water, filtered, milligrams per liter		0.066	1.41	6.03	1.02	3.07
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.021	0.459	1.97	0.332	1.00
900	Hardness, water, milligrams per liter as calcium carbonate		10	8	10	89	130
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter		3.87	2.87	3.64	29.5	38.0
925	Magnesium, water, filtered, milligrams per liter		0.029	0.078	0.337	3.56	9.29
930	Sodium, water, filtered, milligrams per liter		132	151	169	116	90.7
931	Sodium adsorption ratio, water, number		18	24	23	5.3	3.4
932	Sodium fraction of cations, water, percent in equivalents of major cations		97	97	97	73	59
935	Potassium, water, filtered, milligrams per liter		0.33	0.76	1.39	2.32	2.58
940	Chloride, water, filtered, milligrams per liter	600	133	131	121	80.8	44.1
945	Sulfate, water, filtered, milligrams per liter	600	33.3	95.2	101	79.9	108
950	Fluoride, water, filtered, milligrams per liter	2 (b)	4.42	3.44	0.92	0.28	0.31
955	Silica, water, filtered, milligrams per liter		18.2	17.6	14.8	17.7	24.3
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	31.3	18.7	13.1	4.5	4.0
1005	Barium, water, filtered, micrograms per liter	1000 (d)	4	3	3	14	22
1010	Beryllium, micrograms per liter	4 (e)	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1020	Boron, water, filtered, micrograms per liter		102	158	147	153	143
1025	Cadmium, micrograms per liter	5 (f)	0.35	0.49	0.31	0.03 E	0.02 E
1030	Chromium, micrograms per liter	50 (g)	0.09 E	0.31	0.2	0.21	1.10
1035	Cobalt, micrograms per liter		< 0.04	< 0.04	0.04 E	0.03 E	0.08
1040	Copper, micrograms per liter	1000 (h)	< 0.4	0.22 E	0.70	0.87	1.70
1046	Iron, water, filtered, micrograms per liter	300	3 E	< 6	10	4 E	< 6
1049	Lead, micrograms per liter		< 0.12	< 0.12	0.08 E	< 0.12	< 0.12
1056	Manganese, water, filtered, micrograms per liter	50	0.4	0.9	2.8	12.4	0.7
1057	Thallium, micrograms per liter	2 (i)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1060	Molybdenum, micrograms per liter		208	251	208	11.5	6.8
1065	Nickel, micrograms per liter	100 (j)	0.07	0.19	0.46	0.26	0.73
1075	Silver, micrograms per liter	100 (k)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1080	Strontium, water, filtered, micrograms per liter		28.1	17.3	20.3	257	201
1085	Vanadium, micrograms per liter		78.6	32.2	7.3	1.1	21.5
1090	Zinc, micrograms per liter	5000 (l)	< 0.6	0.70	0.70	1.0	2.8
1095	Antimony, micrograms per liter	6 (m)	0.06 E	0.11	0.17	0.04 E	0.07
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	43.1	100	139	27.0	3.3
1130	Lithium, water, filtered, micrograms per liter		2.0	4.0	2.7	6.8	5.1
1145	Selenium, micrograms per liter	50 (o)	< 0.08	0.08	0.09	0.05 E	7.5
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		9/27/2007	9/20/2007	9/25/2007	9/25/2007	9/20/2007
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		0.6	0.3	-0.6	0.3	8.3
22703	Uranium, natural, micrograms per liter		0.06	0.13	0.43	2.17	2.16
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		46	58	92	132	158
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.04	< 0.04	< 0.04	0.04 V
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.02	0.02 V	0.04 E	< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.02	0.03 E	0.02 E	< 0.02	< 0.02
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	0.1 E	< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	0.6 E	< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.06	< 0.06	< 0.06	< 0.06
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.04	< 0.04	< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.4	< 0.4	< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		9/27/2007	9/20/2007	9/25/2007	9/25/2007	9/20/2007
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.10	< 0.06	< 0.06	< 0.06	< 0.06
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern		3.44		17.52	67.68	88.09
49934	C-14, counting error, water, filtered, percent modern		0.12		0.22	0.31	0.37
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.4	< 0.4	< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.04	< 0.04	< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	< 0.5	< 0.5	< 1	< 1	< 0.5
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		9/27/2007	9/20/2007	9/25/2007	9/25/2007	9/20/2007
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter		0.04 E	0.06	0.11	0.04 E	2.21
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6	< 0.1	0.7	0.26	< 0.1	0.23
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	358	460	471	397	429
70301	Residue, water, filtered, sum of constituents, milligrams per liter		354 E	439 E	475 E	410 E	425 E
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4		0.03	0.03	0.07	0.04	
71851	Nitrate, water, filtered, milligrams per liter	45 (q)					9.37
71856	Nitrite, water, filtered, milligrams per liter						0.008
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter		0.31	0.40	0.36	0.26	0.12
72019	Depth to water level, feet below land surface						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		9/27/2007	9/20/2007	9/25/2007	9/25/2007	9/20/2007
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.0	1.0	1.0	1.0	1.0
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		20	21	18	19	21
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.4	< 0.4	< 0.4	< 0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	0.02 E	0.02 E	< 0.04	0.03 E
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.08	< 0.08	< 0.08	< 0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.2	< 0.2	< 0.2	< 0.2
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 4	< 6	< 6	< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.77	< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.4	< 0.4	< 0.4	< 0.4
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-19.11		-14.90	-14.87	-15.57
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-53.70	-53.00	-52.90	-45.20	-42.30
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.27	-8.18	-7.93	-6.91	-6.65
82303	Rn-222, water, unfiltered, picocuries per liter		320	270	200	210	280
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		9/27/2007	9/20/2007	9/25/2007	9/25/2007	9/20/2007
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		667	794	805	694	686
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						M
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery		127	130	134	133	131
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery		93.6	95.0	96.8	97.6	93.6
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery		71.0	72.1	73.4	73.9	73.8
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		**4/22/2008**	**4/23/2008**	**4/23/2008**	**4/23/2008**	**4/23/2008**
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		22.4	24.9	24.4	22.5	20.1
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		656	772	756	670	642
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M	M	0.00001	0.00003 E
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units		9.2	9.3	9.3	8.1	7.6
403	pH, water, unfiltered, laboratory, standard units		9.6	9.5	9.3	8.2	7.7
602	Total nitrogen, water, filtered, milligrams per liter						2.5 E
607	Organic nitrogen, water, filtered, milligrams per liter				0.05 E		
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.027	0.029	0.045	0.023	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.002	< 0.002	0.002 E	< 0.002	< 0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen						
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		< 0.14	< 0.14	0.09 E	< 0.14	0.08 E
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.04	< 0.04	< 0.04	< 0.04	2.41
660	Orthophosphate, water, filtered, milligrams per liter		0.044	0.771	1.78	1.29	0.533
666	Phosphorus, water, filtered, milligrams per liter		< 0.04	0.24	0.56	0.41	0.17
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.014	0.251	0.579	0.420	0.174
900	Hardness, water, milligrams per liter as calcium carbonate		9 E	7	7	100	160
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						61
915	Calcium, water, filtered, milligrams per liter		3.48	2.60	2.58	33.0	44.2
925	Magnesium, water, filtered, milligrams per liter		0.014 E	0.079	0.180	4.13	13.1
930	Sodium, water, filtered, milligrams per liter		119	144	141	94.0	61.8
931	Sodium adsorption ratio, water, number		18 E	24	23	4.1	2.1
932	Sodium fraction of cations, water, percent in equivalents of major cations		97 E	98	97	67	45
935	Potassium, water, filtered, milligrams per liter		0.33	0.72	0.99	2.17	1.99
940	Chloride, water, filtered, milligrams per liter	600	140	130	118	79.8	36.9
945	Sulfate, water, filtered, milligrams per liter	600	33.3	86.5	90.5	76.4	141
950	Fluoride, water, filtered, milligrams per liter	2 (b)	4.62	3.39	0.94	0.29	0.39
955	Silica, water, filtered, milligrams per liter		19.3	18.4	14.1	18.1	28.6
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	31.2	19.3	13.1	4.7	1.1
1005	Barium, water, filtered, micrograms per liter	1000 (d)	4.7	4.0	2.3	14.9	40.8
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		125	130	91	98	120
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	< 8	9	< 8	5 E	< 8
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50	0.4	1.5	1.0	16.4	0.5
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		27.3	18.1	19.4	299	226
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	35.6	115	87.8	10.8	1.4 E
1130	Lithium, water, filtered, micrograms per liter		5	5	4	8	6
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		4/22/2008	4/23/2008	4/23/2008	4/23/2008	4/23/2008
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter					< 0.4	< 0.4
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		-0.35	-0.13	0.32	0.26	10.78
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		46	56	68	129	108
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.02	0.04 E
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150				< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1				< 0.02	< 0.02
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				< 0.1	< 0.1
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70				< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300				< 0.04	< 0.04
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34409	Isophorone, water, filtered, recoverable, micrograms per liter					M	M
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34466	Phenol, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
34470	Pyrene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150				< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200				< 0.02	< 0.02
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.06	< 0.06
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1				< 0.10	< 0.10
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600				< 0.02	< 0.02
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10				< 0.02	< 0.02
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.1	< 0.1
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter					< 0.14	< 0.14
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.10	< 0.10

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		4/22/2008	4/23/2008	4/23/2008	4/23/2008	4/23/2008
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.10	< 0.10
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		43	52	68	122	104
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.1	< 0.1
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern		2.91	14.29		69.32	88.12
49934	C-14, counting error, water, filtered, percent modern		0.11	0.21		0.35	0.41
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter					< 0.6	< 0.6
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
50305	Caffeine, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62005	Cotinine, water, filtered, recoverable, micrograms per liter					< 0.400	< 0.400

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		4/22/2008	4/23/2008	4/23/2008	4/23/2008	4/23/2008
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					< 0.08	< 0.08
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					< 0.6	< 0.6
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					< 0.16	< 0.16
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					< 0.08	< 0.08
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					< 0.4	< 0.4
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					< 2	< 2
62070	Camphor, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62071	Carbazole, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62076	Indole, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62080	Menthol, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62082	DEET, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter					< 5	< 5
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					< 0.18	< 0.18
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62090	Triclosan, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					< 0.4	< 0.4
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter						
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	356	437	430	407	429
70301	Residue, water, filtered, sum of constituents, milligrams per liter		347 E	419	412 E	383 E	402 E
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4		0.04	0.04	0.06	0.03	
71851	Nitrate, water, filtered, milligrams per liter	45 (q)					
71856	Nitrite, water, filtered, milligrams per liter				0.006 E		
71865	Iodide, water, filtered, milligrams per liter		0.399	0.666	0.489	0.025	0.005
71870	Bromide, water, filtered, milligrams per liter		0.33	0.40	0.38	0.27	0.06
72019	Depth to water level, feet below land surface		53.42	72.96	83.30	86.32	66.09

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		4/22/2008	4/23/2008	4/23/2008	4/23/2008	4/23/2008
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		0.58	0.58	0.58	0.58	0.64
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter					< 0.06	< 0.06
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.6	< 0.6
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					< 4	< 4
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-19.70	-16.90		-14.89	-16.88
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-53.80	-53.60	-52.40	-45.70	-58.00
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.34	-8.15	-7.99	-6.89	-8.16
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.5	< 0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date		4/22/2008	4/23/2008	4/23/2008	4/23/2008	4/23/2008
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 1	< 1
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		645	757	732	668	631
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						M
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					129	130
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					90.9	91.5
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					78.9	75.6
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2009

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/4/2009**	**8/4/2009**
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius					20.8	19
28	Agency analyzing sample, code					80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius					660	601
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter					0.00001	0.00002
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units					8.1	7.7
403	pH, water, unfiltered, laboratory, standard units					8.2	7.7
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter					151	148
602	Total nitrogen, water, filtered, milligrams per liter						2.9 E
607	Organic nitrogen, water, filtered, milligrams per liter						0.07 E
608	Ammonia, water, filtered, milligrams per liter as nitrogen					0.024	0.01 E
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				< 0.002	< 0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen						
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen					< 0.1	0.08 E
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					< 0.04	2.86
660	Orthophosphate, water, filtered, milligrams per liter					1.28	0.870
666	Phosphorus, water, filtered, milligrams per liter					0.41	0.29
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus					0.419	0.284
900	Hardness, water, milligrams per liter as calcium carbonate					110	170
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						44
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						38
915	Calcium, water, filtered, milligrams per liter					38.4	48.3
925	Magnesium, water, filtered, milligrams per liter					4.54	10.8
930	Sodium, water, filtered, milligrams per liter					86.2	55.0
931	Sodium adsorption ratio, water, number					3.5	1.9
932	Sodium fraction of cations, water, percent in equivalents of major cations					62	42
935	Potassium, water, filtered, milligrams per liter					1.98	1.86
940	Chloride, water, filtered, milligrams per liter	600				78.5	35.1
945	Sulfate, water, filtered, milligrams per liter	600				76.3	103
950	Fluoride, water, filtered, milligrams per liter	2 (b)				0.23	0.21
955	Silica, water, filtered, milligrams per liter					18.5	26.6
1000	Arsenic, water, filtered, micrograms per liter	10 (c)				4.7	1.4
1005	Barium, water, filtered, micrograms per liter	1000 (d)				21.0	49.7
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter					105	128
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300				5	< 4
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50				20.3	< 0.2
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter					343	257
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)				6.6	< 4
1130	Lithium, water, filtered, micrograms per liter					7	7

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2009

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					8/4/2009	8/4/2009
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter						
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					129	127
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2009

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					8/4/2009	8/4/2009
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate					124	121
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern						
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2009

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					8/4/2009	8/4/2009
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter						
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500				389	396
70301	Residue, water, filtered, sum of constituents, milligrams per liter					381	368 E
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4					0.03	0.01 E
71851	Nitrate, water, filtered, milligrams per liter	45 (q)					
71856	Nitrite, water, filtered, milligrams per liter						
71865	Iodide, water, filtered, milligrams per liter					0.035	0.004

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2009

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/4/2009**	**8/4/2009**
71870	Bromide, water, filtered, milligrams per liter					0.27	0.06
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05					
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter						
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil						
82082	Deuterium/Protium ratio, water, unfiltered, per mil					-45.30	-37.70
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil					-6.88	-6.00
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2009

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/4/2009**	**8/4/2009**
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius					676	611
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**7/26/2010**	**7/26/2010**
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius					22.5	19.5
28	Agency analyzing sample, code					80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius					670	720
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter					0.00001	0.00003
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units					8.0	7.6
403	pH, water, unfiltered, laboratory, standard units					8.2	7.6
405	Carbon dioxide, water, unfiltered, milligrams per liter					2.2	9.1
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter					149	224
602	Total nitrogen, water, filtered, milligrams per liter					< 0.14	3.8 E
607	Organic nitrogen, water, filtered, milligrams per liter					< 0.08	< 0.09
608	Ammonia, water, filtered, milligrams per liter as nitrogen					0.025	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				0.001 E	0.001 E
618	Nitrate, water, filtered, milligrams per liter as nitrogen					< 0.039	3.66 E
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen					< 0.10	0.09 E
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					< 0.04	3.66
660	Orthophosphate, water, filtered, milligrams per liter					1.10	4.36
666	Phosphorus, water, filtered, milligrams per liter					0.35	1.40
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus					0.359	1.42
900	Hardness, water, milligrams per liter as calcium carbonate					104	211
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						27
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						22
915	Calcium, water, filtered, milligrams per liter					34.5	61.4
925	Magnesium, water, filtered, milligrams per liter					4.18	14.0
930	Sodium, water, filtered, milligrams per liter					96.8	74.3
931	Sodium adsorption ratio, water, number					4.14	2.23
932	Sodium fraction of cations, water, percent in equivalents of major cations					67	43
935	Potassium, water, filtered, milligrams per liter					2.03	2.34
940	Chloride, water, filtered, milligrams per liter	600				83.9	39.5
945	Sulfate, water, filtered, milligrams per liter	600				79.9	114
950	Fluoride, water, filtered, milligrams per liter	2 (b)				0.26	0.12
955	Silica, water, filtered, milligrams per liter					16.9	28.4
1000	Arsenic, water, filtered, micrograms per liter	10 (c)				4.6	2.8
1005	Barium, water, filtered, micrograms per liter	1000 (d)				19.4	54.0
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter					106	145
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300				6 E	< 6
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50				20.0	< 0.2
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter					309	344
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)				12.5	2.4

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**7/26/2010**	**7/26/2010**
1130	Lithium, water, filtered, micrograms per liter					7	7
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter						
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					128	190
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					7/26/2010	7/26/2010
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate					124	185
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern						
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					7/26/2010	7/26/2010
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter						
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500				379	465
70301	Residue, water, filtered, sum of constituents, milligrams per liter					395 E	466 E
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4					0.032	< 0.026
71851	Nitrate, water, filtered, milligrams per liter	45 (q)				< 0.173	16.2 E
71856	Nitrite, water, filtered, milligrams per liter					0.003 E	0.003 E

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**7/26/2010**	**7/26/2010**
71865	Iodide, water, filtered, milligrams per liter					0.025	0.002
71870	Bromide, water, filtered, milligrams per liter					0.26	0.09
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05					
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter						
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil						
82082	Deuterium/Protium ratio, water, unfiltered, per mil					-44.90	-41.20
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil					-6.86	-6.76
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					7/26/2010	7/26/2010
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius					679	737
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/22/2011**	**8/22/2011**
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius					22.8	19.8
28	Agency analyzing sample, code					80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius					670	647
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter					0.00001	0.00002
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units					8.0	7.7
403	pH, water, unfiltered, laboratory, standard units					8.2	7.8
405	Carbon dioxide, water, unfiltered, milligrams per liter					2.4	6.3
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter					147	195
602	Total nitrogen, water, filtered, milligrams per liter					< 0.07	3.6
607	Organic nitrogen, water, filtered, milligrams per liter					< 0.02	0.05
608	Ammonia, water, filtered, milligrams per liter as nitrogen					0.031	0.011
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				< 0.001	< 0.001
618	Nitrate, water, filtered, milligrams per liter as nitrogen					< 0.020	3.52
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen					< 0.05	0.06
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					< 0.02	3.52
660	Orthophosphate, water, filtered, milligrams per liter					0.57	1.74
666	Phosphorus, water, filtered, milligrams per liter					0.17	0.54
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus					0.186	0.569
900	Hardness, water, milligrams per liter as calcium carbonate					107	178
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter					35.3	50.6
925	Magnesium, water, filtered, milligrams per liter					4.43	12.4
930	Sodium, water, filtered, milligrams per liter					95.0	67.5
931	Sodium adsorption ratio, water, number					4.01	2.20
932	Sodium fraction of cations, water, percent in equivalents of major cations					66	45
935	Potassium, water, filtered, milligrams per liter					2.01	2.14
940	Chloride, water, filtered, milligrams per liter	600				79.5	35.0
945	Sulfate, water, filtered, milligrams per liter	600				76.7	98.0
950	Fluoride, water, filtered, milligrams per liter	2 (b)				0.22	0.16
955	Silica, water, filtered, milligrams per liter					17.2	29.4
1000	Arsenic, water, filtered, micrograms per liter	10 (c)				3.6	2.0
1005	Barium, water, filtered, micrograms per liter	1000 (d)				20.0	45.9
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter					100	131
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300				3.3	3.7
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50				21.6	< 0.16
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter					321	295
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/22/2011**	**8/22/2011**
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)				5.5	1.8
1130	Lithium, water, filtered, micrograms per liter					8.15	7.16
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter						
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					118	153
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/22/2011**	**8/22/2011**
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate					122	161
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern						
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					8/22/2011	8/22/2011
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter						
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500				418	412
70301	Residue, water, filtered, sum of constituents, milligrams per liter					385	410

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/22/2011**	**8/22/2011**
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4					0.040	0.015
71851	Nitrate, water, filtered, milligrams per liter	45 (q)				< 0.089	15.6
71856	Nitrite, water, filtered, milligrams per liter					< 0.003	< 0.003
71865	Iodide, water, filtered, milligrams per liter					0.021	0.002
71870	Bromide, water, filtered, milligrams per liter					0.267	0.069
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05					
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter						
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil						
82082	Deuterium/Protium ratio, water, unfiltered, per mil					-45.61	-41.48
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil					-6.85	-6.56
82303	Rn-222, water, unfiltered, picocuries per liter						

Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date					**8/22/2011**	**8/22/2011**
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius					653	634
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

ANNUAL REPORT

COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX C-2

WOLF VALLEY GROUNDWATER MONITORING WELL

Site Description
Wolf Valley Groundwater Monitoring Well
(8S/2W-20J1-2)

LOCATION: Latitude 33º 27' 47", longitude 117º 06' 11", in Riverside County, California. Well is located in a residential neighborhood along the north side of Wolf Valley Road approximately 130 feet northeast of the intersection with Nightingale Road.

SITE INFORMATION: Land-surface altitude is 1076.23 feet above mean sea level from 24000 scale topographic map.

WATER-LEVEL RECORD:

State well number	USGS station number	Intermittent water-level	Daily water-level
8S/2W-20J1	332747117061101	03/05/1990 to present	10/18/2006 to present
8S/2W-20J2	332747117061102	03/05/1990 to present	10/23/2010 to present

TOPOGRAPHIC MAP: USGS Pechanga, California, 7.5 minute series.

WELL SUMMARY INFORMATION:

State well number	USGS station number	Hole depth (ft)	Perforation depth (ft)	Casing size and type	Date drilled
8S/2W-20J1	332747117061101	590	555-575	2" PVC	2/17/1990
8S/2W-20J2	332747117061102	590	160-180	2" PVC	2/18/1990

ADDITIONAL INFORMATION:

Additional information can be found at the following web site: http://ca.water.usgs.gov/temecula/.

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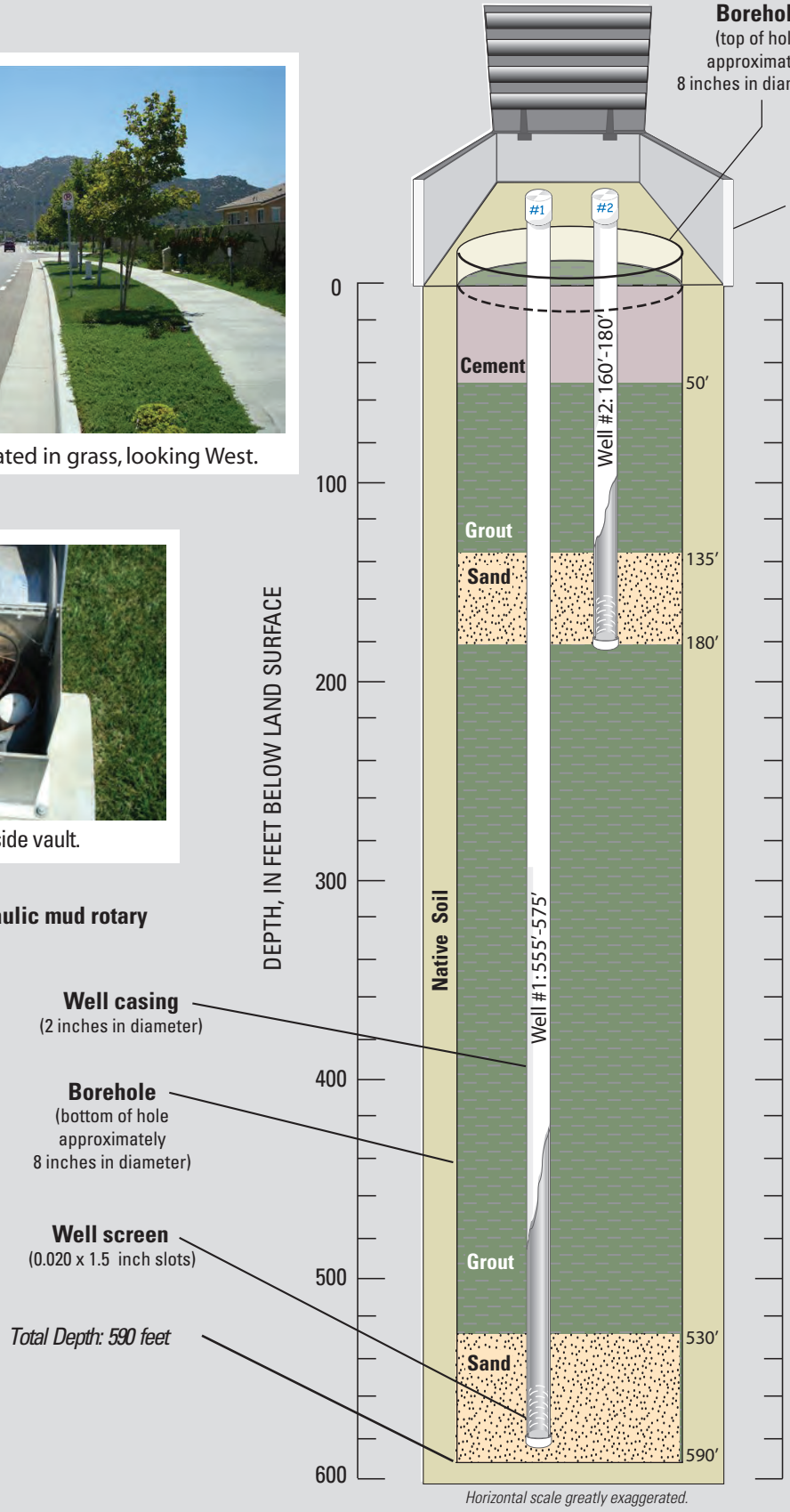
WELL CONSTRUCTION
MONITOTING WELLS VW5-20J1 and 2VW5-0J2

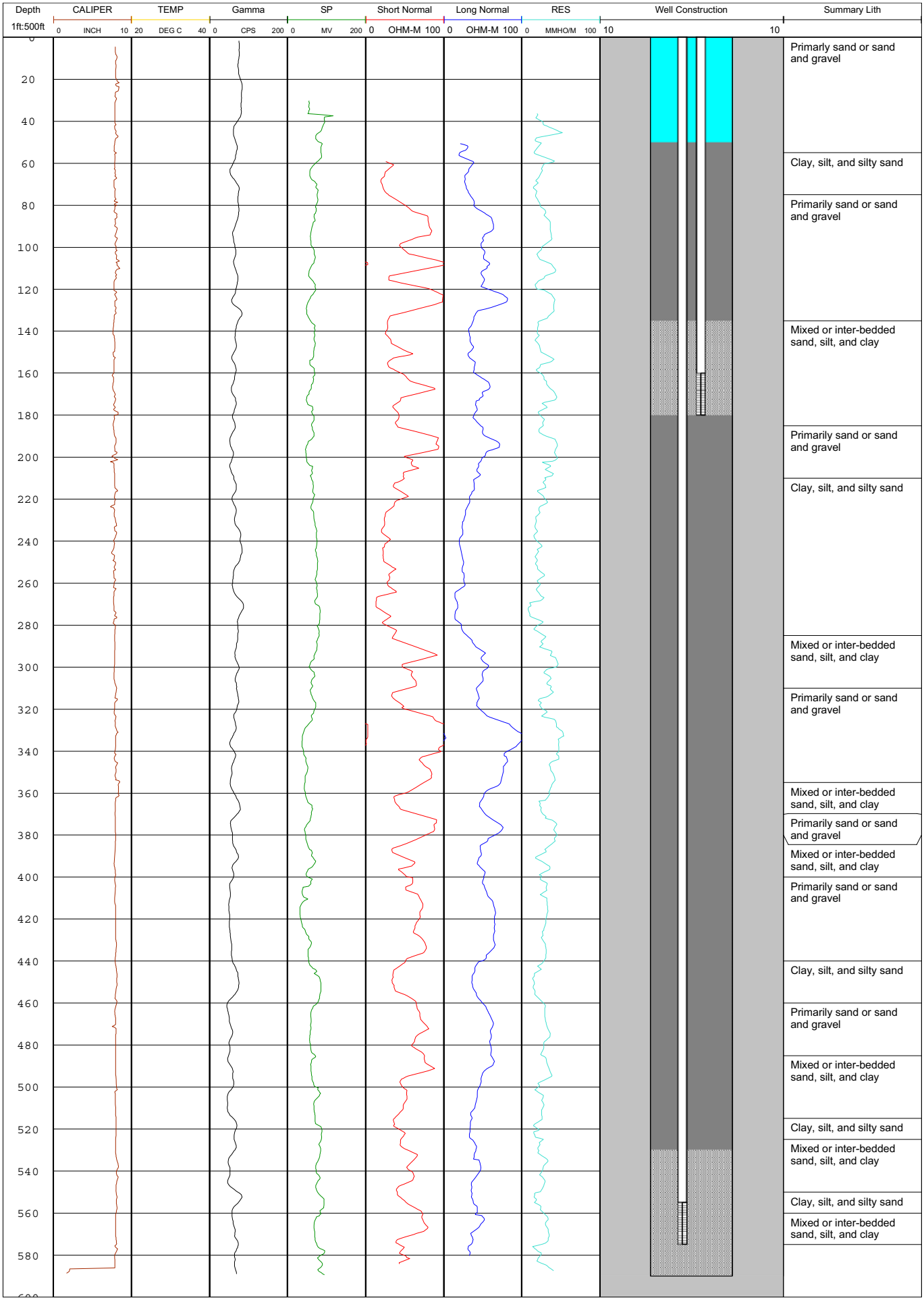
View of vault located in grass, looking West.

View of wells inside vault.

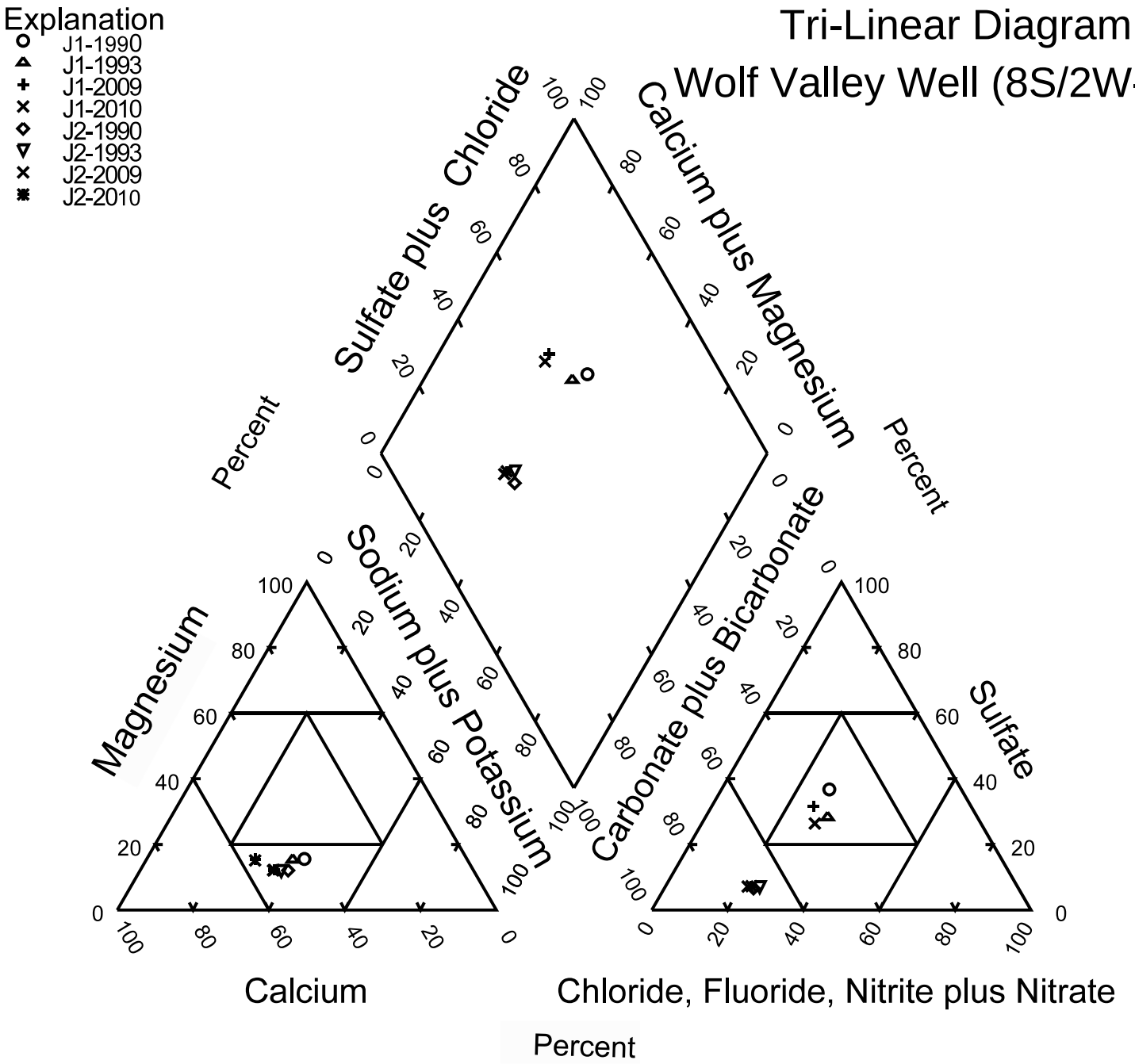
Drill method: hydraulic mud rotary



Source: USGS California Water Science Center.

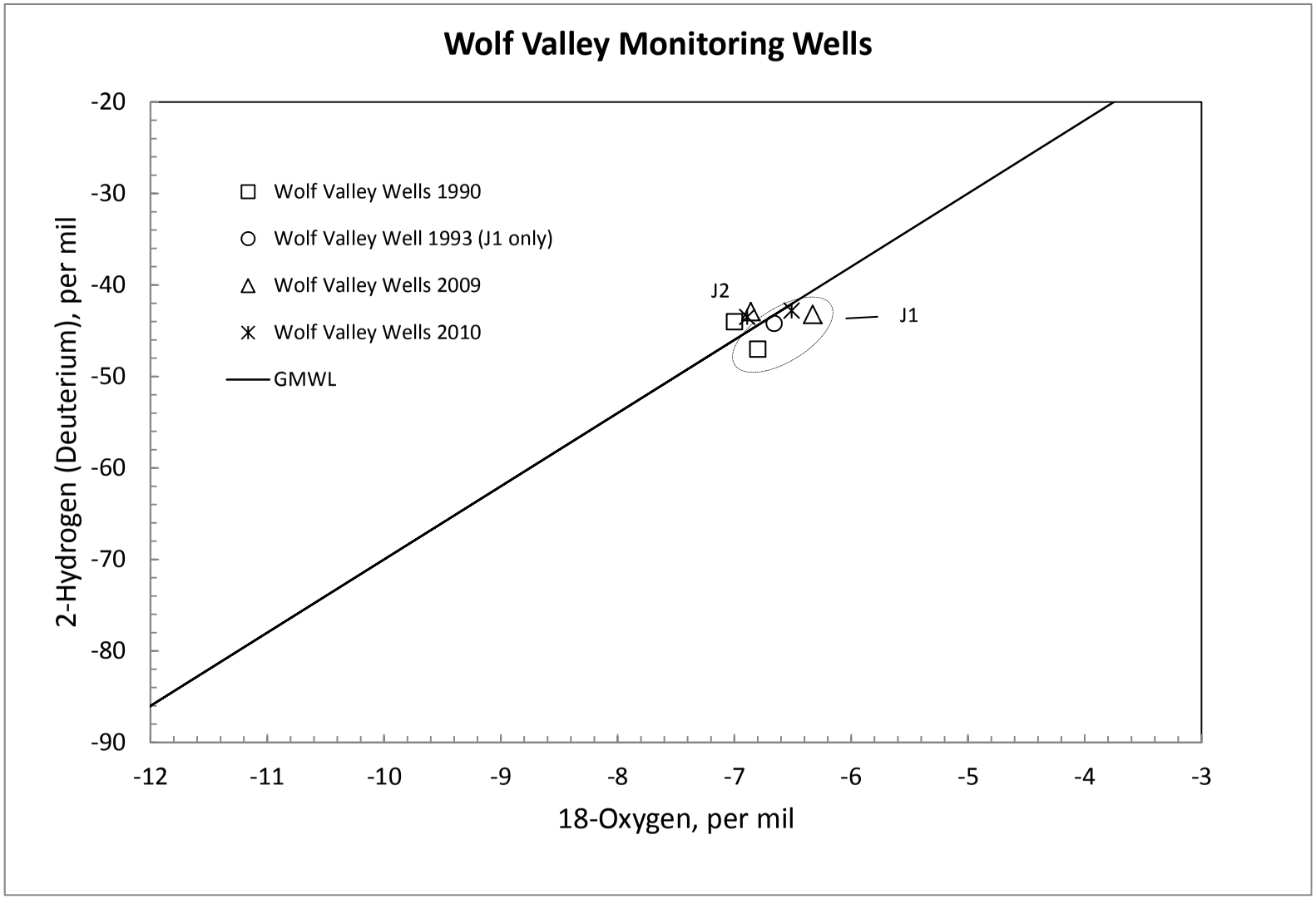

Depth
1ft:500ft
CALIPER
0 INCH 10
TEMP
20 DEG C 40
Gamma
0 CPS 200
SP
0 MV 200
Short Normal
0 OHM-M 100
Long Normal
0 OHM-M 100
RES
0 MMHO/M 100
Well Construction
10
10
Summary Lith
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
440
460
480
500
520
540
560
580
Primarly sand or sand and gravel
Clay, silt, and silty sand
Primarily sand or sand and gravel
Mixed or inter-bedded sand, silt, and clay
Primarily sand or sand and gravel
Clay, silt, and silty sand
Mixed or inter-bedded sand, silt, and clay
Primarily sand or sand and gravel
Mixed or inter-bedded sand, silt, and clay
Primarily sand or sand and gravel
Mixed or inter-bedded sand, silt, and clay
Primarily sand or sand and gravel
Clay, silt, and silty sand
Primarily sand or sand and gravel
Mixed or inter-bedded sand, silt, and clay
Clay, silt, and silty sand
Mixed or inter-bedded sand, silt, and clay
Clay, silt, and silty sand
Mixed or inter-bedded sand, silt, and clay

Tri-Linear Diagram
Wolf Valley Well (8S/2W-20J1-2)



Source: USGS California Water Science Center.

Stable Isotope Diagram



Source: USGS California Water Science Center.

Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)

March 1990 through December 2013

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Mar 5 1990	73.70	1002.53	Mar 5 1990	62.47	1013.76
Mar 15 1990	73.93	1002.30	Mar 15 1990	62.41	1013.82
May 3 1990			May 3 1990	62.21	1014.02
May 18 1990	72.93	1003.30			
Jul 3 1990	72.52	1003.71	Jul 3 1990	61.88	1014.35
Aug 2 1990	72.44	1003.79	Aug 2 1990	61.80	1014.43
Aug 15 1990	72.28	1003.95	Aug 15 1990	61.65	1014.58
Oct 31 1990	72.03	1004.20	Oct 31 1990	61.32	1014.91
Nov 14 1990	71.86	1004.37	Nov 14 1990	61.23	1015.00
Nov 29 1990	71.84	1004.39	Nov 29 1990	61.20	1015.03
Dec 10 1990	71.69	1004.54	Dec 10 1990	61.13	1015.10
Dec 19 1990			Dec 19 1990	61.12	1015.11
Jan 18 1991	71.48	1004.75	Jan 18 1991	61.06	1015.17
Jan 22 1991	71.43	1004.80	Jan 22 1991	61.05	1015.18
Jan 24 1991			Jan 24 1991	61.09	1015.14
Feb 6 1991	71.43	1004.80	Feb 6 1991	61.03	1015.20
Feb 22 1991	71.47	1004.76	Feb 22 1991	61.05	1015.18
Mar 6 1991	70.81	1005.42	Mar 6 1991	61.03	1015.20
Apr 12 1991	69.62	1006.61	Apr 12 1991	60.64	1015.59
Apr 26 1991			Apr 26 1991	60.50	1015.73
May 24 1991	69.40	1006.83	May 24 1991	60.43	1015.80
May 30 1991	69.43	1006.80	May 30 1991	60.38	1015.85
Jun 13 1991	69.62	1006.61	Jun 13 1991	60.40	1015.83
Jul 31 1991	69.76	1006.47	Jul 31 1991	60.35	1015.88
Aug 20 1991	69.76	1006.47	Aug 20 1991	60.29	1015.94
Nov 8 1991	70.15	1006.08	Nov 8 1991	60.49	1015.74
Nov 26 1991	70.17	1006.06	Nov 26 1991	60.57	1015.66
Dec 12 1991	70.28	1005.95	Dec 12 1991	60.67	1015.56
Jan 10 1992	70.03	1006.20	Jan 10 1992	60.68	1015.55
Jan 27 1992	70.01	1006.22	Jan 27 1992	60.74	1015.49
Feb 7 1992	69.81	1006.42	Feb 7 1992	60.73	1015.50
Feb 23 1992			Feb 23 1992	60.65	1015.58
Feb 28 1992	68.56	1007.67	Feb 28 1992		
Mar 13 1992	69.30	1006.93	Mar 13 1992	60.61	1015.62
Apr 10 1992	68.90	1007.33	Apr 10 1992	60.47	1015.76
May 1 1992	68.87	1007.36	May 1 1992	60.39	1015.84
May 28 1992	68.84	1007.39	May 28 1992	60.33	1015.90
Jun 19 1992	69.05	1007.18	Jun 19 1992	60.33	1015.90
Jul 15 1992	69.44	1006.79	Jul 15 1992	60.42	1015.81
Jul 23 1992	69.41	1006.82	Jul 23 1992	60.46	1015.77
Sep 1 1992	69.77	1006.46	Sep 1 1992	60.61	1015.62
Sep 17 1992	69.86	1006.37	Sep 17 1992	60.67	1015.56
Oct 15 1992	70.26	1005.97	Oct 15 1992	60.93	1015.30
Nov 17 1992	70.08	1006.15	Nov 17 1992	60.85	1015.38

Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)

March 1990 through December 2013

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Dec 30 1992	69.85	1006.38	Dec 30 1992	60.95	1015.28
Mar 16 1993	63.73	1012.50	Mar 16 1993	58.84	1017.39
Mar 22 1993	63.61	1012.62	Mar 22 1993	58.58	1017.65
Apr 13 1993	63.65	1012.58	Apr 13 1993	57.55	1018.68
Apr 22 1993	63.74	1012.49	Apr 22 1993	57.15	1019.08
Jul 1 1994	62.34	1013.89	Jul 1 1994		
Jul 28 1994	62.55	1013.68	Jul 28 1994		
Aug 17 1994	65.62	1010.61	Aug 17 1994		
Sep 1 1994	66.45	1009.78	Sep 1 1994		
Oct 3 1994	65.90	1010.33	Oct 3 1994		
Nov 1 1994	66.99	1009.24	Nov 1 1994		
Dec 6 1994	63.50	1012.73	Dec 6 1994		
Jan 4 1995	64.40	1011.83	Jan 4 1995		
Feb 7 1995	64.18	1012.05	Feb 7 1995		
Jul 21 1995	72.10	1004.13	Jul 21 1995		
Aug 11 1995	73.65	1002.58	Aug 11 1995		
Sep 5 1995	73.00	1003.23	Sep 5 1995		
Oct 3 1995	72.00	1004.23	Oct 3 1995		
Nov 3 1995	74.02	1002.21	Nov 3 1995		
Dec 4 1995	67.87	1008.36	Dec 4 1995		
Jan 3 1996	69.95	1006.28	Jan 3 1996		
Feb 8 1996	67.85	1008.38	Feb 8 1996		
Mar 18 1996	66.94	1009.29	Mar 18 1996		
Apr 15 1996	72.15	1004.08	Apr 15 1996		
May 1 1996	73.02	1003.21	May 1 1996		
Jun 3 1996	74.82	1001.41	Jun 3 1996		
Jul 10 1996	68.73	1007.50	Jul 10 1996		
Aug 2 1996	71.06	1005.17	Aug 2 1996		
Sep 3 1996	76.29	999.94	Sep 3 1996		
Oct 18 1996	70.85	1005.38	Oct 18 1996	48.14	1028.09
Nov 4 1996	71.23	1005.00	Nov 4 1996	48.35	1027.88
Dec 3 1996	75.12	1001.11	Dec 3 1996	48.21	1028.02
Jan 24 1997	69.65	1006.58	Jan 24 1997	48.72	1027.51
Feb 19 1997	75.90	1000.33	Feb 19 1997	48.63	1027.60
Mar 13 1997	81.92	994.31	Mar 13 1997	48.99	1027.24
Apr 9 1997	83.98	992.25	Apr 9 1997	49.62	1026.61
May 5 1997	87.42	988.81	May 5 1997	50.33	1025.90
Jun 2 1997	81.72	994.51	Jun 2 1997	51.06	1025.17
Jul 21 1997	86.62	989.61	Jul 21 1997	51.95	1024.28
Aug 15 1997	91.15	985.08	Aug 15 1997	52.58	1023.65
Sep 9 1997	87.44	988.79	Sep 9 1997	52.67	1023.56
Oct 16 1997	84.70	991.53	Oct 16 1997	53.58	1022.65
Nov 7 1997	91.69	984.54	Nov 7 1997	53.87	1022.36
Dec 12 1997	86.83	989.40	Dec 12 1997	54.82	1021.41

Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)

March 1990 through December 2013

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 23 1998	92.59	983.64	Jan 23 1998	55.23	1021.00
Mar 2 1998	86.91	989.32	Mar 2 1998	55.80	1020.43
Apr 8 1998	80.32	995.91	Apr 8 1998	55.09	1021.14
May 1 1998	91.32	984.91	May 1 1998	54.99	1021.24
Jun 2 1998	86.85	989.38	Jun 2 1998	55.38	1020.85
Jul 2 1998	87.34	988.89	Jul 2 1998	55.59	1020.64
Aug 11 1998	95.88	980.35	Aug 11 1998	56.08	1020.15
Sep 10 1998	92.12	984.11	Sep 10 1998	56.83	1019.40
Oct 16 1998	92.14	984.09	Oct 16 1998	57.39	1018.84
Nov 23 1998	100.48	975.75	Nov 23 1998	57.68	1018.55
Dec 7 1998	103.96	972.27	Dec 7 1998	57.95	1018.28
Jan 5 1999	107.46	968.77	Jan 5 1999	58.41	1017.82
Feb 1 1999	111.16	965.07	Feb 1 1999	59.07	1017.16
Mar 1 1999	102.08	974.15	Mar 1 1999	59.73	1016.50
Apr 8 1999	111.12	965.11	Apr 8 1999	60.67	1015.56
May 3 1999	119.83	956.40	May 3 1999		
Jun 10 1999	106.93	969.30	Jun 10 1999	62.43	1013.80
Jul 1 1999	111.31	964.92	Jul 1 1999	62.71	1013.52
Aug 3 1999	113.81	962.42	Aug 3 1999	63.75	1012.48
Sep 8 1999	113.84	962.39	Sep 8 1999	65.02	1011.21
Oct 15 1999	119.21	957.02	Oct 15 1999	65.73	1010.50
Nov 12 1999	116.71	959.52	Nov 12 1999	66.63	1009.60
Dec 14 1999	108.04	968.19	Dec 14 1999	66.94	1009.29
Jan 6 2000	109.89	966.34	Jan 6 2000	67.48	1008.75
Feb 9 2000	132.67	943.56	Feb 9 2000	67.99	1008.24
Mar 13 2000	121.62	954.61	Mar 13 2000	68.27	1007.96
Apr 3 2000	129.77	946.46	Apr 3 2000	68.94	1007.29
May 9 2000	143.04	933.19	May 9 2000	69.66	1006.57
Jun 5 2000	150.23	926.00	Jun 5 2000	70.35	1005.88
Jul 6 2000	134.48	941.75	Jul 6 2000	71.36	1004.87
Aug 1 2000	135.96	940.27	Aug 1 2000	71.74	1004.49
Sep 6 2000	135.44	940.79	Sep 6 2000	72.77	1003.46
Oct 4 2000	134.43	941.80	Oct 4 2000	72.36	1003.87
Nov 7 2000	153.91	922.32	Nov 7 2000	73.74	1002.49
Dec 6 2000	146.64	929.59	Dec 6 2000	74.68	1001.55
Jan 4 2001	143.95	932.28	Jan 4 2001	75.26	1000.97
Feb 1 2001	132.28	943.95	Feb 1 2001	75.66	1000.57
Mar 13 2001	124.13	952.10	Mar 13 2001	75.94	1000.29
Apr 6 2001	129.01	947.22	Apr 6 2001	76.32	999.91
May 4 2001	130.43	945.80	May 4 2001	76.64	999.59
Jun 7 2001	135.71	940.52	Jun 7 2001	76.81	999.42
Jul 3 2001	137.36	938.87	Jul 3 2001	77.23	999.00
Aug 2 2001	140.92	935.31	Aug 2 2001	77.96	998.27
Sep 6 2001	158.00	918.23	Sep 6 2001	78.55	997.68

Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)

March 1990 through December 2013

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Oct 3 2001	152.81	923.42	Oct 3 2001	78.94	997.29
Nov 1 2001	151.35	924.88	Nov 1 2001	79.48	996.75
Dec 5 2001	143.25	932.98	Dec 5 2001	80.14	996.09
Jan 4 2002	143.98	932.25	Jan 4 2002	80.69	995.54
Feb 13 2002	150.03	926.20	Feb 13 2002	81.22	995.01
Mar 5 2002	147.77	928.46	Mar 5 2002	81.47	994.76
Apr 2 2002	152.97	923.26	Apr 2 2002	82.04	994.19
May 1 2002	150.81	925.42	May 1 2002	82.23	994.00
Jun 3 2002	155.46	920.77	Jun 3 2002	82.63	993.60
Jul 2 2002	158.38	917.85	Jul 2 2002	83.15	993.08
Aug 1 2002	162.28	913.95	Aug 1 2002	83.44	992.79
Sep 3 2002	159.45	916.78	Sep 3 2002	83.88	992.35
Oct 3 2002	160.66	915.57	Oct 3 2002	84.35	991.88
Nov 1 2002	162.89	913.34	Nov 1 2002	84.83	991.40
Dec 2 2002	156.42	919.81	Dec 2 2002	85.20	991.03
Jan 10 2003	155.53	920.70	Jan 10 2003	85.75	990.48
Feb 4 2003	164.96	911.27	Feb 4 2003	86.02	990.21
Mar 3 2003	155.96	920.27	Mar 3 2003	86.33	989.90
Apr 2 2003	159.33	916.90	Apr 2 2003	86.72	989.51
May 1 2003	158.53	917.70	May 1 2003	86.98	989.25
Jun 2 2003	149.29	926.94	Jun 2 2003	87.22	989.01
Jul 7 2003	143.93	932.30	Jul 7 2003	87.60	988.63
Aug 1 2003	141.10	935.13	Aug 1 2003	87.79	988.44
Sep 2 2003	136.78	939.45	Sep 2 2003	88.02	988.21
Oct 3 2003	134.60	941.63	Oct 3 2003	88.15	988.08
Nov 3 2003	133.73	942.50	Nov 3 2003	88.33	987.90
Dec 5 2003	139.10	937.13	Dec 5 2003	88.40	987.83
Jan 15 2004	129.79	946.44	Jan 15 2004	88.51	987.72
Feb 12 2004	125.73	950.50	Feb 12 2004	88.70	987.53
Mar 8 2004	123.92	952.31	Mar 8 2004	88.62	987.61
Apr 13 2004	123.18	953.05	Apr 13 2004	88.61	987.62
May 10 2004	141.40	934.83	May 10 2004	88.82	987.41
Jun 1 2004	150.23	926.00	Jun 1 2004	88.68	987.55
Jul 1 2004	149.29	926.94	Jul 1 2004	88.93	987.30
Aug 2 2004	158.11	918.12	Aug 2 2004	89.15	987.08
Sep 1 2004	165.49	910.74	Sep 1 2004	89.40	986.83
Oct 1 2004	166.51	909.72	Oct 1 2004	89.69	986.54
Nov 3 2004	161.96	914.27	Nov 3 2004	89.87	986.36
Dec 8 2004	156.68	919.55	Dec 8 2004	90.29	985.94
Jan 4 2005	152.09	924.14	Jan 4 2005	90.31	985.92
Feb 4 2005	147.52	928.71	Feb 4 2005	90.28	985.95
Mar 2 2005	137.32	938.91	Mar 2 2005	90.02	986.21
Apr 8 2005	143.64	932.59	Apr 8 2005	89.22	987.01
May 9 2005	145.00	931.23	May 9 2005	88.24	987.99

Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)

March 1990 through December 2013

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jun 9 2005	168.88	907.35	Jun 9 2005	87.40	988.83
Jul 11 2005	161.44	914.79	Jul 11 2005	86.73	989.50
Aug 2 2005	161.15	915.08	Aug 2 2005	86.31	989.92
Sep 2 2005	144.41	931.82	Sep 2 2005	85.83	990.40
Oct 7 2005	145.01	931.22	Oct 7 2005	85.22	991.01
Nov 4 2005	140.62	935.61	Nov 4 2005	84.82	991.41
Dec 9 2005	132.75	943.48	Dec 9 2005	84.31	991.92
Jan 11 2006	128.07	948.16	Jan 11 2006	83.96	992.27
Feb 10 2006	141.72	934.51	Feb 10 2006	83.74	992.49
Mar 7 2006	129.78	946.45	Mar 7 2006	83.45	992.78
Apr 7 2006	123.89	952.34	Apr 7 2006	83.21	993.02
May 5 2006	133.10	943.13	May 5 2006	82.92	993.31
Jun 1 2006	126.68	949.55	Jun 1 2006	82.56	993.67
Jul 6 2006	142.38	933.85	Jul 6 2006	82.18	994.05
Aug 3 2006	145.94	930.29	Aug 3 2006	82.01	994.22
Sep 7 2006	156.98	919.25	Sep 7 2006	81.75	994.48
Sep 26 2006	157.61	918.62	Sep 26 2006		
Oct 13 2006	157.53	918.70	Oct 13 2006	81.70	994.53
Nov 7 2006	158.94	917.29	Nov 7 2006	81.71	994.52
Nov 17 2006	160.83	915.40	Nov 17 2006		
Dec 7 2006	178.24	897.99	Dec 7 2006	81.81	994.42
Dec 21 2006	161.13	915.10	Dec 21 2006		
Jan 3 2007	158.33	917.90	Jan 3 2007	81.96	994.27
Feb 2 2007	167.16	909.07	Feb 2 2007	82.13	994.10
Mar 7 2007	159.04	917.19	Mar 7 2007	82.21	994.02
Apr 5 2007	170.12	906.11	Apr 5 2007	82.21	994.02
Apr 5 2007	169.77	906.46	Apr 5 2007		
Apr 6 2007	167.92	908.31	Apr 6 2007		
Apr 9 2007	167.88	908.35	Apr 9 2007		
May 1 2007	171.87	904.36	May 1 2007	82.20	994.03
Jun 1 2007	156.08	920.15	Jun 1 2007	82.21	994.02
Jul 10 2007	164.26	911.97	Jul 10 2007		
Jul 11 2007			Jul 11 2007	82.19	994.04
Aug 6 2007	168.06	908.17	Aug 6 2007	82.12	994.11
Sep 14 2007	174.97	901.26	Sep 14 2007	82.37	993.86
Oct 3 2007	173.28	902.95	Oct 3 2007	82.36	993.87
Nov 7 2007	180.53	895.70	Nov 7 2007	82.63	993.60
Dec 4 2007	179.45	896.78	Dec 4 2007	82.67	993.56
Jan 15 2008	163.43	912.80	Jan 15 2008	82.97	993.26
Feb 21 2008	164.67	911.56	Feb 21 2008		
Mar 12 2008	169.01	907.22	Mar 12 2008	83.08	993.15
Apr 9 2008	167.88	908.35	Apr 9 2008		
Apr 18 2008	178.07	898.16	Apr 18 2008	83.16	993.07
May 1 2008	177.39	898.84	May 1 2008	83.22	993.01

Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)

March 1990 through December 2013

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
May 6 2008	169.97	906.26	May 6 2008		
May 28 2008	175.04	901.19	May 28 2008		
May 30 2008	174.62	901.61	May 30 2008		
Jun 2 2008	165.15	911.08	Jun 2 2008		
Jun 3 2008	173.91	902.32	Jun 3 2008	83.14	993.09
Jun 12 2008	174.22	902.01	Jun 12 2008		
Jul 2 2008	166.87	909.36	Jul 2 2008	83.29	992.94
Jul 30 2008	168.32	907.91	Jul 30 2008	83.37	992.86
Aug 8 2008	171.04	905.19	Aug 8 2008		
Sep 4 2008	171.07	905.16	Sep 4 2008	83.43	992.80
Oct 2 2008	172.10	904.13	Oct 2 2008	83.54	992.69
Nov 4 2008	173.31	902.92	Nov 4 2008	83.69	992.54
Dec 3 2008	169.48	906.75	Dec 3 2008	83.80	992.43
Jan 6 2009	159.51	916.72	Jan 6 2009	83.94	992.29
Jan 29 2009	157.55	918.68	Jan 29 2009	83.97	992.26
Mar 4 2009	157.14	919.09	Mar 4 2009	84.12	992.11
Apr 2 2009	165.09	911.14	Apr 2 2009	84.08	992.15
May 6 2009	169.97	906.26	May 6 2009	84.10	992.13
Jun 2 2009	165.15	911.08	Jun 2 2009	84.10	992.13
Jun 24 2009	177.81	898.42	Jun 24 2009	84.44	991.79
Aug 4 2009	167.70	908.53	Aug 4 2009	84.61	991.62
Aug 4 2009	167.36	908.87	Aug 4 2009		
Aug 27 2009	165.44	910.79	Aug 27 2009	84.65	991.58
Oct 2 2009	158.97	917.26	Oct 2 2009	84.82	991.41
Nov 3 2009	152.46	923.77	Nov 3 2009	84.76	991.47
Nov 30 2009	148.13	928.10	Nov 30 2009		
Jan 5 2010	141.72	934.51	Jan 5 2010	84.66	991.57
Feb 4 2010	135.75	940.48	Feb 4 2010	84.56	991.67
Mar 2 2010	129.56	946.67	Mar 2 2010	84.19	992.04
Mar 31 2010	135.54	940.69	Mar 31 2010	83.83	992.40
May 5 2010	135.05	941.18	May 5 2010	83.51	992.72
Jun 2 2010	136.83	939.40	Jun 2 2010	83.25	992.98
Jun 30 2010	136.29	939.94	Jun 30 2010	83.00	993.23
Jul 28 2010	138.64	937.59	Jul 28 2010	82.96	993.27
Aug 23 2010	138.86	937.37	Aug 23 2010	82.81	993.42
Sep 30 2010	141.18	935.05	Sep 30 2010	82.69	993.54
Oct 31 2010	131.83	944.40	Oct 31 2010	82.59	993.64
Nov 30 2010	128.89	947.34	Nov 30 2010	82.51	993.72
Dec 31 2010	122.00	954.23	Dec 31 2010	82.40	993.83
Jan 31 2011	122.34	953.89	Jan 31 2011	81.96	994.27
Feb 28 2011	115.97	960.26	Feb 28 2011	81.59	994.64
Mar 31 2011	111.73	964.50	Mar 31 2011	80.81	995.42
Apr 30 2011	114.10	962.13	Apr 30 2011	80.14	996.09
May 31 2011	108.96	967.27	May 31 2011	79.43	996.80

Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)

March 1990 through December 2013

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jun 30 2011	115.91	960.32	Jun 30 2011	78.67	997.56
Jul 31 2011	126.74	949.49	Jul 31 2011	78.31	997.92
Aug 31 2011	121.32	954.91	Aug 31 2011	78.02	998.21
Sep 30 2011	112.47	963.76	Sep 30 2011	77.45	998.78
Oct 28 2011	106.64	969.59	Oct 28 2011	76.89	999.34
Nov 30 2011	99.89	976.34	Nov 30 2011	75.83	1000.40
Dec 31 2011	95.89	980.34	Dec 31 2011	75.06	1001.17
Jan 31 2012	100.27	975.96	Jan 31 2012	74.45	1001.78
Feb 29 2012	102.56	973.67	Feb 29 2012	74.12	1002.11
Mar 31 2012	95.82	980.41	Mar 31 2012	73.43	1002.80
Apr 30 2012	94.62	981.61	Apr 30 2012	72.93	1003.30
May 31 2012	97.42	978.81	May 31 2012	72.19	1004.04
Jun 30 2012	95.64	980.59	Jun 30 2012	71.72	1004.51
Jul 31 2012	100.16	976.07	Jul 31 2012	71.40	1004.83
Aug 31 2012	100.80	975.43	Aug 31 2012	71.21	1005.02
Sep 30 2012	101.82	974.41	Sep 30 2012	71.09	1005.14
Oct 28 2012	101.44	974.79	Oct 28 2012	70.97	1005.26
Nov 30 2012	93.16	983.07	Nov 30 2012	70.50	1005.73
Dec 31 2012	94.90	981.33	Dec 31 2012	70.45	1005.78
Jan 31 2013	96.72	979.51	Jan 31 2013	70.07	1006.16
Feb 28 2013	101.55	974.68	Feb 28 2013	70.07	1006.16
Mar 31 2013	95.07	981.16	Mar 31 2013	69.56	1006.67
Apr 30 2013	91.12	985.11	Apr 30 2013	68.86	1007.37
May 31 2013	100.46	975.77	May 31 2013	68.99	1007.24
Jun 30 2013	92.76	983.47	Jun 30 2013	68.48	1007.75
Jul 31 2013	103.60	972.63	Jul 31 2013	69.06	1007.17
Aug 31 2013	106.38	969.85	Aug 31 2013	69.37	1006.86
Sep 30 2013	100.63	975.60	Sep 30 2013	69.42	1006.81
Oct 28 2013	100.75	975.48	Oct 28 2013	69.66	1006.57
Nov 30 2013	97.40	978.83	Nov 30 2013	69.73	1006.50
Dec 31 2013	92.44	983.79	Dec 31 2013	69.57	1006.66

Notes:
(1) Data reported as 12:00 PM reading for period March 1990 through September 2010.
(2) Data reported as daily median value for period October 2010 to present.

Source: USGS California Water Science Center.

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Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)

Code	Parameter	MCL	Well J1			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
3	Sampling depth, feet					
10	Temperature, water, degrees Celsius		20.5	20	21.8	21.7
28	Agency analyzing sample, code		80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute					
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		1150	863	898	775
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00002	0.00002		0.00003
300	Dissolved oxygen, water, unfiltered, milligrams per liter					
400	pH, water, unfiltered, field, standard units		7.8	7.8	7.5	7.5
403	pH, water, unfiltered, laboratory, standard units		8.1	7.7	7.6	7.6
405	Carbon dioxide, water, unfiltered, milligrams per liter		7.2			12
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter				253	223
602	Total nitrogen, water, filtered, milligrams per liter		1.5			< 4.1
607	Organic nitrogen, water, filtered, milligrams per liter					< 0.10
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.01	< 0.01	< 0.020	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.01	< 0.002	0.001 E
618	Nitrate, water, filtered, milligrams per liter as nitrogen					4.05 E
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.2		< 0.01	< 0.10
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		1.3	3.6	3.42	4.05
660	Orthophosphate, water, filtered, milligrams per liter		0.123	0.092		0.114
666	Phosphorus, water, filtered, milligrams per liter		0.04		0.03 E	0.03 E
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.04	0.03	0.029	0.037
900	Hardness, water, milligrams per liter as calcium carbonate		340	270		282
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		110	71		99
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate					94
915	Calcium, water, filtered, milligrams per liter		100	80	102	88.8
925	Magnesium, water, filtered, milligrams per liter		22	16	17.1	14.60
930	Sodium, water, filtered, milligrams per liter		110	76	59.2	51.5
931	Sodium adsorption ratio, water, number		2.6	2		1.34
932	Sodium fraction of cations, water, percent in equivalents of major cations		41	38		28
935	Potassium, water, filtered, milligrams per liter		2.3	1.4	1.51	1.35
940	Chloride, water, filtered, milligrams per liter	600	110	86	71.9	64.4
945	Sulfate, water, filtered, milligrams per liter	600	200	112	129	89.5
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.5		0.08 E	0.12
955	Silica, water, filtered, milligrams per liter		25	23	29.0	26.7
1000	Arsenic, water, filtered, micrograms per liter	10 (c)		2	1.2	1.1
1005	Barium, water, filtered, micrograms per liter	1000 (d)		61	65.9	56.6
1010	Beryllium, micrograms per liter	4 (e)		< 0.5		
1020	Boron, water, filtered, micrograms per liter		110	70	59	55
1025	Cadmium, micrograms per liter	5 (f)		< 1		
1030	Chromium, micrograms per liter	50 (g)		< 5		
1035	Cobalt, micrograms per liter			< 3		
1040	Copper, micrograms per liter	1000 (h)		< 10		
1046	Iron, water, filtered, micrograms per liter	300	< 3	< 3	2 E	< 6
1049	Lead, micrograms per liter			< 10		
1056	Manganese, water, filtered, micrograms per liter	50	51	5	< 0.2	< 0.2
1057	Thallium, micrograms per liter	2 (i)				
1060	Molybdenum, micrograms per liter			< 10		
1065	Nickel, micrograms per liter	100 (j)		< 10		
1075	Silver, micrograms per liter	100 (k)		1		
1080	Strontium, water, filtered, micrograms per liter			310	479	413
1085	Vanadium, micrograms per liter			18		
1090	Zinc, micrograms per liter	5000 (l)		< 3		
1095	Antimony, micrograms per liter	6 (m)				
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)			< 4.0	4.1
1130	Lithium, water, filtered, micrograms per liter			7	8	8

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)

Code	Parameter	MCL	Well J1			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
1145	Selenium, micrograms per liter	50 (o)		< 1		
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter				4.0	3.9
22703	Uranium, natural, micrograms per liter					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate				215	189
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.06	
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter				< 0.10	
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150			< 0.02	
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1			< 0.02	
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter				< 0.4	
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70			< 0.02	
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300			< 0.04	
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter				< 0.4	
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150			0.05 E	
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6			< 0.02	
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200			< 0.02	
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5			< 0.06	
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1			< 0.10	
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600			< 0.02	
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10			< 0.02	
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter				< 0.10	
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter				< 0.2	

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)

Code	Parameter	MCL	Well J1			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.10	
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.10	
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		240	200		
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate				207	184
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.1	
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter					
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern				96.47	98.33
49934	C-14, counting error, water, filtered, percent modern				0.320	0.320
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter				< 0.6	
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.04	
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.06	
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6				
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)

Code	Parameter	MCL	Well J1			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
62005	Cotinine, water, filtered, recoverable, micrograms per liter					
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Triclosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6				
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	596		531	482
70301	Residue, water, filtered, sum of constituents, milligrams per liter		717	528		466 E
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4					< 0.026
71851	Nitrate, water, filtered, milligrams per liter	45 (q)				17.9 E
71856	Nitrite, water, filtered, milligrams per liter					0.004 E
71865	Iodide, water, filtered, milligrams per liter				0.003	0.001 E
71870	Bromide, water, filtered, milligrams per liter				0.36	0.35
72019	Depth to water level, feet below land surface		72.28			

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)

Code	Parameter	MCL	Well J1			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter				< 0.4	
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter				< 0.1	
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
77041	Carbon disulfide, water, unfiltered, micrograms per liter				< 0.04	
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6			< 0.02	
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				< 0.6	
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100			< 0.04	
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter				< 0.80	
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter				< 0.12	
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05			< 0.04	
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.1	
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter				< 0.08	
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				< 0.4	
81552	Acetone, water, unfiltered, recoverable, micrograms per liter				< 4	
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.1	
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.06	
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter				< 0.2	
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				< 1.6	
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter				< 0.2	
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter				< 1	
82081	C-13/C-12 ratio, water, unfiltered, per mil				-15.29	-15.56
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-47	-44.2	-43.20	-42.80
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-6.8	-6.66	-6.33	-6.51
82303	Rn-222, water, unfiltered, picocuries per liter					
82346	Ethion, water, filtered, recoverable, micrograms per liter					
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter				< 1.0	
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)

Code	Parameter	MCL	Well J1			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter				< 0.08	
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		1130	868	911	787
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter					
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery				131	
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery				86.4	
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery				85.9	
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:
(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)

Code	Parameter	MCL	Well J2			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
3	Sampling depth, feet					
10	Temperature, water, degrees Celsius		19	19	20.8	20.8
28	Agency analyzing sample, code		80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute					
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius			400	423	422
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00003	0.00003		0.00003
300	Dissolved oxygen, water, unfiltered, milligrams per liter					
400	pH, water, unfiltered, field, standard units		7.6	7.6	7.5	7.5
403	pH, water, unfiltered, laboratory, standard units		8.6	7.6	7.5	7.6
405	Carbon dioxide, water, unfiltered, milligrams per liter		7.7			9.7
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter				193	193
602	Total nitrogen, water, filtered, milligrams per liter		1.7			< 1.7
607	Organic nitrogen, water, filtered, milligrams per liter					< 0.10
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.01	< 0.01	0.012 E	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.01	< 0.002	0.001 E
618	Nitrate, water, filtered, milligrams per liter as nitrogen					1.57 E
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.5		< 0.01	< 0.10
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		1.2	1.2	1.58	1.57
660	Orthophosphate, water, filtered, milligrams per liter		0.675	0.307		0.306
666	Phosphorus, water, filtered, milligrams per liter		0.23		0.09	0.09
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.22	0.1	0.096	0.100
900	Hardness, water, milligrams per liter as calcium carbonate		130	130		141
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate					
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate					
915	Calcium, water, filtered, milligrams per liter		42	42	43.5	45.6
925	Magnesium, water, filtered, milligrams per liter		6.3	6	6.02	6.42
930	Sodium, water, filtered, milligrams per liter		38	35	32.6	34.7
931	Sodium adsorption ratio, water, number		1.4	1.3		1.27
932	Sodium fraction of cations, water, percent in equivalents of major cations		39	37		35
935	Potassium, water, filtered, milligrams per liter		0.8	0.8	0.84	0.83
940	Chloride, water, filtered, milligrams per liter	600	27	29	24.4	25.9
945	Sulfate, water, filtered, milligrams per liter	600	12	12	13.0	13.2
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.7		0.28	0.31
955	Silica, water, filtered, milligrams per liter		28	25	28.3	25.7
1000	Arsenic, water, filtered, micrograms per liter	10 (c)		1	1.0	0.96
1005	Barium, water, filtered, micrograms per liter	1000 (d)		40	42.8	42.5
1010	Beryllium, micrograms per liter	4 (e)		< 0.5		
1020	Boron, water, filtered, micrograms per liter		60	50	37	37
1025	Cadmium, micrograms per liter	5 (f)		< 1		
1030	Chromium, micrograms per liter	50 (g)		< 5		
1035	Cobalt, micrograms per liter			< 3		
1040	Copper, micrograms per liter	1000 (h)		< 10		
1046	Iron, water, filtered, micrograms per liter	300	< 3	< 3	< 4	< 6
1049	Lead, micrograms per liter			< 10		
1056	Manganese, water, filtered, micrograms per liter	50	< 1	< 1	0.2 E	0.1 E
1057	Thallium, micrograms per liter	2 (i)				
1060	Molybdenum, micrograms per liter			< 10		
1065	Nickel, micrograms per liter	100 (j)		< 10		
1075	Silver, micrograms per liter	100 (k)		< 1		
1080	Strontium, water, filtered, micrograms per liter			170	175	183
1085	Vanadium, micrograms per liter			15		
1090	Zinc, micrograms per liter	5000 (l)		4		
1095	Antimony, micrograms per liter	6 (m)				
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)			< 4.0	6.3
1130	Lithium, water, filtered, micrograms per liter			5	5	6

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)

Code	Parameter	MCL	Well J2			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
1145	Selenium, micrograms per liter	50 (o)		< 1		
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter				5.5	5.2
22703	Uranium, natural, micrograms per liter					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate				163	162
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.06	
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter				< 0.10	
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150			< 0.02	
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1			< 0.02	
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter				< 0.4	
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70			< 0.02	
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300			< 0.04	
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter				< 0.4	
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150			0.15	
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6			< 0.02	
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200			< 0.02	
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5			< 0.06	
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1			< 0.10	
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600			< 0.02	
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10			< 0.02	
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			< 0.04	
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter				< 0.10	
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter				< 0.2	

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)

Code	Parameter	MCL	Well J2			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.10	
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.10	
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		160	150		
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate				158	159
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.1	
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter					
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern				103.4	103.3
49934	C-14, counting error, water, filtered, percent modern				0.360	0.400
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter				< 0.6	
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.04	
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.06	
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6				
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)

Code	Parameter	MCL	Well J2			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
62005	Cotinine, water, filtered, recoverable, micrograms per liter					
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Triclosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6				
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	216		265	250
70301	Residue, water, filtered, sum of constituents, milligrams per liter		255	247		256 E
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4					< 0.026
71851	Nitrate, water, filtered, milligrams per liter	45 (q)				6.94 E
71856	Nitrite, water, filtered, milligrams per liter					0.003 E
71865	Iodide, water, filtered, milligrams per liter				0.001 E	< 0.002
71870	Bromide, water, filtered, milligrams per liter				0.09	0.09
72019	Depth to water level, feet below land surface		61.65			

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)

Code	Parameter	MCL	Well J2			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter				< 0.4	
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter				< 0.1	
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
77041	Carbon disulfide, water, unfiltered, micrograms per liter				< 0.04	
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6			< 0.02	
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				< 0.6	
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100			< 0.04	
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter				< 0.06	
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter				< 0.80	
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter				< 0.12	
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05			< 0.04	
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter				< 0.04	
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.1	
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter				< 0.08	
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				< 0.4	
81552	Acetone, water, unfiltered, recoverable, micrograms per liter				< 4	
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter				< 0.02	
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.1	
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.06	
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter				< 0.2	
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				< 1.6	
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter				< 0.2	
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter				< 1	
82081	C-13/C-12 ratio, water, unfiltered, per mil				-14.99	-15.11
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-44		-42.90	-43.50
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-7		-6.86	-6.89
82303	Rn-222, water, unfiltered, picocuries per liter					
82346	Ethion, water, filtered, recoverable, micrograms per liter					
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter				< 1.0	
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)

Code	Parameter	MCL	Well J2			
	Sampling date		8/15/1990	12/20/1993	8/4/2009	7/26/2010
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter				< 0.08	
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		404	408	433	422
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter					
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery				133	
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery				85.7	
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery				87.2	
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:
(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

ANNUAL REPORT

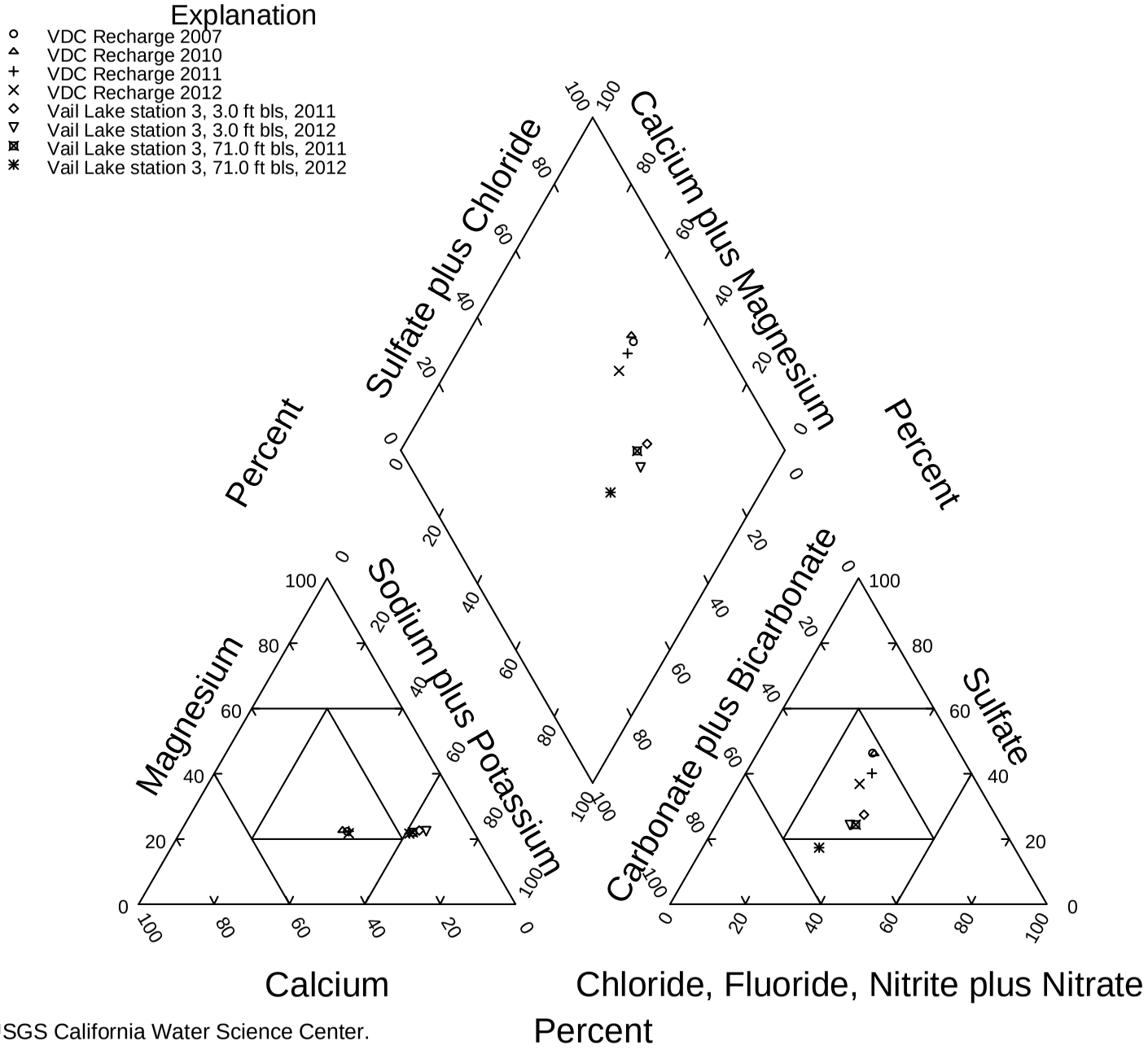
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX D-1

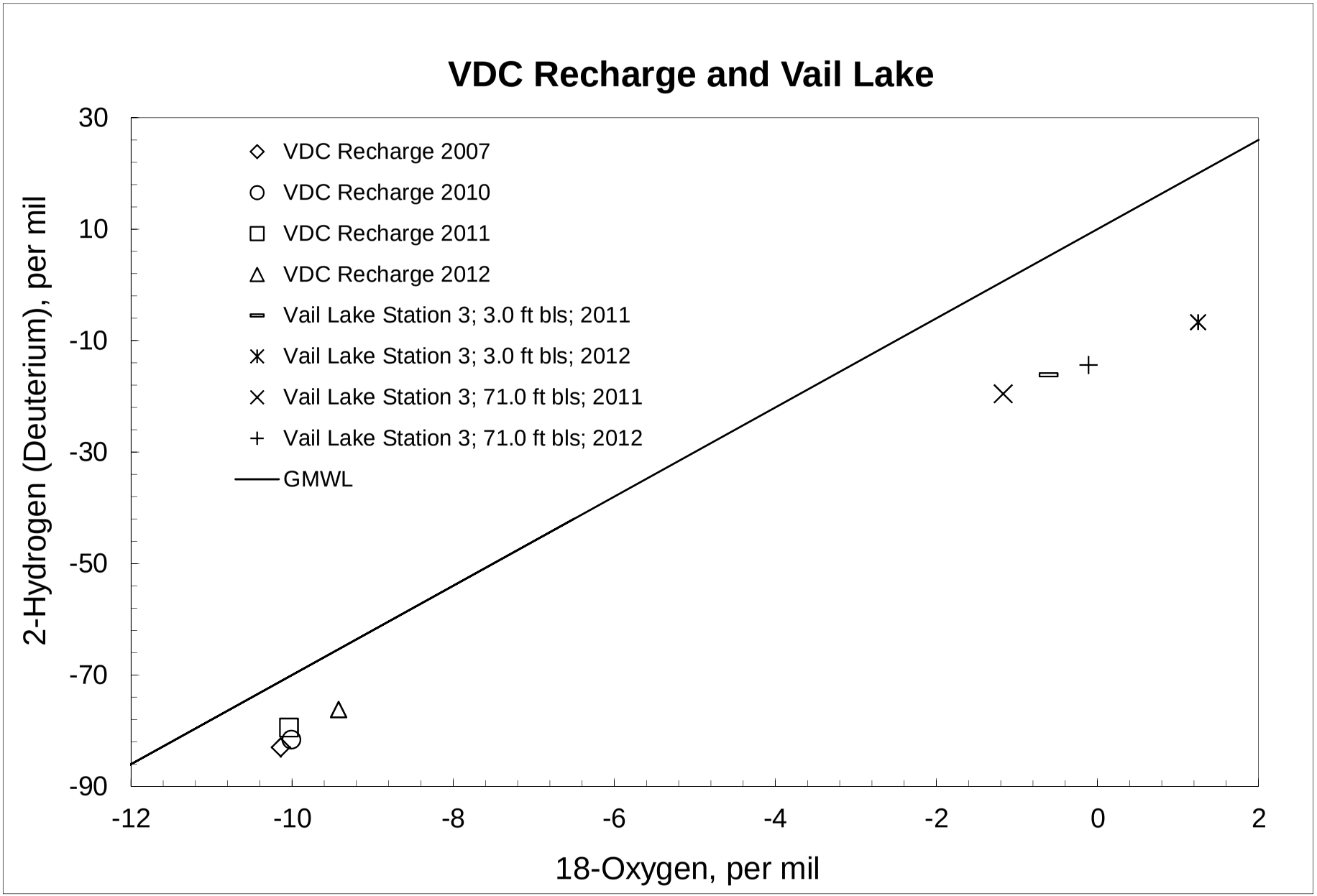
WATER QUALITY DATA FOR IMPORTED WATER DELIVERED TO RCWD UPPER VDC RECHARGE BASINS

Tri-Linear Diagram
VDC Recharge and Vail Lake



Source: USGS California Water Science Center.

Stable Isotope Diagram



Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5	Pond 5	Pond 5	Pond 5	
	Sampling date		**9/17/2007**	**7/28/2010**	**8/22/2011**	**8/21/2012**	
	Estimated Percentage of State Project Water Reported by Metropolitan Water District		28%	19%	63%	51%	
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		24.5	25.4	33.0	27.8	
28	Agency analyzing sample, code		80020	80020	80020	80020	
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		847	875	590	644	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00001	0.00001	0.00001	0.00001	
300	Dissolved oxygen, water, unfiltered, milligrams per liter		6.1			6.5	
400	pH, water, unfiltered, field, standard units		7.9	8.1	7.9	7.9	
403	pH, water, unfiltered, laboratory, standard units		8.0	8.1	8.1	8.1	
405	Carbon dioxide, water, unfiltered, milligrams per liter		2.5	1.8	2.1	2.4	
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter			138	102	116	
602	Total nitrogen, water, filtered, milligrams per liter			0.3	0.41	0.36	
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.18	0.14	0.2	0.19	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.020	0.022	0.011	0.012	
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.002	0.003	< 0.001	< 0.001	
618	Nitrate, water, filtered, milligrams per liter as nitrogen		< 0.227	0.141	0.197	0.16	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen			0.16	0.21	0.2	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		0.23	0.14	0.2	0.16	
660	Orthophosphate, water, filtered, milligrams per liter		0.068	0.034	0.137	0.1	
666	Phosphorus, water, filtered, milligrams per liter			< 0.04	0.05	0.04	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.022	0.011	0.045	0.033	
900	Hardness, water, milligrams per liter as calcium carbonate		232	256	150	176	
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate			141	66	80	
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate		120	138	69	76	
915	Calcium, water, filtered, milligrams per liter		55.4	62.0	35.7	42.6	
925	Magnesium, water, filtered, milligrams per liter		22.4	24.3	14.7	16.9	
930	Sodium, water, filtered, milligrams per liter		81.4	85.3	53.4	63.7	
931	Sodium adsorption ratio, water, number		2.33	2.33	1.90	2.09	
932	Sodium fraction of cations, water, percent in equivalents of major cations		43	42	43	44	
935	Potassium, water, filtered, milligrams per liter		4.49	4.36	3.06	3.45	
940	Chloride, water, filtered, milligrams per liter	600	84.9	87.8	60.6	68.7	
945	Sulfate, water, filtered, milligrams per liter	600	177	195	99	109	
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.26	0.3	0.17	0.18	
955	Silica, water, filtered, milligrams per liter		8.95	6.8	9.63	8.8	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	2.5	2.5	2.6	2.5	
1005	Barium, water, filtered, micrograms per liter	1000 (d)	107	96.1	56.2	55.4	
1010	Beryllium, micrograms per liter	4 (e)	< 0.06				
1020	Boron, water, filtered, micrograms per liter		138	147	122	133	
1025	Cadmium, micrograms per liter	5 (f)	< 0.04				
1030	Chromium, micrograms per liter	50 (g)	0.11 E				
1035	Cobalt, micrograms per liter		0.04 E				
1040	Copper, micrograms per liter	1000 (h)	4.9				
1046	Iron, water, filtered, micrograms per liter	300	6	4 E	7.3	< 3.2	
1049	Lead, micrograms per liter		0.62				
1056	Manganese, water, filtered, micrograms per liter	50	1.1	0.4	2.26	1.94	
1057	Thallium, micrograms per liter	2 (i)	< 0.04				
1060	Molybdenum, micrograms per liter		4.7				
1065	Nickel, micrograms per liter	100 (j)	1.2				
1075	Silver, micrograms per liter	100 (k)	< 0.10				
1080	Strontium, water, filtered, micrograms per liter		820	871	472	513	
1085	Vanadium, micrograms per liter		3				
1090	Zinc, micrograms per liter	5000 (l)	5				

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5	Pond 5	Pond 5	Pond 5	
	Sampling date		**9/17/2007**	**7/28/2010**	**8/22/2011**	**8/21/2012**	
1095	Antimony, micrograms per liter	6 (m)	0.29				
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	1.3 E	< 3.4	2	< 2.2	
1130	Lithium, water, filtered, micrograms per liter		33.1	48	24.4	24.5	
1145	Selenium, micrograms per liter	50 (o)	1.4				
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		19.8				
22703	Uranium, natural, micrograms per liter		3.81				
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		111	118	81.5	99.9	
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		0.12				
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		17.2				
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08				
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1				
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		7.28				
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		16.1				
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		9.69				
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	0.06 E				
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.02				
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4				
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02				
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1				
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.02				
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1				
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4				
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1				
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	0.1 E				
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04				
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08				
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06				
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02				
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.04				
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04				
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.10				
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.04				
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02				
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.02				
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.1				

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5	Pond 5	Pond 5	Pond 5	
	Sampling date		9/17/2007	7/28/2010	8/22/2011	8/21/2012	
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04				
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14				
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.4				
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.10				
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06				
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate			115	84.7	96.2	
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1				
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02				
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.1				
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern		89.1				
49934	C-14, counting error, water, filtered, percent modern		0.38				
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.4				
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1				
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1				
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1				
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04				
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04				
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5	Pond 5	Pond 5	Pond 5	
	Sampling date		9/17/2007	7/28/2010	8/22/2011	8/21/2012	
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter		0.41				
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6	1.11				
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	526	516	362	384	

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5	Pond 5	Pond 5	Pond 5	
	Sampling date		**9/17/2007**	**7/28/2010**	**8/22/2011**	**8/21/2012**	
70301	Residue, water, filtered, sum of constituents, milligrams per liter		503 E	537 E	329	372	
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4		< 0.026	0.029	0.014	0.015	
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	< 1.00	0.623	0.872	0.708	
71856	Nitrite, water, filtered, milligrams per liter		< 0.007	0.011	< 0.003	< 0.003	
71865	Iodide, water, filtered, milligrams per liter			0.012	0.004	0.008	
71870	Bromide, water, filtered, milligrams per liter		0.06	0.10	0.075	0.122	
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6				
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.1				
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.6				
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		15				
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.06				
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02				
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4				
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04				
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06				
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.1				
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1				
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		0.09 E				
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1				
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08				
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08				
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.40				
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12				
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04				
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1				
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04				
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04				
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.10				
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.08				
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.2				
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6				
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02				
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1				
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06				
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4				
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6				
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2				
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1				
82081	C-13/C-12 ratio, water, unfiltered, per mil		-6.46				
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-83	-81.6	-79.4	-76.2	
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.14	-10.01	-10.04	-9.42	

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5	Pond 5	Pond 5	Pond 5	
	Sampling date		9/17/2007	7/28/2010	8/22/2011	8/21/2012	
82303	Rn-222, water, unfiltered, picocuries per liter		0				
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.5				
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.08				
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		859	868	568	625	
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter		50.2				
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter		50.2				
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

ANNUAL REPORT

COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX D-2

WATER QUALITY DATA FOR VAIL LAKE

Vail Lake Water Quality Sampling Locations

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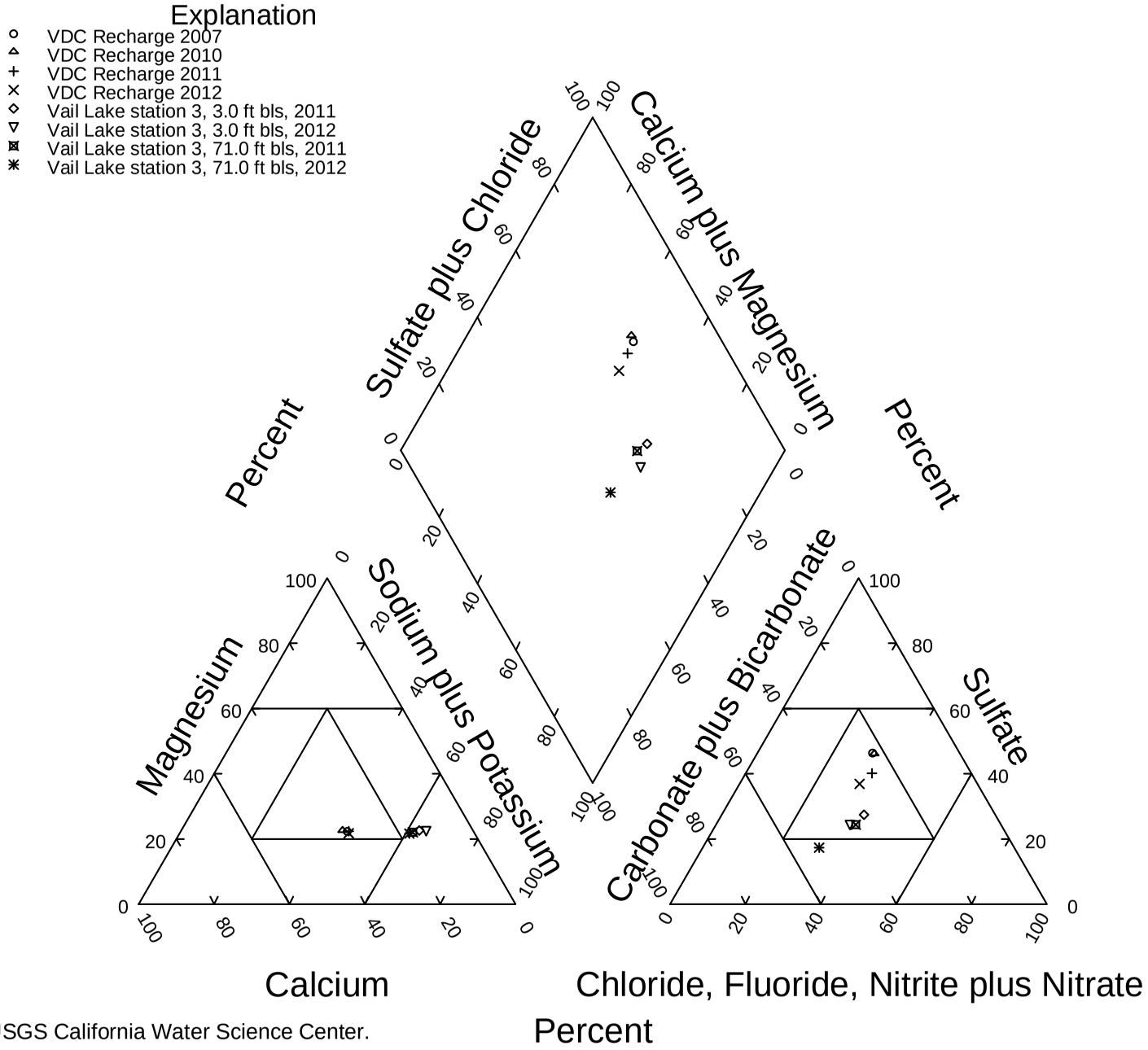
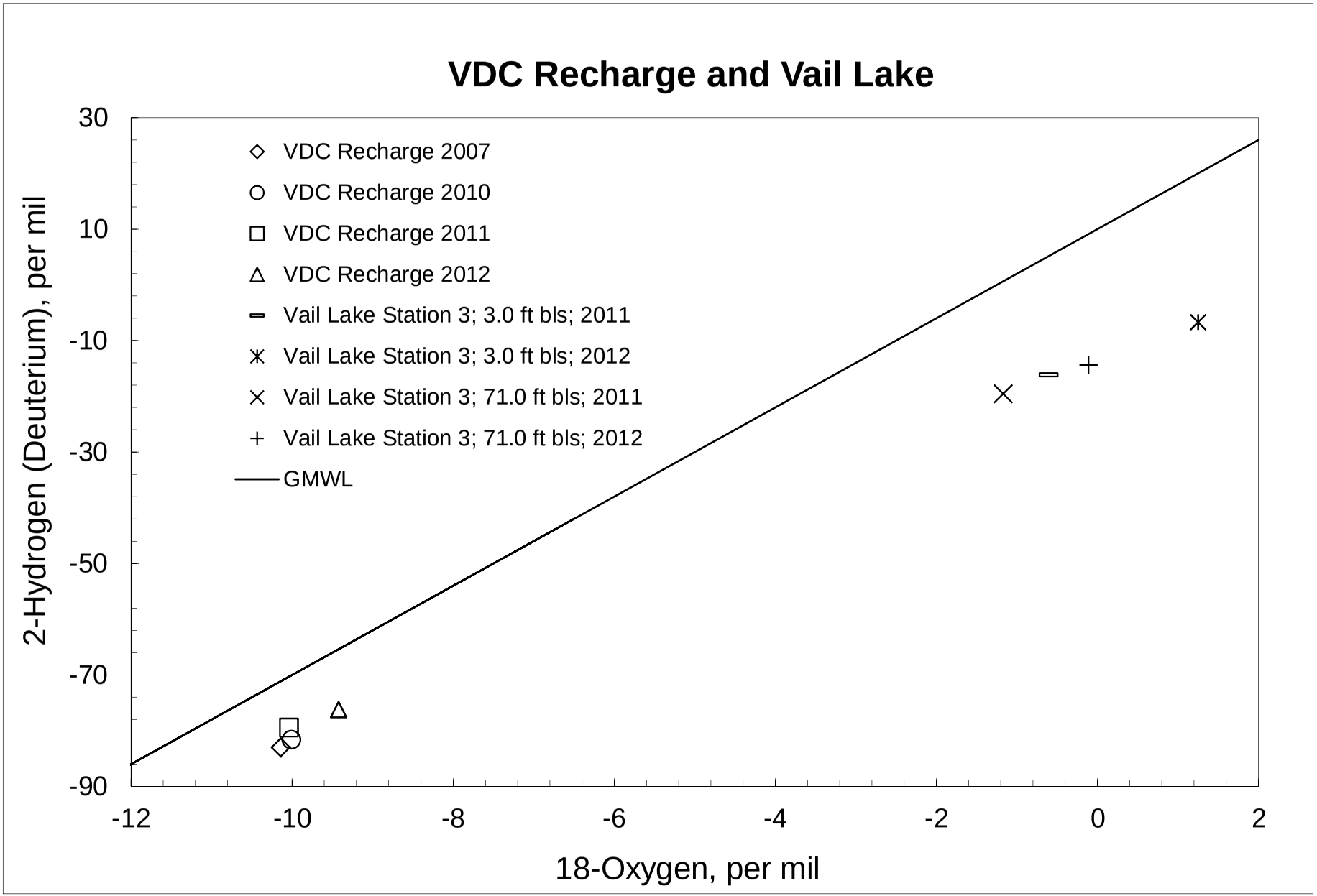
Tri-Linear Diagram
VDC Recharge and Vail Lake



Source: USGS California Water Science Center.

Stable Isotope Diagram



Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD

Parameter	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M
Sampling Date	**9/22/2009**	**10/21/2009**	**11/18/2009**	**5/26/2010**	**6/17/2010**	**8/14/2010**	**9/18/2010**
Reservoir Storage Content, acre feet	22,030	21,630	21,230	25,790	25,490	24,510	24,000
Reservoir Storage Content, percent full	44.6%	43.8%	43.0%	52.2%	51.6%	49.6%	48.6%
Water Surface Elevation, feet above mean sea level	1,438.92	1,438.34	1,437.76	1,444.13	1,443.74	1,442.42	1,441.71
Water Surface Elevation, feet above bottom of lowest outlet	86.42	85.84	85.26	91.63	91.24	89.92	89.21
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter			10.7	7.98	8.54	6	
pH, standard units		8.98	8.72	9.11	9.29	9.49	
Total Dissolved Solids, milligrams per liter							
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius		1274	1058	1172	1174	1193	1210
Temperature, water, degrees Celsius		19.84	16.02	19.90	22.84	23.88	22.51
Aluminum, micrograms per liter							ND
Ammonia, milligrams per liter as nitrogen	ND	ND	ND	ND		ND	ND
Antimony, micrograms per liter							ND
Arsenic, micrograms per liter							ND
Barium, micrograms per liter							25
Beryllium, micrograms per liter							ND
Bicarbonate as HCO3, milligrams per liter	260	290	300	240		150	180
Carbonate as CO3, milligrams per liter	12	ND	ND	14		48	34
Chloride, milligrams per liter	180		180	130		150	160
Cyanide, milligrams per liter							ND
Fluoride, milligrams per liter							0.5
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND		ND	ND
Inorganic Nitrogen, milligrams per liter	ND	ND	ND	ND		ND	ND
Kjeldahl Nitrogen, milligrams per liter							
Lead, micrograms per liter							ND
Mercury, micrograms per liter							ND
Nickel, micrograms per liter							ND
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND		ND	ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND		ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	0.053	ND		ND	ND
Perchlorate, micrograms per liter							ND
Selenium, micrograms per liter							ND
Silver, micrograms per liter							ND
Sulfate, milligrams per liter	180		180	140		150	170
Thalium, micrograms per liter							ND
Total Alkalinity as CaCO3, milligrams per liter	230	240	250	220		200	200
Total Chromium, micrograms per liter							ND
Total Suspended Solids, milligrams per liter	ND	ND	7	8		18	13

Notes:
Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD

Parameter	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M
Sampling Date	**10/9/2010**	**11/13/2010**	**12/11/2010**	**1/8/2011**	**2/12/2011**	**3/19/2011**	**4/16/2011**
Reservoir Storage Content, acre feet	23,640	22,510	21,960	27,740	28,060	30,740	32,120
Reservoir Storage Content, percent full	47.9%	45.6%	44.5%	56.2%	56.8%	62.3%	65.1%
Water Surface Elevation, feet above mean sea level	1,441.21	1,439.61	1,438.82	1,446.68	1,447.08	1,450.39	1,452.03
Water Surface Elevation, feet above bottom of lowest outlet	88.71	87.11	86.32	94.18	94.58	97.89	99.53
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter							
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.18	0.13	0.33	0.18	ND	ND	ND
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	260	260	270	220	230	190	190
Carbonate as CO3, milligrams per liter	ND	ND	ND	ND	ND	14	12
Chloride, milligrams per liter	150	160	160	130	120	120	110
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	ND	ND	ND
Inorganic Nitrogen, milligrams per liter	ND	ND	0.3	0.4	ND	ND	ND
Kjeldahl Nitrogen, milligrams per liter							
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	0.23	ND	ND	ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	ND	ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	ND	0.088	ND	ND	ND
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	160	150	160	130	120	130	110
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	210	220	220	180	190	180	180
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	6	10	12	8	10	8	6

Notes:
Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD

Parameter	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M
Sampling Date	**5/14/2011**	**6/18/2011**	**7/23/2011**	**8/20/2011**	**9/17/2011**	**10/15/2011**	**11/5/2011**
Reservoir Storage Content, acre feet	31,990	31,550	30,730	30,120	29,590	29,140	28,880
Reservoir Storage Content, percent full	64.8%	63.9%	62.2%	61.0%	59.9%	59.0%	58.5%
Water Surface Elevation, feet above mean sea level	1,451.88	1,451.36	1,450.38	1,449.64	1,448.99	1,448.44	1,448.11
Water Surface Elevation, feet above bottom of lowest outlet	99.38	98.86	97.88	97.14	96.49	95.94	95.61
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter			23.07				
pH, standard units			9.11				
Total Dissolved Solids, milligrams per liter		520		550	570	600	600
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius			984				
Temperature, water, degrees Celsius			21.7				
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	ND	ND		ND	ND	ND	0.14
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	170	160		200	220	230	240
Carbonate as CO3, milligrams per liter	22	30		13	8.4	4.8	ND
Chloride, milligrams per liter	100	110		120	120	120	130
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND		ND	ND	ND	ND
Inorganic Nitrogen, milligrams per liter	ND	ND		ND	ND	ND	ND
Kjeldahl Nitrogen, milligrams per liter							
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND		ND	ND	ND	ND
Nitrite Nitrogen, milligrams per liter	ND	ND		ND	ND	ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND		ND	ND	ND	ND
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	110	110		110	120	120	110
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	180	180		190	190	200	190
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	16	18		ND	6	7	8

Notes:
Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD

Parameter	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M
Sampling Date	**12/3/2011**	**1/28/2012**	**2/25/2012**	**3/10/2012**	**4/28/2012**	**5/12/2012**	**6/16/2012**
Reservoir Storage Content, acre feet	28,790	28,740	28,800	28,870	29,360	29,220	28,570
Reservoir Storage Content, percent full	58.3%	58.2%	58.3%	58.5%	59.5%	59.2%	57.9%
Water Surface Elevation, feet above mean sea level	1,448.00	1,447.94	1,448.01	1,448.10	1,448.71	1,448.53	1,447.72
Water Surface Elevation, feet above bottom of lowest outlet	95.50	95.44	95.51	95.60	96.21	96.03	95.22
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	640	500	490	630	600	590	600
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.2	ND	ND	ND	< 0.10	< 0.10	< 0.10
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	240	260	220	250	240	240	240
Carbonate as CO3, milligrams per liter	ND	ND	18	3.6	11	9.6	7.7
Chloride, milligrams per liter	130	120	130	120	130	130	130
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	0.2	ND	ND	ND	< 0.20	< 0.20	< 0.20
Kjeldahl Nitrogen, milligrams per liter		2.1			1.5	1.4	1.2
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.20	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.10	< 0.10	< 0.10
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	ND	ND	< 0.050	< 0.050	< 0.050
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	120	110	120	120	130	120	120
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	200	210	210	210	210	220	210
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	11	25	14	9	8	8	< 5

Notes:
Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD

Parameter	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M
Sampling Date	**7/14/2012**	**8/11/2012**	**9/15/2012**	**10/20/2012**	**11/17/2012**	**12/15/2012**	**1/19/2013**
Reservoir Storage Content, acre feet	28,000	27,490	26,880	26,110	25,020	24,340	23,970
Reservoir Storage Content, percent full	56.7%	55.7%	54.4%	52.9%	50.7%	49.3%	48.6%
Water Surface Elevation, feet above mean sea level	1,447.01	1,446.35	1,445.56	1,444.55	1,443.11	1,442.18	1,441.68
Water Surface Elevation, feet above bottom of lowest outlet	94.51	93.85	93.06	92.05	90.61	89.68	89.18
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	630	610	660	590	680	660	690
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.10	< 0.10	< 0.10	< 0.10	0.15	0.67	< 0.10
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	240	230	230	240	270	280	290
Carbonate as CO3, milligrams per liter	12	13	16	11	< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter	130	130	140	140	140	130	140
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.67	< 0.20
Kjeldahl Nitrogen, milligrams per liter	1.3	2.0	3.2	2.2	1.7	2.2	1.5
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.064	< 0.050
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	120	120	120	140	120	120	130
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	220	210	220	220	230	230	240
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	7	12	6	11	9	10	20

Notes:
Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD

Parameter	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M		
Sampling Date	**2/23/2013**	**3/23/2013**	**4/20/2013**	**5/4/2013**	**6/22/2013**		
Reservoir Storage Content, acre feet	23,790	23,610	23,410	23,280	22,530		
Reservoir Storage Content, percent full	48.2%	47.8%	47.4%	47.2%	45.6%		
Water Surface Elevation, feet above mean sea level	1,441.43	1,441.17	1,440.90	1,440.17	1,439.64		
Water Surface Elevation, feet above bottom of lowest outlet	88.93	88.67	88.40	87.67	87.14		
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0		
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	670	700	690	680	690		
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.10	< 0.10	< 0.10	< 0.10	0.11		
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	250	280	290	280	300		
Carbonate as CO3, milligrams per liter	3.6	9.6	< 3.0	< 3.0	11		
Chloride, milligrams per liter	140	140	150	150	150		
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0		
Inorganic Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		
Kjeldahl Nitrogen, milligrams per liter	2.1	1.5	0.77	1.1	1.6		
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	130	130	130	140	130		
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	210	240	240	230	260		
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	8	9	< 5	< 5	< 5		

Notes:
Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD

Parameter	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB
Sampling Date	**9/22/2009**	**10/21/2009**	**11/18/2009**	**5/26/2010**	**6/17/2010**	**8/14/2010**	**9/18/2010**
Reservoir Storage Content, acre feet	22,030	21,630	21,230	25,790	25,490	24,510	24,000
Reservoir Storage Content, percent full	44.6%	43.8%	43.0%	52.2%	51.6%	49.6%	48.6%
Water Surface Elevation, feet above mean sea level	1,438.92	1,438.34	1,437.76	1,444.13	1,443.74	1,442.42	1,441.71
Water Surface Elevation, feet above bottom of lowest outlet	86.42	85.84	85.26	91.63	91.24	89.92	89.21
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter			12.4	14.13	77.2	6.1	
pH, standard units		7.47	8.5	7.8	7.71	7.64	
Total Dissolved Solids, milligrams per liter							
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius		1212	1053	1250	1253	1243	1226
Temperature, water, degrees Celsius		15.46	15.6	12.2	12.46	13.5	16.64
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	4.10	5.50	0.12	1.90		2.40	1.80
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	370	360	300	300		320	420
Carbonate as CO3, milligrams per liter	ND	ND	ND	ND		ND	ND
Chloride, milligrams per liter	160		180	150		150	160
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND		ND	ND
Inorganic Nitrogen, milligrams per liter	4.10	5.50	ND	1.90		2.40	1.80
Kjeldahl Nitrogen, milligrams per liter							
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND		ND	ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND		ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	0.78	1.10	0.053	0.470		0.530	1.400
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	110		190	140		120	69
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	300	300	250	250		260	340
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	ND	ND	6	5		ND	ND

Notes:
Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD

Parameter	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB
Sampling Date	**10/9/2010**	**11/13/2010**	**12/11/2010**	**1/8/2011**	**2/12/2011**	**3/19/2011**	**4/16/2011**
Reservoir Storage Content, acre feet	23,640	22,510	21,960	27,740	28,060	30,740	32,120
Reservoir Storage Content, percent full	47.9%	45.6%	44.5%	56.2%	56.8%	62.3%	65.1%
Water Surface Elevation, feet above mean sea level	1,441.21	1,439.61	1,438.82	1,446.68	1,447.08	1,450.39	1,452.03
Water Surface Elevation, feet above bottom of lowest outlet	88.71	87.11	86.32	94.18	94.58	97.89	99.53
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter							
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	7.80	9.10	0.31	0.22	ND	0.13	0.45
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	390	430	270	220	230	230	230
Carbonate as CO3, milligrams per liter	ND	ND	ND	ND	ND	ND	ND
Chloride, milligrams per liter	150	150	160	130	120	130	120
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	ND	ND	ND
Inorganic Nitrogen, milligrams per liter	7.80	9.10	0.30	0.6	ND	0.5	0.50
Kjeldahl Nitrogen, milligrams per liter							
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	0.34	ND	0.34	ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	ND	ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	1.000	0.660	ND	0.09	ND	0.12	0.170
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	60	45	160	130	120	130	120
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	320	360	220	180	190	180	180
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	6	ND	14	8	8	ND	ND

Notes:
Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD

Parameter	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB
Sampling Date	**5/14/2011**	**6/18/2011**	**7/23/2011**	**8/20/2011**	**9/17/2011**	**10/15/2011**	**11/5/2011**
Reservoir Storage Content, acre feet	31,990	31,550	30,730	30,120	29,590	29,140	28,880
Reservoir Storage Content, percent full	64.8%	63.9%	62.2%	61.0%	59.9%	59.0%	58.5%
Water Surface Elevation, feet above mean sea level	1,451.88	1,451.36	1,450.38	1,449.64	1,448.99	1,448.44	1,448.11
Water Surface Elevation, feet above bottom of lowest outlet	99.38	98.86	97.88	97.14	96.49	95.94	95.61
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter			0				
pH, standard units			7.56				
Total Dissolved Solids, milligrams per liter		530		560	610	610	590
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius			1007				
Temperature, water, degrees Celsius			12.2				
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.81	1.4		3.6	5	4.9	0.13
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	240	240		300	330	290	230
Carbonate as CO3, milligrams per liter	ND	ND		ND	ND	ND	ND
Chloride, milligrams per liter	110	130		120	120	120	130
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND		ND	ND	ND	ND
Inorganic Nitrogen, milligrams per liter	0.8	1.4		3.6	5	4.9	ND
Kjeldahl Nitrogen, milligrams per liter							
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND		ND	ND	ND	ND
Nitrite Nitrogen, milligrams per liter	ND	ND		ND	ND	ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	0.26	0.49		0.36	0.65	0.2	0.45
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	110	100		74	60	68	110
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	190	200		240	270	240	190
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	6	ND		ND	ND	ND	6

Notes:
Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD

Parameter	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB
Sampling Date	**12/3/2011**	**1/28/2012**	**2/25/2012**	**3/10/2012**	**4/28/2012**	**5/12/2012**	**6/16/2012**
Reservoir Storage Content, acre feet	28,790	28,740	28,800	28,870	29,360	29,220	28,570
Reservoir Storage Content, percent full	58.3%	58.2%	58.3%	58.5%	59.5%	59.2%	57.9%
Water Surface Elevation, feet above mean sea level	1,448.00	1,447.94	1,448.01	1,448.10	1,448.71	1,448.53	1,447.72
Water Surface Elevation, feet above bottom of lowest outlet	95.50	95.44	95.51	95.60	96.21	96.03	95.22
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	670	520	510	630	590	610	600
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.24	ND	0.4	0.61	1.7	0.97	2.7
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	240	260	260	260	280	260	280
Carbonate as CO3, milligrams per liter	ND	ND	ND	ND	< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter	130	120	130	120	130	130	120
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	0.2	ND	0.4	0.6	1.7	0.97	2.7
Kjeldahl Nitrogen, milligrams per liter		1.8			3.1	2.2	4.2
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.20	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.10	< 0.10	< 0.10
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	ND	0.13	0.31	0.17	0.45
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	120	110	120	110	110	100	87
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	200	210	210	210	230	220	230
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	12	23	12	11	6	8	< 5

Notes:
Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD

Parameter	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB
Sampling Date	**7/14/2012**	**8/11/2012**	**9/15/2012**	**10/20/2012**	**11/17/2012**	**12/15/2012**	**1/19/2013**
Reservoir Storage Content, acre feet	28,000	27,490	26,880	26,110	25,020	24,340	23,970
Reservoir Storage Content, percent full	56.7%	55.7%	54.4%	52.9%	50.7%	49.3%	48.6%
Water Surface Elevation, feet above mean sea level	1,447.01	1,446.35	1,445.56	1,444.55	1,443.11	1,442.18	1,441.68
Water Surface Elevation, feet above bottom of lowest outlet	94.51	93.85	93.06	92.05	90.61	89.68	89.18
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	620	600	610	610	700	610	700
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	2.5	4.0	4.0	8.6	0.20	14	0.15
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	280	300	340	390	270	400	290
Carbonate as CO3, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter	120	120	120	120	130	120	140
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	2.5	4.0	4.1	8.6	0.20	14	0.31
Kjeldahl Nitrogen, milligrams per liter	3.4	6.2	6.0	10	1.9	12	2.1
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16
Ortho Phosphate Phosphorus, milligrams per liter	0.40	< 0.14	0.49	1.1	< 0.050	1.5	< 0.050
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	87	72	63	42	120	24	130
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	230	250	280	320	220	330	240
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	< 5	7	< 5	6	8	20	22

Notes:
Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD

Parameter	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB	3 Vail 1MAB		
Sampling Date	**2/23/2013**	**3/23/2013**	**4/20/2013**	**5/4/2013**	**6/22/2013**		
Reservoir Storage Content, acre feet	23,790	23,610	23,410	23,280	22,530		
Reservoir Storage Content, percent full	48.2%	47.8%	47.4%	47.2%	45.6%		
Water Surface Elevation, feet above mean sea level	1,441.43	1,441.17	1,440.90	1,440.17	1,439.64		
Water Surface Elevation, feet above bottom of lowest outlet	88.93	88.67	88.40	87.67	87.14		
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0		
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	680	680	650	700	690		
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.20	0.91	1.6	2.1	3.9		
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	290	300	290	290	310		
Carbonate as CO3, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0		
Chloride, milligrams per liter	140	130	140	150	140		
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0		
Inorganic Nitrogen, milligrams per liter	0.20	0.91	1.6	2.1	3.9		
Kjeldahl Nitrogen, milligrams per liter	1.4	2.0	2.9	3.2	4.7		
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	0.18	0.30	0.36	0.48		
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	130	120	130	120	96		
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	240	240	240	240	260		
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	6	6	7	6	< 5		

Notes:
Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1M			
	Sampling date		**8/20/2011**	**9/15/2012**		
	Reservoir Storage Content, acre feet		30,120	26,880		
	Reservoir Storage Content, percent full		61.0%	54.4%		
	Water Surface Elevation, feet above mean sea level		1,449.64	1,445.37		
	Water Surface Elevation, feet above bottom of lowest outlet		97.14	92.87		
3	Sampling depth, feet below water surface		3.0	3.0		
10	Temperature, water, degrees Celsius		22.5	27.4		
28	Agency analyzing sample, code		80020	80020		
59	Flow rate, instantaneous, gallons per minute					
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		948	1080		
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M		
300	Dissolved oxygen, water, unfiltered, milligrams per liter			8.7		
400	pH, water, unfiltered, field, standard units		8.8	8.9		
403	pH, water, unfiltered, laboratory, standard units		8.8	9.0		
405	Carbon dioxide, water, unfiltered, milligrams per liter		0.5	0.5		
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		203	246		
602	Total nitrogen, water, filtered, milligrams per liter		< 0.88	< 0.80		
607	Organic nitrogen, water, filtered, milligrams per liter		0.79	0.75		
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.073	0.012		
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.001	< 0.001		
618	Nitrate, water, filtered, milligrams per liter as nitrogen		< 0.020	< 0.040		
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.86	0.76		
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.02	< 0.040		
660	Orthophosphate, water, filtered, milligrams per liter		0.013	< 0.012		
666	Phosphorus, water, filtered, milligrams per liter		0.02	0.02		
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.004	< 0.004		
900	Hardness, water, milligrams per liter as calcium carbonate		169	201		
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate					
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate					
915	Calcium, water, filtered, milligrams per liter		26.1	28.8		
925	Magnesium, water, filtered, milligrams per liter		25.1	31.2		
930	Sodium, water, filtered, milligrams per liter		128	165		
931	Sodium adsorption ratio, water, number		4.31	5.06		
932	Sodium fraction of cations, water, percent in equivalents of major cations		61	63		
935	Potassium, water, filtered, milligrams per liter		8.57	10.7		
940	Chloride, water, filtered, milligrams per liter	600	116	139		
945	Sulfate, water, filtered, milligrams per liter	600	115	129		
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.49	0.54		
955	Silica, water, filtered, milligrams per liter		10.9	2.4		
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	2	1.8		
1005	Barium, water, filtered, micrograms per liter	1000 (d)	41.2	35.4		
1010	Beryllium, micrograms per liter	4 (e)				
1020	Boron, water, filtered, micrograms per liter		192	227		
1025	Cadmium, micrograms per liter	5 (f)				
1030	Chromium, micrograms per liter	50 (g)				
1035	Cobalt, micrograms per liter					
1040	Copper, micrograms per liter	1000 (h)				
1046	Iron, water, filtered, micrograms per liter	300	5	< 3.2		
1049	Lead, micrograms per liter					
1056	Manganese, water, filtered, micrograms per liter	50	1.2	0.54		
1057	Thallium, micrograms per liter	2 (i)				
1060	Molybdenum, micrograms per liter					
1065	Nickel, micrograms per liter	100 (j)				
1075	Silver, micrograms per liter	100 (k)				
1080	Strontium, water, filtered, micrograms per liter		254	315		
1085	Vanadium, micrograms per liter					
1090	Zinc, micrograms per liter	5000 (l)				

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1M			
	Sampling date		8/20/2011	9/15/2012		
1095	Antimony, micrograms per liter	6 (m)				
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	3.7	7.2		
1130	Lithium, water, filtered, micrograms per liter		10	7.44		
1145	Selenium, micrograms per liter	50 (o)				
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter					
22703	Uranium, natural, micrograms per liter					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate		179	223		
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter					
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter					
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5				
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter					
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter					
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter					
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter					
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150				
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1				
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter					
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70				
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter					
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300				
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter					
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter					
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter					
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5				
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5				
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150				
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5				
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200				
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5				
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1				
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600				
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5				
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10				
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter					
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1M			
	Sampling date		8/20/2011	9/15/2012		
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter					
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter					
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		180	223		
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5				
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5				
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter					
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter					
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern					
49934	C-14, counting error, water, filtered, percent modern					
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter					
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter					
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter					
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter					
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6				
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1M			
	Sampling date		8/20/2011	9/15/2012		
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					
62005	Cotinine, water, filtered, recoverable, micrograms per liter					
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Triclosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6				
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	587	658		
70301	Residue, water, filtered, sum of constituents, milligrams per liter		539	641		
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4		0.094	0.016		
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	< 0.089	< 0.177		
71856	Nitrite, water, filtered, milligrams per liter		< 0.003	< 0.003		
71865	Iodide, water, filtered, milligrams per liter		0.021	0.017		
71870	Bromide, water, filtered, milligrams per liter		0.46	0.468		
72019	Depth to water level, feet below land surface					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1M			
	Sampling date		8/20/2011	9/15/2012		
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
77041	Carbon disulfide, water, unfiltered, micrograms per liter					
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					
82081	C-13/C-12 ratio, water, unfiltered, per mil					
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-16.2	-6.7		
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-0.61	1.25		
82303	Rn-222, water, unfiltered, picocuries per liter					
82346	Ethion, water, filtered, recoverable, micrograms per liter					
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1M			
	Sampling date		8/20/2011	9/15/2012		
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter					
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		925	1080		
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter					
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes: Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:
(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1MAB			
	Sampling date		**8/20/2011**	**9/15/2012**		
	Reservoir Storage Content, acre feet		30,120	26,880		
	Reservoir Storage Content, percent full		61.0%	54.4%		
	Water Surface Elevation, feet above mean sea level		1,449.64	1,445.37		
	Water Surface Elevation, feet above bottom of lowest outlet		97.14	92.87		
3	Sampling depth, feet below water surface		71.0	71.0		
10	Temperature, water, degrees Celsius		15.5	23.8		
28	Agency analyzing sample, code		80020	80020		
59	Flow rate, instantaneous, gallons per minute					
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		1000	1080		
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00002	0.00003		
300	Dissolved oxygen, water, unfiltered, milligrams per liter			0.4		
400	pH, water, unfiltered, field, standard units		7.7	7.6		
403	pH, water, unfiltered, laboratory, standard units		7.8	7.6		
405	Carbon dioxide, water, unfiltered, milligrams per liter		9.2	15		
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		284	359		
602	Total nitrogen, water, filtered, milligrams per liter		< 3.7	< 6.0		
607	Organic nitrogen, water, filtered, milligrams per liter		0.81	0.81		
608	Ammonia, water, filtered, milligrams per liter as nitrogen		2.88	5.11		
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.003	0.002		
618	Nitrate, water, filtered, milligrams per liter as nitrogen		< 0.020	< 0.038		
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		3.7	5.9		
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.02	< 0.040		
660	Orthophosphate, water, filtered, milligrams per liter		1.5	2.41		
666	Phosphorus, water, filtered, milligrams per liter		0.49	0.78		
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.488	0.786		
900	Hardness, water, milligrams per liter as calcium carbonate		186	224		
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate					
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate					
915	Calcium, water, filtered, milligrams per liter		31.5	39.7		
925	Magnesium, water, filtered, milligrams per liter		26	30.1		
930	Sodium, water, filtered, milligrams per liter		132	154		
931	Sodium adsorption ratio, water, number		4.22	4.47		
932	Sodium fraction of cations, water, percent in equivalents of major cations		59	59		
935	Potassium, water, filtered, milligrams per liter		9.46	10.2		
940	Chloride, water, filtered, milligrams per liter	600	117	124		
945	Sulfate, water, filtered, milligrams per liter	600	105	95.5		
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.48	0.53		
955	Silica, water, filtered, milligrams per liter		9.6	5.84		
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	1.3	1.5		
1005	Barium, water, filtered, micrograms per liter	1000 (d)	58.6	96.6		
1010	Beryllium, micrograms per liter	4 (e)				
1020	Boron, water, filtered, micrograms per liter		188	220		
1025	Cadmium, micrograms per liter	5 (f)				
1030	Chromium, micrograms per liter	50 (g)				
1035	Cobalt, micrograms per liter					
1040	Copper, micrograms per liter	1000 (h)				
1046	Iron, water, filtered, micrograms per liter	300	28	15.6		
1049	Lead, micrograms per liter					
1056	Manganese, water, filtered, micrograms per liter	50	299	423		
1057	Thallium, micrograms per liter	2 (i)				
1060	Molybdenum, micrograms per liter					
1065	Nickel, micrograms per liter	100 (j)				
1075	Silver, micrograms per liter	100 (k)				
1080	Strontium, water, filtered, micrograms per liter		295	340		
1085	Vanadium, micrograms per liter					
1090	Zinc, micrograms per liter	5000 (l)				

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1MAB			
	Sampling date		8/20/2011	9/15/2012		
1095	Antimony, micrograms per liter	6 (m)				
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 1.7	< 2.2		
1130	Lithium, water, filtered, micrograms per liter		9	7.2		
1145	Selenium, micrograms per liter	50 (o)				
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter					
22703	Uranium, natural, micrograms per liter					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate		210	276		
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter					
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter					
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5				
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter					
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter					
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter					
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter					
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150				
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1				
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter					
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70				
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter					
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300				
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter					
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter					
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter					
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5				
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5				
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150				
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5				
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200				
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5				
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1				
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600				
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5				
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10				
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter					
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1MAB			
	Sampling date		8/20/2011	9/15/2012		
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter					
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter					
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		234	296		
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5				
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5				
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter					
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter					
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern					
49934	C-14, counting error, water, filtered, percent modern					
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter					
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter					
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter					
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter					
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6				
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1MAB			
	Sampling date		8/20/2011	9/15/2012		
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					
62005	Cotinine, water, filtered, recoverable, micrograms per liter					
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Triclosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6				
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	600	629		
70301	Residue, water, filtered, sum of constituents, milligrams per liter		578	647		
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4		3.71	6.58		
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	< 0.089	< 0.17		
71856	Nitrite, water, filtered, milligrams per liter		< 0.010	0.005		
71865	Iodide, water, filtered, milligrams per liter		0.025	0.03		
71870	Bromide, water, filtered, milligrams per liter		0.46	0.45		
72019	Depth to water level, feet below land surface					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1MAB			
	Sampling date		8/20/2011	9/15/2012		
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
77041	Carbon disulfide, water, unfiltered, micrograms per liter					
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					
82081	C-13/C-12 ratio, water, unfiltered, per mil					
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-19.5	-14.4		
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-1.17	-0.11		
82303	Rn-222, water, unfiltered, picocuries per liter					
82346	Ethion, water, filtered, recoverable, micrograms per liter					
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS

Code	Parameter	MCL	3 Vail 1MAB			
	Sampling date		8/20/2011	9/15/2012		
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter					
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		974	1070		
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter					
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes: Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:
(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

ANNUAL REPORT

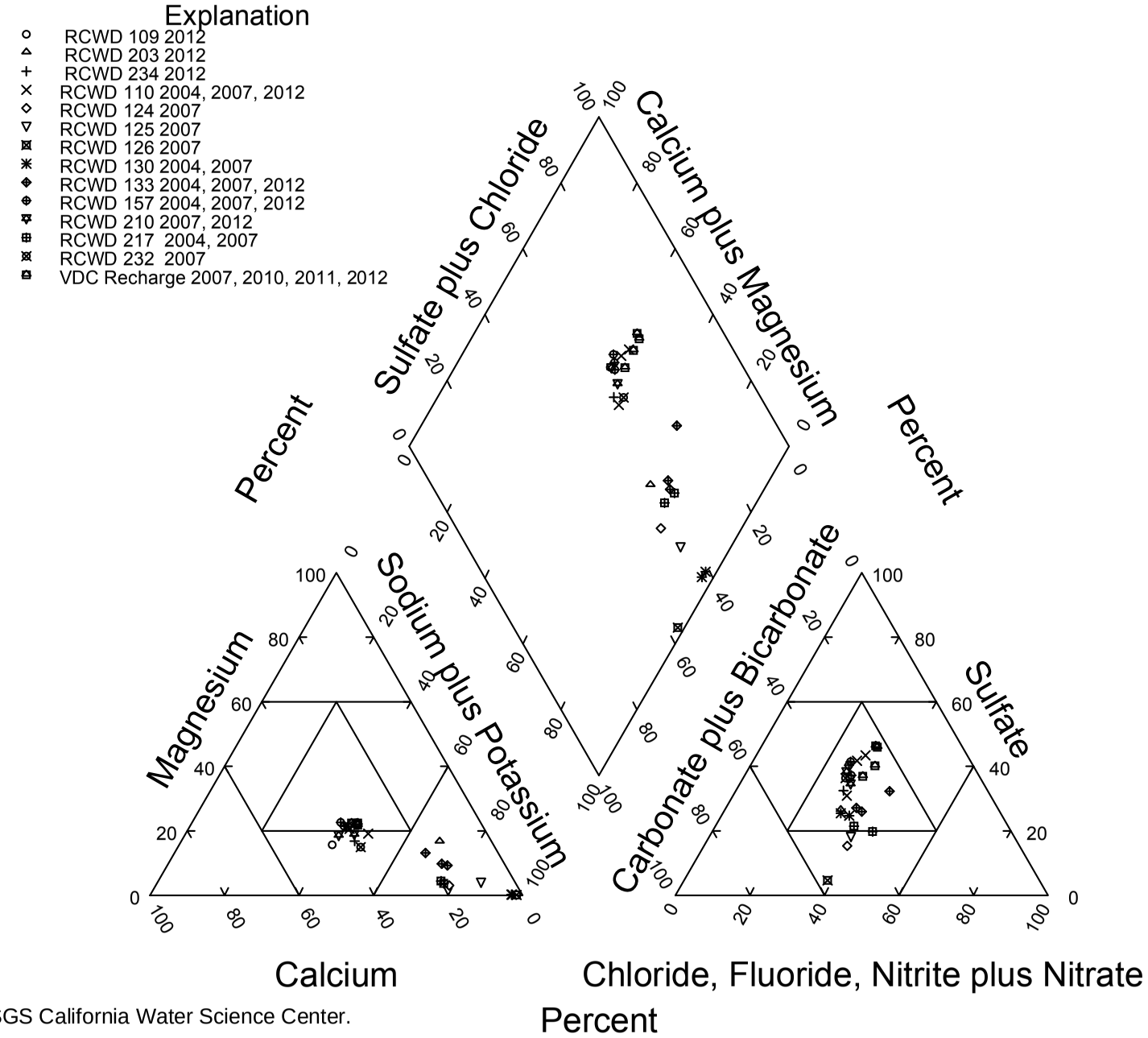
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX E

WATER QUALITY DATA FOR SELECTED RCWD PRODUCTION WELLS

Tri-Linear Diagram
RCWD Production Wells



Source: USGS California Water Science Center.

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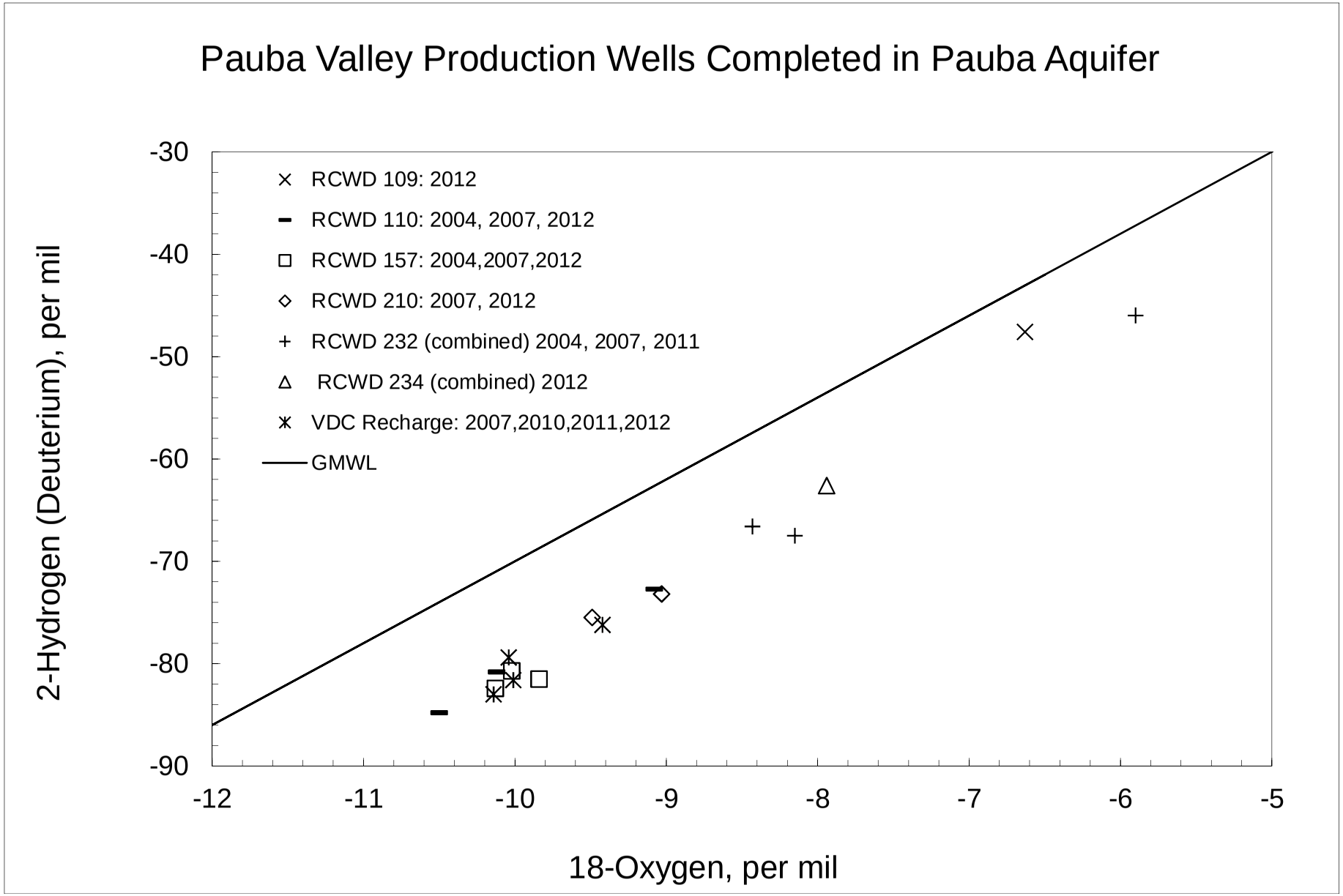
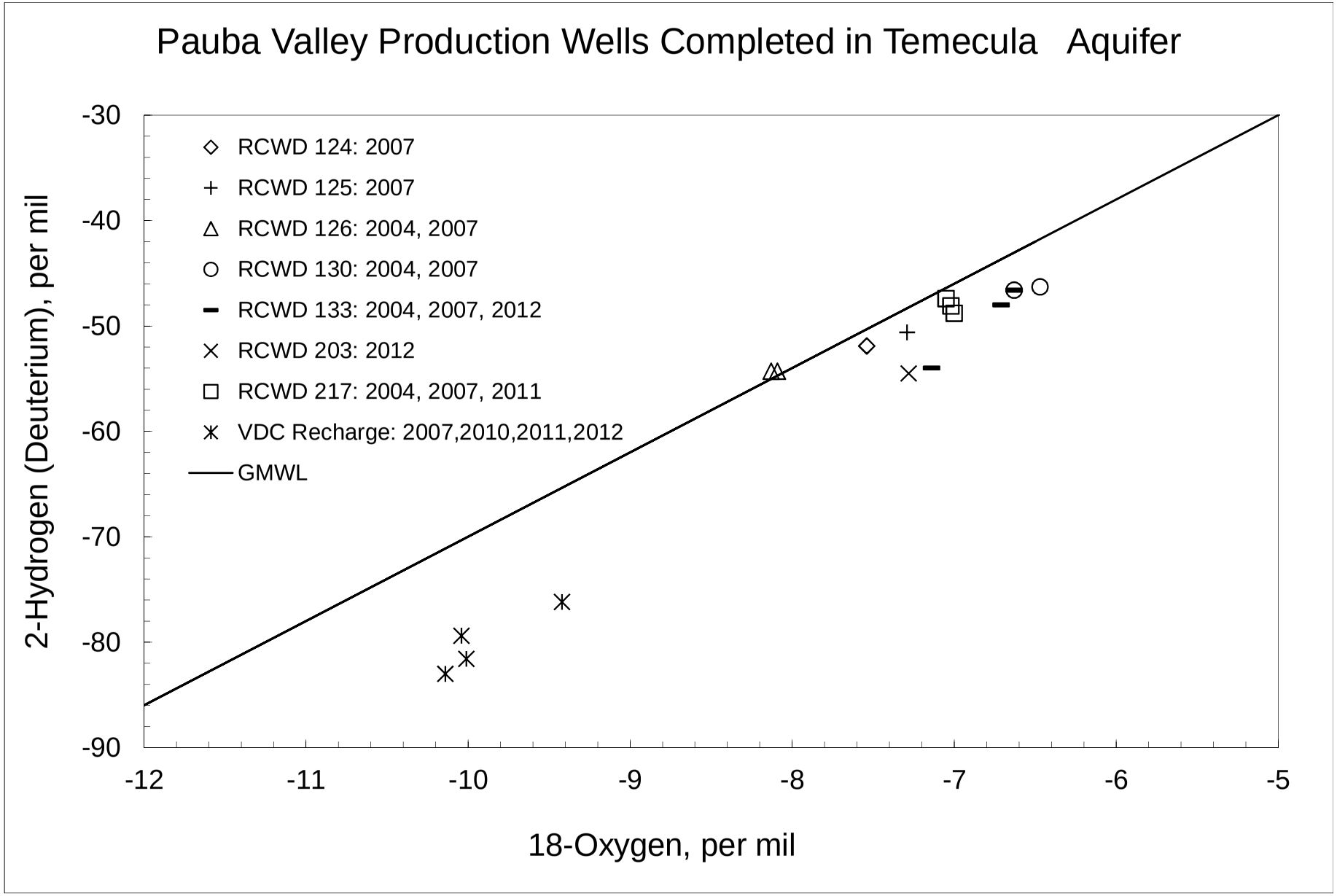
Stable Isotope Diagram



Source: USGS California Water Science Center.

Stable Isotope Diagram



Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110	No. 126	No. 130	No. 133	
	Sampling date		6/15/2004	5/27/2004	6/14/2004	5/20/2004	
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		20.2		22	21	
28	Agency analyzing sample, code		80020	80020	80020	80020	
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		845	510	807	818	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00003		M	0.00001	
300	Dissolved oxygen, water, unfiltered, milligrams per liter		4.5		2.3	2.1	
400	pH, water, unfiltered, field, standard units		7.5		8.9	7.9	
403	pH, water, unfiltered, laboratory, standard units						
405	Carbon dioxide, water, unfiltered, milligrams per liter						
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.03		< 0.03	< 0.02	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.04		< 0.04	< 0.04	
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.008		< 0.008	< 0.008	
618	Nitrate, water, filtered, milligrams per liter as nitrogen		0.502		1.28	0.519	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		0.5		1.28	0.52	
660	Orthophosphate, water, filtered, milligrams per liter		0.224		0.04	0.031	
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.073		0.013	0.01	
900	Hardness, water, milligrams per liter as calcium carbonate		243		11.3	102	
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		130				
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter		61.9		4.17	25.6	
925	Magnesium, water, filtered, milligrams per liter		21.4		0.195	9.08	
930	Sodium, water, filtered, milligrams per liter		81.7		172	127	
931	Sodium adsorption ratio, water, number						
932	Sodium fraction of cations, water, percent in equivalents of major cations						
935	Potassium, water, filtered, milligrams per liter		5.32		0.9	2.33	
940	Chloride, water, filtered, milligrams per liter	600	80.5		84.8	98.8	
945	Sulfate, water, filtered, milligrams per liter	600	165		87.1	96.6	
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.5		0.59	1	
955	Silica, water, filtered, milligrams per liter		20.1		14.3	22.2	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	0.9		0.9	3.1	
1005	Barium, water, filtered, micrograms per liter	1000 (d)	33.9		2.95	52.6	
1010	Beryllium, micrograms per liter	4 (e)	< 0.06		< 0.06	< 0.06	
1020	Boron, water, filtered, micrograms per liter		105		< 8	726	
1025	Cadmium, micrograms per liter	5 (f)	E 0.028		< 0.04	0.051	
1030	Chromium, micrograms per liter	50 (g)	< 0.8		1	E 0.6	
1035	Cobalt, micrograms per liter		0.151		0.027	0.066	
1040	Copper, micrograms per liter	1000 (h)	2.4		V 0.4	V 1.1	
1046	Iron, water, filtered, micrograms per liter	300	< 6.4		E 3.7	< 6.4	
1049	Lead, micrograms per liter		0.118		< 0.8	0.146	
1056	Manganese, water, filtered, micrograms per liter	50	< 0.2		0.65	E 0.19	
1057	Thallium, micrograms per liter	2 (i)	< 0.04		< 0.04	< 0.04	
1060	Molybdenum, micrograms per liter		7.96		1.65	4.58	
1065	Nickel, micrograms per liter	100 (j)	0.4		0.14	0.53	
1075	Silver, micrograms per liter	100 (k)	< 0.2		< 0.2	< 0.2	
1080	Strontium, water, filtered, micrograms per liter		343		38.8	396	
1085	Vanadium, micrograms per liter		5.8		V 0.3	43.4	
1090	Zinc, micrograms per liter	5000 (l)	2.2		1.1	0.7	
1095	Antimony, micrograms per liter	6 (m)	< 0.2		< 0.2	< 0.2	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110	No. 126	No. 130	No. 133	
	Sampling date		**6/15/2004**	**5/27/2004**	**6/14/2004**	**5/20/2004**	
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 1.6		2.9	3.8	
1130	Lithium, water, filtered, micrograms per liter		3.52		0.62	4.09	
1145	Selenium, micrograms per liter	50 (o)	1.1		E 0.3	1	
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter		< 0.01	< 0.01	< 0.01	< 0.01	
4025	Hexazinone, water, filtered, recoverable, micrograms per liter		< 0.013	< 0.013	< 0.013	< 0.013	
4029	Bromacil, water, filtered, recoverable, micrograms per liter		< 0.03		< 0.03	< 0.03	
4035	Simazine, water, filtered, recoverable, micrograms per liter		0.007	< 0.005	< 0.005	0.006	
4036	Prometryn, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
4037	Prometon, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter		E 0.006	< 0.006	< 0.006	< 0.006	
4095	Fonofos, water, filtered, recoverable, micrograms per liter		< 0.003	< 0.003	< 0.003	< 0.003	
7000	Tritium, water, unfiltered, picocuries per liter		21.8		2.2	3.5	
22703	Uranium, natural, micrograms per liter		1.09		0.245	3.56	
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate						
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05	
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		0.13	< 0.028	< 0.028	E 0.088	
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.06	< 0.06	
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.13	< 0.13	< 0.13	< 0.13	
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.48	< 0.02	E 0.02	0.11	
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.05	< 0.05	< 0.05	E 0.01	
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.021	< 0.021	< 0.021	< 0.021	
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 1.2	< 1.2	< 1.2	< 1.2	
34221	Anthracene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)	< 0.05		< 0.05	< 0.05	
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.028	< 0.028	< 0.028	< 0.028	
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.03	< 0.03	< 0.03	< 0.03	
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	
34409	Isophorone, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.3	< 0.3	< 0.3	< 0.3	
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.06	< 0.06	
34443	Naphthalene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34466	Phenol, water, filtered, recoverable, micrograms per liter		V 0.28		V 0.27	< 0.05	
34470	Pyrene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.06	< 0.06	
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter		E 0.03		< 0.05	< 0.05	
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.16	< 0.16	< 0.16	< 0.16	
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.035	< 0.035	< 0.035	< 0.035	
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.024	< 0.024	< 0.024	< 0.024	
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.032	< 0.032	< 0.032	< 0.032	
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.064	< 0.064	< 0.064	< 0.064	
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.16	< 0.16	< 0.16	< 0.16	
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.048	< 0.048	< 0.048	< 0.048	
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.029	< 0.029	< 0.029	< 0.029	
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.032	< 0.032	< 0.032	< 0.032	
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12	< 0.12	< 0.12	< 0.12	
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110	No. 126	No. 130	No. 133	
	Sampling date		**6/15/2004**	**5/27/2004**	**6/14/2004**	**5/20/2004**	
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.034	< 0.034	< 0.034	< 0.034	
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.18	< 0.18	< 0.18	< 0.18	
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.52	< 0.52	< 0.52	< 0.52	
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.09	< 0.09	< 0.09	< 0.09	
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.05	< 0.05	< 0.05	< 0.05	
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter		< 0.01	< 0.01	< 0.01	< 0.01	
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.06	< 0.06	
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.038	< 0.038	< 0.038	< 0.038	
39381	Dieldrin, water, filtered, recoverable, micrograms per liter		< 0.009	< 0.009	< 0.009	< 0.009	
39415	Metolachlor, water, filtered, recoverable, micrograms per liter		< 0.013	< 0.013	< 0.013	< 0.013	
39532	Malathion, water, filtered, recoverable, micrograms per liter		< 0.027	< 0.027	< 0.027	< 0.027	
39572	Diazinon, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
39632	Atrazine, water, filtered, recoverable, micrograms per liter		< 0.007	< 0.007	< 0.007	< 0.007	
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	
46342	Alachlor, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
49260	Acetochlor, water, filtered, recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006	
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0882	< 0.0882	< 0.0882	< 0.0882	
49933	C-14, water, filtered, percent modern		92.4		75.42	69.67	
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 2	< 2	< 2	< 2	
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05	
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	
50305	Caffeine, water, filtered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1	
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter		< 0.02		< 0.02	< 0.02	
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	2.2		0.49	< 0.25	
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008	
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter		< 0.009	< 0.009	< 0.009	< 0.009	
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter		< 0.029	< 0.029	< 0.029	< 0.029	
61593	Iprodione, water, filtered, recoverable, micrograms per liter		< 1.42	< 1.42	< 1.42	< 1.42	
61594	Isofenphos, water, filtered, recoverable, micrograms per liter		< 0.003	< 0.003	< 0.003	< 0.003	
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
61598	Methidathion, water, filtered, recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006	
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008	
61601	Phosmet, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008	
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005	
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter		< 0.0045	< 0.0045	< 0.0045	< 0.0045	
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter		< 0.0056	< 0.0056	< 0.0056	< 0.0056	
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.016	< 0.016	< 0.016	< 0.016	
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter		< 0.034	< 0.034	< 0.034	< 0.034	
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008	
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03	
61652	Malaoxon, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008	
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110	No. 126	No. 130	No. 133	
	Sampling date		**6/15/2004**	**5/27/2004**	**6/14/2004**	**5/20/2004**	
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.097	< 0.097	< 0.097	< 0.097	
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter				< 0.053	< 0.053	
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter		< 0.068	< 0.068	< 0.068	< 0.068	
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
62005	Cotinine, water, filtered, recoverable, micrograms per liter		< 0.019		< 0.019	< 0.019	
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter		< 2		< 2	< 2	
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter		< 5		< 5	< 5	
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter		< 2		< 2	< 2	
62064	Acetophenone, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62067	Benzophenone, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter		< 2		< 2	< 2	
62070	Camphor, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62071	Carbazole, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62072	Cholesterol, water, filtered, recoverable, micrograms per liter		< 2		< 2	< 2	
62073	D-Limonene, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62076	Indole, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62077	Isoborneol, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62080	Menthol, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62082	DEET, water, filtered, recoverable, micrograms per liter		E 0.06		< 0.5	< 0.5	
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter		< 5		< 5	< 5	
62084	p-Cresol, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter		< 5		< 5	< 5	
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter		< 2		< 2	< 2	
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62090	Triclosan, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1	
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
62166	Fipronil, water, filtered, recoverable, micrograms per liter		< 0.016	< 0.016	< 0.016	< 0.016	
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter		< 0.013	< 0.013	< 0.013	< 0.013	
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter		< 0.024	< 0.024	< 0.024	< 0.024	
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter		< 0.029	< 0.029	< 0.029	< 0.029	
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter		< 0.012	< 0.012	< 0.012	< 0.012	
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter		0.53		1.31	0.54	
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	532		478	494	
70301	Residue, water, filtered, sum of constituents, milligrams per liter		E 508		V 460	V 473	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110	No. 126	No. 130	No. 133	
	Sampling date		6/15/2004	5/27/2004	6/14/2004	5/20/2004	
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4		< 0.052		< 0.052	< 0.052	
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	2.22		5.68	2.3	
71856	Nitrite, water, filtered, milligrams per liter		< 0.026		< 0.026	< 0.026	
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter		0.15		0.34	0.37	
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.7	< 0.7	< 0.7	< 0.7	
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.18	< 0.18	< 0.18	< 0.18	
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.3	0.6	1	0.6	
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		28		24	23	
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038	
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.024	< 0.024	< 0.024	< 0.024	
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.7	< 0.7	< 0.7	< 0.7	
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.042	< 0.042	< 0.042	< 0.042	
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038	
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.026	< 0.026	< 0.026	< 0.026	
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05	
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.056	< 0.056	< 0.056	< 0.056	
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038	
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.042	< 0.042	< 0.042	< 0.042	
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.044	< 0.044	< 0.044	< 0.044	
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05	
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.35	< 0.35	< 0.35	< 0.35	
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0..18	< 0..18	< 0..18	< 0..18	
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03	
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.27	< 0.27	< 0.27	< 0.27	
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.036	< 0.036	< 0.036	< 0.036	
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038	
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.17	< 0.17	< 0.17	< 0.17	
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5	
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.37	< 0.37	< 0.37	< 0.37	
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6	< 6	< 6	< 6	
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.028	< 0.028	< 0.028	< 0.028	
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.76	< 0.76	< 0.76	< 0.76	
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 4	< 4	< 4	< 4	
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.35	< 0.35	< 0.35	< 0.35	
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 2.2	< 2.2	< 2.2	< 2.2	
82081	C-13/C-12 ratio, water, unfiltered, per mil		-11		-14.2	-14.1	
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-85	-54.3	-46.6	-46	
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.5	-8.13	-6.63	-6.4	
82303	Rn-222, water, unfiltered, picocuries per liter		210		420	310	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110	No. 126	No. 130	No. 133	
	Sampling date		**6/15/2004**	**5/27/2004**	**6/14/2004**	**5/20/2004**	
82346	Ethion, water, filtered, recoverable, micrograms per liter		< 0.004	< 0.004	< 0.004	< 0.004	
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.51	< 0.51	< 0.51	< 0.51	
82630	Metribuzin, water, filtered, recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006	
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006	
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.009	< 0.009	< 0.009	< 0.009	
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0061	< 0.0061	< 0.0061	< 0.0061	
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.011	< 0.011	< 0.011	< 0.011	
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.015	< 0.015	< 0.015	< 0.015	
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.016	< 0.016	< 0.016	< 0.016	
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.01	< 0.01	< 0.01	< 0.01	
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.017	< 0.017	< 0.017	< 0.017	
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.004	< 0.004	< 0.004	< 0.004	
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.041	< 0.041	< 0.041	< 0.041	
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.003	< 0.003	< 0.003	< 0.003	
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.022	< 0.022	< 0.022	< 0.022	
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05	
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006	
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004

Code	Parameter	MCL	No. 157	No. 157	No. 217	No. 232	
	Sampling date		5/27/2004	7/26/2004	5/19/2004	5/24/2004	
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		16.5	19	24.1	19.5	
28	Agency analyzing sample, code		80020	80020	80020	80020	
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		783	858	704	1020	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter			0.00003	0.00001		
300	Dissolved oxygen, water, unfiltered, milligrams per liter			3.5	4.6		
400	pH, water, unfiltered, field, standard units			7.5	8.1		
403	pH, water, unfiltered, laboratory, standard units						
405	Carbon dioxide, water, unfiltered, milligrams per liter						
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter			< 0.06			
608	Ammonia, water, filtered, milligrams per liter as nitrogen			< 0.04	< 0.04		
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.008	0.028		
618	Nitrate, water, filtered, milligrams per liter as nitrogen			0.411	3.81		
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			0.41	3.84		
660	Orthophosphate, water, filtered, milligrams per liter			0.113	0.046		
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			0.037	0.015		
900	Hardness, water, milligrams per liter as calcium carbonate			261	76.6		
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate			120			
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter			65	25.6		
925	Magnesium, water, filtered, milligrams per liter			23.7	3		
930	Sodium, water, filtered, milligrams per liter			76.6	116		
931	Sodium adsorption ratio, water, number						
932	Sodium fraction of cations, water, percent in equivalents of major cations						
935	Potassium, water, filtered, milligrams per liter			4.29	1.77		
940	Chloride, water, filtered, milligrams per liter	600		79.9	86.8		
945	Sulfate, water, filtered, milligrams per liter	600		173	61.1		
950	Fluoride, water, filtered, milligrams per liter	2 (b)		0.27	0.82		
955	Silica, water, filtered, milligrams per liter			13.1	18.2		
1000	Arsenic, water, filtered, micrograms per liter	10 (c)		0.5	7.8		
1005	Barium, water, filtered, micrograms per liter	1000 (d)		34.9	62.8		
1010	Beryllium, micrograms per liter	4 (e)		< 0.06	< 0.06		
1020	Boron, water, filtered, micrograms per liter			159	299		
1025	Cadmium, micrograms per liter	5 (f)		E 0.022	< 0.04		
1030	Chromium, micrograms per liter	50 (g)		< 0.8	1.6		
1035	Cobalt, micrograms per liter			0.2	0.069		
1040	Copper, micrograms per liter	1000 (h)		4.9	V 0.9		
1046	Iron, water, filtered, micrograms per liter	300		< 6.4	E 6		
1049	Lead, micrograms per liter			0.936	0.111		
1056	Manganese, water, filtered, micrograms per liter	50		0.29	< 0.2		
1057	Thallium, micrograms per liter	2 (i)		< 0.04	< 0.04		
1060	Molybdenum, micrograms per liter			4.11	2.04		
1065	Nickel, micrograms per liter	100 (j)		1.33	0.55		
1075	Silver, micrograms per liter	100 (k)		< 0.2	< 0.2		
1080	Strontium, water, filtered, micrograms per liter			706	277		
1085	Vanadium, micrograms per liter			3	69		
1090	Zinc, micrograms per liter	5000 (l)		2.9	E 0.6		
1095	Antimony, micrograms per liter	6 (m)		E 0.112	< 0.2		

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004

Code	Parameter	MCL	No. 157	No. 157	No. 217	No. 232	
	Sampling date		5/27/2004	7/26/2004	5/19/2004	5/24/2004	
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)		< 1.6	4.8		
1130	Lithium, water, filtered, micrograms per liter			17.4	4.15		
1145	Selenium, micrograms per liter	50 (o)		1.3	1.8		
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter		E 0.006		< 0.01	< 0.01	
4025	Hexazinone, water, filtered, recoverable, micrograms per liter		E 0.01		< 0.013	< 0.013	
4029	Bromacil, water, filtered, recoverable, micrograms per liter			< 0.03	< 0.03		
4035	Simazine, water, filtered, recoverable, micrograms per liter		0.017		0.006	< 0.005	
4036	Prometryn, water, filtered, recoverable, micrograms per liter		0.008	< 0.005	< 0.005	< 0.005	
4037	Prometon, water, filtered, recoverable, micrograms per liter		0.007	< 0.005	< 0.005	< 0.005	
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter		E 0.005	< 0.03	< 0.006	< 0.006	
4095	Fonofos, water, filtered, recoverable, micrograms per liter		< 0.003		< 0.003	< 0.003	
7000	Tritium, water, unfiltered, picocuries per liter		20.5		1.6	10.6	
22703	Uranium, natural, micrograms per liter			2.67	2.55		
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate						
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		0.112		< 0.028	< 0.028	
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06		< 0.06	< 0.06	
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.13		< 0.13	< 0.13	
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1	
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1	
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.49		< 0.02	< 0.02	
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.05		E 0.01	< 0.05	
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.021		< 0.021	< 0.021	
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 1.2		< 1.2	< 1.2	
34221	Anthracene, water, filtered, recoverable, micrograms per liter				< 0.05		
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)			< 0.05		
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter				< 0.05		
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.028		< 0.028	< 0.028	
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.12		< 0.12	< 0.12	
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.03		< 0.03	< 0.03	
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter				< 0.05		
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14		< 0.14	< 0.14	
34409	Isophorone, water, filtered, recoverable, micrograms per liter				< 0.05		
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.3		< 0.3	< 0.3	
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.2		< 0.2	< 0.2	
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	E 0.03		< 0.06	< 0.06	
34443	Naphthalene, water, filtered, recoverable, micrograms per liter				< 0.05		
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter				< 0.05		
34466	Phenol, water, filtered, recoverable, micrograms per liter				< 0.05		
34470	Pyrene, water, filtered, recoverable, micrograms per liter				< 0.05		
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.06		E 0.011	< 0.06	
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter				< 0.05		
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.16		< 0.16	< 0.16	
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.035		< 0.035	< 0.035	
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.024		< 0.024	< 0.024	
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.032		< 0.032	< 0.032	
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.064		< 0.064	< 0.064	
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.16		< 0.16	< 0.16	
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.048		< 0.048	< 0.048	
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.029		< 0.029	< 0.029	
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.032		< 0.032	< 0.032	
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12		< 0.12	< 0.12	
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.03		< 0.03	< 0.03	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004

Code	Parameter	MCL	No. 157	No. 157	No. 217	No. 232	
	Sampling date		5/27/2004	7/26/2004	5/19/2004	5/24/2004	
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.034		< 0.034	< 0.034	
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter				< 0.05		
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.18		< 0.18	< 0.18	
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.52		< 0.52	< 0.52	
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.09		< 0.09	< 0.09	
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.05		< 0.05	< 0.05	
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter		< 0.08		< 0.08	< 0.08	
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter		< 0.01		< 0.01	< 0.01	
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter		< 0.005		< 0.005	< 0.005	
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06		< 0.06	< 0.06	
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.038		< 0.038	< 0.038	
39381	Dieldrin, water, filtered, recoverable, micrograms per liter		< 0.009		< 0.009	< 0.009	
39415	Metolachlor, water, filtered, recoverable, micrograms per liter		< 0.013		< 0.013	< 0.013	
39532	Malathion, water, filtered, recoverable, micrograms per liter		< 0.027		< 0.027	< 0.027	
39572	Diazinon, water, filtered, recoverable, micrograms per liter		< 0.005		< 0.005	< 0.005	
39632	Atrazine, water, filtered, recoverable, micrograms per liter		< 0.007	< 0.009	< 0.007	< 0.007	
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.14		< 0.14	< 0.14	
46342	Alachlor, water, filtered, recoverable, micrograms per liter		< 0.005		< 0.005	< 0.005	
49260	Acetochlor, water, filtered, recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006	
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0882		< 0.0882	< 0.0882	
49933	C-14, water, filtered, percent modern		91.45		74.09		
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 2		< 2	< 2	
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14		< 0.14	< 0.14	
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14		< 0.14	< 0.14	
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1	
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.08		< 0.08	< 0.08	
50305	Caffeine, water, filtered, recoverable, micrograms per liter			< 0.01	0.17		
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter			< 0.02	< 0.02		
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6		0.74	1.4		
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter		< 0.008		< 0.008	< 0.008	
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter		< 0.009		< 0.009	< 0.009	
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter		< 0.029		< 0.029	< 0.029	
61593	Iprodione, water, filtered, recoverable, micrograms per liter		< 1.42		< 1.42	< 1.42	
61594	Isofenphos, water, filtered, recoverable, micrograms per liter		< 0.003		< 0.003	< 0.003	
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter		< 0.005		< 0.005	< 0.005	
61598	Methidathion, water, filtered, recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006	
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter		< 0.008		< 0.008	< 0.008	
61601	Phosmet, water, filtered, recoverable, micrograms per liter		< 0.008		< 0.008	< 0.008	
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter		< 0.005		< 0.005	< 0.005	
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter		< 0.005		< 0.005	< 0.005	
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter		0.0085		< 0.0045	< 0.0045	
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter		< 0.0056		< 0.0056	< 0.0056	
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.016		< 0.016	< 0.016	
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06	
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter		< 0.034		< 0.034	< 0.034	
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter		< 0.008		< 0.008	< 0.008	
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter		< 0.03		< 0.03	< 0.03	
61652	Malaoxon, water, filtered, recoverable, micrograms per liter		< 0.008		< 0.008	< 0.008	
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter		< 0.03		< 0.03	< 0.03	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004

Code	Parameter	MCL	No. 157	No. 157	No. 217	No. 232	
	Sampling date		**5/27/2004**	**7/26/2004**	**5/19/2004**	**5/24/2004**	
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.097		< 0.097	< 0.097	
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter		< 0.068		< 0.068	< 0.068	
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter				< 1		
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter				< 1		
62005	Cotinine, water, filtered, recoverable, micrograms per liter			< 0.019	< 0.019		
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter				< 0.5		
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter				< 0.5		
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter				< 0.5		
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter				< 2		
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter				< 1		
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter				< 5		
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter				< 1		
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter				< 1		
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter				< 1		
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter				< 2		
62064	Acetophenone, water, filtered, recoverable, micrograms per liter				< 0.5		
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter				< 0.5		
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter				< 0.5		
62067	Benzophenone, water, filtered, recoverable, micrograms per liter				< 0.5		
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter				< 2		
62070	Camphor, water, filtered, recoverable, micrograms per liter				< 0.5		
62071	Carbazole, water, filtered, recoverable, micrograms per liter				< 0.5		
62072	Cholesterol, water, filtered, recoverable, micrograms per liter				< 2		
62073	D-Limonene, water, filtered, recoverable, micrograms per liter				< 0.5		
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter				< 0.5		
62076	Indole, water, filtered, recoverable, micrograms per liter				< 0.5		
62077	Isoborneol, water, filtered, recoverable, micrograms per liter				< 0.5		
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter				< 0.5		
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter				< 0.5		
62080	Menthol, water, filtered, recoverable, micrograms per liter				< 0.5		
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter				< 0.5		
62082	DEET, water, filtered, recoverable, micrograms per liter				< 0.5		
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter				< 5		
62084	p-Cresol, water, filtered, recoverable, micrograms per liter				< 1		
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter				< 5		
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter				< 2		
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter				< 0.5		
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter				< 0.5		
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter				< 0.5		
62090	Triclosan, water, filtered, recoverable, micrograms per liter				< 1		
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter				< 0.5		
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter				< 0.5		
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter				< 0.5		
62166	Fipronil, water, filtered, recoverable, micrograms per liter		< 0.016		< 0.016	< 0.016	
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter		< 0.013		< 0.013	< 0.013	
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter		< 0.024		< 0.024	< 0.024	
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter		< 0.029		< 0.029	< 0.029	
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter		< 0.012		< 0.012	< 0.012	
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter			0.47	3.67		
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500		540	423		
70301	Residue, water, filtered, sum of constituents, milligrams per liter			E 524	V 401		

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004

Code	Parameter	MCL	No. 157	No. 157	No. 217	No. 232	
	Sampling date		5/27/2004	7/26/2004	5/19/2004	5/24/2004	
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4			< 0.052	< 0.052		
71851	Nitrate, water, filtered, milligrams per liter	45 (q)		1.82	16.9		
71856	Nitrite, water, filtered, milligrams per liter			< 0.026	< 0.026		
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter			0.14	0.320		
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.7		< 0.7	< 0.7	
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.7		< 0.18	< 0.18	
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.3		1	1	
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter			22	25		
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.038		< 0.038	< 0.038	
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.024		< 0.024	< 0.024	
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.7		< 0.7	< 0.7	
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.042		< 0.042	< 0.042	
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.038		< 0.038	< 0.038	
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.026		< 0.026	< 0.026	
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06	
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06	
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06	
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.056		< 0.056	< 0.056	
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.038		< 0.038	< 0.038	
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.042		< 0.042	< 0.042	
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.044		< 0.044	< 0.044	
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04		< 0.04	< 0.04	
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12		< 0.12	< 0.12	
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12		< 0.12	< 0.12	
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06	
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06	
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08		< 0.08	< 0.08	
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.35		< 0.35	< 0.35	
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0..18		< 0..18	< 0..18	
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.03		< 0.03	< 0.03	
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.27		< 0.27	< 0.27	
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.036		< 0.036	< 0.036	
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.038		< 0.038	< 0.038	
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.17		< 0.17	< 0.17	
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5	
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.37		< 0.37	< 0.37	
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6		< 6	< 6	
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.028		< 0.028	< 0.028	
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1	
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1	
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.76		< 0.76	< 0.76	
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 4		< 4	< 4	
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.35		< 0.35	< 0.35	
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 2.2		< 2.2	< 2.2	
82081	C-13/C-12 ratio, water, unfiltered, per mil		-10.5		-16.5		
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-80.7		-48.1	-46	
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.02		-7.02	-5.9	
82303	Rn-222, water, unfiltered, picocuries per liter			270	410		

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004

Code	Parameter	MCL	No. 157	No. 157	No. 217	No. 232	
	Sampling date		**5/27/2004**	**7/26/2004**	**5/19/2004**	**5/24/2004**	
82346	Ethion, water, filtered, recoverable, micrograms per liter		< 0.004		< 0.004	< 0.004	
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.51		< 0.51	< 0.51	
82630	Metribuzin, water, filtered, recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006	
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006	
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.009		< 0.009	< 0.009	
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0061		< 0.0061	< 0.0061	
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.011		< 0.011	< 0.011	
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.015		< 0.015	< 0.015	
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.016	< 0.026	< 0.016	< 0.016	
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.01		< 0.01	< 0.01	
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.017		< 0.017	< 0.017	
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.004		< 0.004	< 0.004	
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.041		< 0.041	< 0.041	
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.003		< 0.003	< 0.003	
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.022		< 0.022	< 0.022	
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05	
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006	
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06	
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007

Code	Parameter	MCL	No. 110	No. 124	No. 125	No. 126	No. 130
	Sampling date		**9/17/2007**	**9/19/2007**	**9/27/2007**	**9/18/2007**	**9/19/2007**
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		18.5	22	23.5	26	21
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		834	585	733	531	807
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00004	M	0.00001	M	M
300	Dissolved oxygen, water, unfiltered, milligrams per liter		2.9	1.4	0.9	< 0.2	1.9
400	pH, water, unfiltered, field, standard units		7.4	8.7	8.3	9.1	8.8
403	pH, water, unfiltered, laboratory, standard units						
405	Carbon dioxide, water, unfiltered, milligrams per liter						
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter					E 0.01	< 0.07
608	Ammonia, water, filtered, milligrams per liter as nitrogen					E 0.012	< 0.02
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				0.049	E 0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen					0.23	E 0.16
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					0.28	1.16
660	Orthophosphate, water, filtered, milligrams per liter					0.083	0.041
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus					0.027	0.013
900	Hardness, water, milligrams per liter as calcium carbonate		239	57.9	47.1	4.21	72.7
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate		113				
915	Calcium, water, filtered, milligrams per liter		60.1	19.7	13.1	1.55	4.33
925	Magnesium, water, filtered, milligrams per liter		21.5	2.05	3.41	0.072	15
930	Sodium, water, filtered, milligrams per liter		77	96.9	140	108	167
931	Sodium adsorption ratio, water, number						
932	Sodium fraction of cations, water, percent in equivalents of major cations						
935	Potassium, water, filtered, milligrams per liter		4.88	1.48	1.87	0.42	0.74
940	Chloride, water, filtered, milligrams per liter	600	81	71.8	93.4	62.2	82.4
945	Sulfate, water, filtered, milligrams per liter	600	166	39.8	61.1	11.4	94
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.38	0.98	0.53	3.61	0.53
955	Silica, water, filtered, milligrams per liter		15	17.2	16.5	14.8	13.3
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	0.81	11.4	3.3	25.1	3.6
1005	Barium, water, filtered, micrograms per liter	1000 (d)	38.2	67.5	95	13.7	20.9
1010	Beryllium, micrograms per liter	4 (e)	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1020	Boron, water, filtered, micrograms per liter		140	284	368	1150	343
1025	Cadmium, micrograms per liter	5 (f)	E 0.025	< 0.04	< 0.04	E 0.027	< 0.04
1030	Chromium, micrograms per liter	50 (g)	0.18	0.72	2.2	< 0.12	0.85
1035	Cobalt, micrograms per liter		E 0.03	< 0.04	< 0.04	< 0.04	< 0.04
1040	Copper, micrograms per liter	1000 (h)	0.86	< 0.4	0.7	E 0.23	0.66
1046	Iron, water, filtered, micrograms per liter	300	12.5	E 3.8	E 4.6	< 6	E 4.6
1049	Lead, micrograms per liter		E 0.087	< 0.12	0.143	E 0.072	E 0.072
1056	Manganese, water, filtered, micrograms per liter	50	E 0.15	0.23	0.38	0.83	E 0.12
1057	Thallium, micrograms per liter	2 (i)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1060	Molybdenum, micrograms per liter		7.08	4.64	4.49	12.7	2.49
1065	Nickel, micrograms per liter	100 (j)	0.56	0.07	0.11	< 0.06	< 0.06
1075	Silver, micrograms per liter	100 (k)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1080	Strontium, water, filtered, micrograms per liter		374	262	250	26	70.1
1085	Vanadium, micrograms per liter		4.6	117	55.9	60.9	35.5
1090	Zinc, micrograms per liter	5000 (l)	1	E 0.59	1.3	E 0.37	1.2
1095	Antimony, micrograms per liter	6 (m)	E 0.049	E 0.035	< 0.06	E 0.04	< 0.06

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007

Code	Parameter	MCL	No. 110	No. 124	No. 125	No. 126	No. 130
	Sampling date		**9/17/2007**	**9/19/2007**	**9/27/2007**	**9/18/2007**	**9/19/2007**
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 1.6	7	5	22	5.4
1130	Lithium, water, filtered, micrograms per liter		3.22	4.57	4.92	5.01	7.90
1145	Selenium, micrograms per liter	50 (o)	1.2	1	2	0.48	1.8
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		18.2	1	1	0	2.6
22703	Uranium, natural, micrograms per liter		1.49	1.98	3.42	2.05	3.74
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		126	125	154	146	165
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	0.24	< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.06	< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	1.21	< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	0.39	< 0.12	< 0.12
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.57	E 0.035	0.37	< 0.04	E 0.04
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.016	< 0.016	< 0.02	< 0.016	< 0.016
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.04	< 0.06	< 0.06
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.04	< 0.04	< 0.02	< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.06	< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.04	< 0.04	< 0.02	< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.018	< 0.018	< 0.02	< 0.018	< 0.018
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12	< 0.12	< 0.08	< 0.12	< 0.12
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007

Code	Parameter	MCL	No. 110	No. 124	No. 125	No. 126	No. 130
	Sampling date		9/17/2007	9/19/2007	9/27/2007	9/18/2007	9/19/2007
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.2	< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.1	< 0.06	< 0.06
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.06	< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern		89.82	42.46	44.86	7.7	77.59
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.6	< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.06	< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	0.63	< 0.5	< 0.5	< 0.5	< 0.5
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007

Code	Parameter	MCL	No. 110	No. 124	No. 125	No. 126	No. 130
	Sampling date		9/17/2007	9/19/2007	9/27/2007	9/18/2007	9/19/2007
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter					0.3	1.23
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	521	345	425	297	484
70301	Residue, water, filtered, sum of constituents, milligrams per liter		E 502	E 326	E 424	E 293	E 483

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007

Code	Parameter	MCL	No. 110	No. 124	No. 125	No. 126	No. 130
	Sampling date		**9/17/2007**	**9/19/2007**	**9/27/2007**	**9/18/2007**	**9/19/2007**
70303	Residue, water, filtered, tons per acre-foot					E 0.015	< 0.026
71846	Ammonia, water, filtered, milligrams per liter as NH4					1.02	E 5.11
71851	Nitrate, water, filtered, milligrams per liter	45 (q)				0.159	E 0.006
71856	Nitrite, water, filtered, milligrams per liter						
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter		0.145	0.272	0.318	0.203	0.322
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.6	1	0.6	1	1
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		19	22	20	24	23
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.6	< 0.4	< 0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	E 0.1	< 0.04	E 0.024
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.06	< 0.08	< 0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.08	< 0.12	< 0.12
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.4	< 0.2	< 0.2
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6	< 6	< 4	< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.2	< 0.4	< 0.4
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1	< 1	< 1.4	< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-8.73	-13.39	-12.64	-11.36	-12.42
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-80.8	-51.9	-50.6	-54.3	-46.3
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.12	-7.54	-7.29	-8.09	-6.47
82303	Rn-222, water, unfiltered, picocuries per liter		180	330	300	360	370

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007

Code	Parameter	MCL	No. 110	No. 124	No. 125	No. 126	No. 130
	Sampling date		9/17/2007	9/19/2007	9/27/2007	9/18/2007	9/19/2007
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133	No. 157	No. 210	No. 217	No. 232
	Sampling date		**9/17/2007**	**9/17/2007**	**9/18/2007**	**9/19/2007**	**9/18/2007**
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		21	22.5	19	23.5	19
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		810	903	945	716	947
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00001	0.00004	0.00004	0.00001	0.00004
300	Dissolved oxygen, water, unfiltered, milligrams per liter		7	4.2	6	3	5.8
400	pH, water, unfiltered, field, standard units		8.1	7.4	7.4	8.2	7.4
403	pH, water, unfiltered, laboratory, standard units						
405	Carbon dioxide, water, unfiltered, milligrams per liter						
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter			< 0.05			
608	Ammonia, water, filtered, milligrams per liter as nitrogen			< 0.02			
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.002			
618	Nitrate, water, filtered, milligrams per liter as nitrogen			0.105			
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			0.11			
660	Orthophosphate, water, filtered, milligrams per liter			0.14			
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			0.046			
900	Hardness, water, milligrams per liter as calcium carbonate		96.4	262	272	82.3	234
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate			111	110		67
915	Calcium, water, filtered, milligrams per liter		24.1	66.3	74.7	26.7	66.3
925	Magnesium, water, filtered, milligrams per liter		8.7	23.2	20.7	3.7	16.6
930	Sodium, water, filtered, milligrams per liter		132	81.8	85.1	117	101
931	Sodium adsorption ratio, water, number						
932	Sodium fraction of cations, water, percent in equivalents of major cations						
935	Potassium, water, filtered, milligrams per liter		2.41	4.78	5.35	1.77	4.18
940	Chloride, water, filtered, milligrams per liter	600	95	84.3	87.6	84.4	89.1
945	Sulfate, water, filtered, milligrams per liter	600	102	176	171	67.1	162
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.93	0.28	0.52	0.68	0.50
955	Silica, water, filtered, milligrams per liter		19	13.3	21.8	16.8	26.2
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	2.8	0.51	0.87	6.1	1.6
1005	Barium, water, filtered, micrograms per liter	1000 (d)	53.8	45.5	53.2	62.5	56.3
1010	Beryllium, micrograms per liter	4 (e)	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1020	Boron, water, filtered, micrograms per liter		649	152	153	289	166
1025	Cadmium, micrograms per liter	5 (f)	< 0.04	E 0.021	E 0.025	< 0.04	E 0.034
1030	Chromium, micrograms per liter	50 (g)	0.71	E 0.08	0.54	1.9	0.97
1035	Cobalt, micrograms per liter		< 0.04	E 0.035	E 0.034	E 0.021	E 0.03
1040	Copper, micrograms per liter	1000 (h)	1.1	1.5	0.42	0.66	1.6
1046	Iron, water, filtered, micrograms per liter	300	E 4	E 3.1	< 6	15.5	E 4.1
1049	Lead, micrograms per liter		0.482	E 0.087	< 0.12	< 0.12	0.151
1056	Manganese, water, filtered, micrograms per liter	50	E 0.12	E 0.15	E 0.14	0.3	< 0.2
1057	Thallium, micrograms per liter	2 (i)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1060	Molybdenum, micrograms per liter		4.94	4.39	9.94	1.82	11
1065	Nickel, micrograms per liter	100 (j)	0.47	0.63	0.49	0.18	0.48
1075	Silver, micrograms per liter	100 (k)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1080	Strontium, water, filtered, micrograms per liter		408	813	366	279	361
1085	Vanadium, micrograms per liter		45.4	3.1	6.8	69.4	14.6
1090	Zinc, micrograms per liter	5000 (l)	3.4	0.81	< 0.06	0.94	4
1095	Antimony, micrograms per liter	6 (m)	< 0.06	0.129	E 0.035	< 0.06	E 0.03

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133	No. 157	No. 210	No. 217	No. 232
	Sampling date		**9/17/2007**	**9/17/2007**	**9/18/2007**	**9/19/2007**	**9/18/2007**
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	5.7	E 0.8	< 1.6	4.3	E 1
1130	Lithium, water, filtered, micrograms per liter		4.72	21.2	2.24	5.28	2.97
1145	Selenium, micrograms per liter	50 (o)	1.1	0.45	1.3	1.9	1.9
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter					< 0.008	
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					< 0.026	
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter					E 0.005	
4036	Prometryn, water, filtered, recoverable, micrograms per liter					< 0.006	
4037	Prometon, water, filtered, recoverable, micrograms per liter					< 0.01	
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					< 0.014	
4095	Fonofos, water, filtered, recoverable, micrograms per liter					< 0.006	
7000	Tritium, water, unfiltered, picocuries per liter		3.2	18.9	16.6	1	12.4
22703	Uranium, natural, micrograms per liter		3.58	2.57	2.55	2.84	2.35
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		148	151	163	135	167
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		E 0.062	< 0.04	E 0.061	E 0.027	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.12	0.43	0.24	E 0.04	E 0.07
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133	No. 157	No. 210	No. 217	No. 232
	Sampling date		**9/17/2007**	**9/17/2007**	**9/18/2007**	**9/19/2007**	**9/18/2007**
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter					< 0.08	
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					< 0.01	
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					< 0.005	
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					< 0.009	
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					< 0.01	
39532	Malathion, water, filtered, recoverable, micrograms per liter					< 0.016	
39572	Diazinon, water, filtered, recoverable, micrograms per liter					< 0.005	
39632	Atrazine, water, filtered, recoverable, micrograms per liter					< 0.007	
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter					< 0.005	
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					< 0.006	
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.0882	
49933	C-14, water, filtered, percent modern		69.82	87.36	94.08	76.99	99.84
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	0.57	< 0.5	0.73	1.1	1.6
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					< 0.053	
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					< 0.046	
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					< 0.029	
61593	Iprodione, water, filtered, recoverable, micrograms per liter					< 0.026	
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					< 0.011	
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter					< 0.007	
61598	Methidathion, water, filtered, recoverable, micrograms per liter					< 0.009	
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					< 0.033	
61601	Phosmet, water, filtered, recoverable, micrograms per liter					< 0.008	
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					< 0.035	
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					< 0.007	
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					< 0.01	
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					< 0.0045	
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					< 0.005	
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.042	
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.06	
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					< 0.021	
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					< 0.053	
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					< 0.06	
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					< 0.039	
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					< 0.019	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133	No. 157	No. 210	No. 217	No. 232
	Sampling date		9/17/2007	9/17/2007	9/18/2007	9/19/2007	9/18/2007
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.027	
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.0511	
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					< 0.045	
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						< 0.016
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						< 0.013
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						< 0.024
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						< 0.029
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						< 0.012
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter			0.15			
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	481	565	603	428	597
70301	Residue, water, filtered, sum of constituents, milligrams per liter		E 474	E 543	E 565	E 400	E 567

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133	No. 157	No. 210	No. 217	No. 232
	Sampling date		9/17/2007	9/17/2007	9/18/2007	9/19/2007	9/18/2007
70303	Residue, water, filtered, tons per acre-foot		< 0.026				
71846	Ammonia, water, filtered, milligrams per liter as NH4		0.465				
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	< 0.007				
71856	Nitrite, water, filtered, milligrams per liter						
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter		0.336	0.132	0.172	0.308	0.292
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1	1.3	1.3	1	1.3
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		20	21	22	23	21
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	E 0.024	< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6	< 6	< 6	< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-12.5	-10.73	-10.92	-14.69	-10.92
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-48	-82.4	-75.5	-47.4	-66.6
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-6.71	-10.13	-9.49	-7.05	-8.43
82303	Rn-222, water, unfiltered, picocuries per liter		250	240	250	340	200

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133	No. 157	No. 210	No. 217	No. 232
	Sampling date		**9/17/2007**	**9/17/2007**	**9/18/2007**	**9/19/2007**	**9/18/2007**
82346	Ethion, water, filtered, recoverable, micrograms per liter					< 0.016	
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					< 0.012	
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.006	
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.009	
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.0061	
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.008	
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.016	
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.012	
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.004	
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.06	
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.003	
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.08	
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109	No. 110	No. 133	No. 157	
	Sampling date		**8/21/2012**	**8/21/2012**	**8/21/2012**	**8/21/2012**	
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		20.9	19.3	20.2	23.4	
28	Agency analyzing sample, code		80020	80020	80020	80020	
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		1250	614	835	720	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00006	0.00002	0.00001	M	
300	Dissolved oxygen, water, unfiltered, milligrams per liter		3.7	1.4	1.8	0.6	
400	pH, water, unfiltered, field, standard units		7.2	7.7	8	7.5	
403	pH, water, unfiltered, laboratory, standard units		7.5	7.8	8	7.8	
405	Carbon dioxide, water, unfiltered, milligrams per liter		29	4.5	1.8	7.6	
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		286	140	113	149	
602	Total nitrogen, water, filtered, milligrams per liter		< 3.7	< 0.41	< 0.80	< 0.26	
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.07	< 0.07	< 0.07	< 0.07	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.010	< 0.010	< 0.010	< 0.010	
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.001	< 0.001	0.003	< 0.001	
618	Nitrate, water, filtered, milligrams per liter as nitrogen		3.64	0.342	0.724	0.195	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		< 0.07	< 0.07	< 0.07	< 0.07	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		3.64	0.342	0.727	0.195	
660	Orthophosphate, water, filtered, milligrams per liter		0.135	0.24	0.04	0.108	
666	Phosphorus, water, filtered, milligrams per liter		0.03	0.07	< 0.02	0.03	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.044	0.078	0.013	0.035	
900	Hardness, water, milligrams per liter as calcium carbonate		402	159	137	211	
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		167	43	43	88	
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate		177	41		87	
915	Calcium, water, filtered, milligrams per liter		118.0	39.6	32.6	53	
925	Magnesium, water, filtered, milligrams per liter		25.9	14.4	13.3	19	
930	Sodium, water, filtered, milligrams per liter		126	67.5	127	69	
931	Sodium adsorption ratio, water, number		2.73	2.33	4.75	2.07	
932	Sodium fraction of cations, water, percent in equivalents of major cations		40	47	66	41	
935	Potassium, water, filtered, milligrams per liter		3.84	3.72	2.95	4.47	
940	Chloride, water, filtered, milligrams per liter	600	127	63.4	101	72	
945	Sulfate, water, filtered, milligrams per liter	600	235	88.8	110	128	
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.18	0.35	0.51	0.21	
955	Silica, water, filtered, milligrams per liter		33.9	15.4	27.8	12.4	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	0.97	0.9	1.5	0.45	
1005	Barium, water, filtered, micrograms per liter	1000 (d)	31.1	21.9	55	37.3	
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		175	156	438	142	
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	8	< 3.7	16.7	3.6	
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50	< 0.16	< 0.16	0.93	20.4	
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		819	294	480	613	
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109	No. 110	No. 133	No. 157	
	Sampling date		**8/21/2012**	**8/21/2012**	**8/21/2012**	**8/21/2012**	
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 2.2	< 6.6	< 6.6	< 2.2	
1130	Lithium, water, filtered, micrograms per liter		10.7	5.26	8.95	27.5	
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter						
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		225	118	156	124	
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109	No. 110	No. 133	No. 157	
	Sampling date		8/21/2012	8/21/2012	8/21/2012	8/21/2012	
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		235	115	93.6	123	
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern						
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109	No. 110	No. 133	No. 157	
	Sampling date		8/21/2012	8/21/2012	8/21/2012	8/21/2012	
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter						
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	826	363	511	432	
70301	Residue, water, filtered, sum of constituents, milligrams per liter		828	365	476	434	

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109	No. 110	No. 133	No. 157	
	Sampling date		**8/21/2012**	**8/21/2012**	**8/21/2012**	**8/21/2012**	
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4		< 0.013	< 0.013	< 0.013	< 0.013	
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	16.1	1.52	3.21	0.861	
71856	Nitrite, water, filtered, milligrams per liter		< 0.003	< 0.003	0.009	< 0.003	
71865	Iodide, water, filtered, milligrams per liter		0.008	0.002	0.003	0.015	
71870	Bromide, water, filtered, milligrams per liter		0.502	0.13	0.313	0.125	
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05					
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter						
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil						
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-47.6	-72.7	-54	-81.5	
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-6.63	-9.08	-7.14	-9.84	
82303	Rn-222, water, unfiltered, picocuries per liter						

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109	No. 110	No. 133	No. 157	
	Sampling date		8/21/2012	8/21/2012	8/21/2012	8/21/2012	
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		1260	611	840	715	
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203	No. 210	No. 234		
	Sampling date		**8/22/2012**	**8/22/2012**	**8/21/2012**		
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		22.7	22.7	20.5		
28	Agency analyzing sample, code		80020	80020	80020		
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		743	848	992		
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	0.00003	0.00003		
300	Dissolved oxygen, water, unfiltered, milligrams per liter		2.3	3.8	4.8		
400	pH, water, unfiltered, field, standard units		8.6	7.5	7.5		
403	pH, water, unfiltered, laboratory, standard units		8.5	7.7	7.6		
405	Carbon dioxide, water, unfiltered, milligrams per liter		0.8	9.6	12		
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		185	188	238		
602	Total nitrogen, water, filtered, milligrams per liter		< 0.88	< 3.0	< 5.0		
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.07	< 0.07	< 0.07		
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.010	< 0.010	< 0.010		
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.001	< 0.001	< 0.001		
618	Nitrate, water, filtered, milligrams per liter as nitrogen		0.814	2.97	4.97		
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		< 0.07	< 0.07	< 0.07		
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		0.814	2.97	4.97		
660	Orthophosphate, water, filtered, milligrams per liter		0.049	0.269	0.318		
666	Phosphorus, water, filtered, milligrams per liter		< 0.02	0.08	0.09		
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.016	0.088	0.104		
900	Hardness, water, milligrams per liter as calcium carbonate		116	240	277		
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate			85	82		
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate			84	80		
915	Calcium, water, filtered, milligrams per liter		21	62.9	76.2		
925	Magnesium, water, filtered, milligrams per liter		15.2	20	21.1		
930	Sodium, water, filtered, milligrams per liter		119	88.5	108		
931	Sodium adsorption ratio, water, number		4.84	2.49	2.82		
932	Sodium fraction of cations, water, percent in equivalents of major cations		69	44	45		
935	Potassium, water, filtered, milligrams per liter		1.81	5.36	4.36		
940	Chloride, water, filtered, milligrams per liter	600	77.4	83.2	90.5		
945	Sulfate, water, filtered, milligrams per liter	600	93.9	143	158		
950	Fluoride, water, filtered, milligrams per liter	2 (b)	1.33	0.48	0.49		
955	Silica, water, filtered, milligrams per liter		20.4	22.7	29.2		
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	8	0.99	1.3		
1005	Barium, water, filtered, micrograms per liter	1000 (d)	27.5	41.5	46.2		
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		834	141	172		
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	3.5	< 3.2	9.2		
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50	< 0.16	< 0.16	0.17		
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		300	315	378		
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203	No. 210	No. 234		
	Sampling date		**8/22/2012**	**8/22/2012**	**8/21/2012**		
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 6.6	< 6.6	< 2.2		
1130	Lithium, water, filtered, micrograms per liter		4.04	3.75	5.68		
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter						
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		158	156	197		
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203	No. 210	No. 234		
	Sampling date		8/22/2012	8/22/2012	8/21/2012		
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454	Dicrotophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		158	155	196		
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern						
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203	No. 210	No. 234		
	Sampling date		8/22/2012	8/22/2012	8/21/2012		
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter						
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	459	536	610		
70301	Residue, water, filtered, sum of constituents, milligrams per liter		450	533	628		

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203	No. 210	No. 234		
	Sampling date		**8/22/2012**	**8/22/2012**	**8/21/2012**		
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4		< 0.013	< 0.013	< 0.013		
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	3.6	13.2	22		
71856	Nitrite, water, filtered, milligrams per liter		< 0.003	< 0.003	< 0.003		
71865	Iodide, water, filtered, milligrams per liter		0.01	0.002	0.002		
71870	Bromide, water, filtered, milligrams per liter		0.226	0.15	0.273		
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05					
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter						
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil						
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-54.5	-73.2	-62.6		
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-7.28	-9.03	-7.94		
82303	Rn-222, water, unfiltered, picocuries per liter						

Source: USGS California Water Science Center.

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203	No. 210	No. 234		
	Sampling date		8/22/2012	8/22/2012	8/21/2012		
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		739	852	967		
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

(a) MCL shown for U.S EPA STORET No. 620.
(b) MCL shown for U.S. EPASTORET No. 951.
(c) MCL shown for U.S. EPA STORET No. 1002.
(d) MCL shown for U.S. EPA STORET No. 1007.
(e) MCL shown for U.S. EPA STORET No. 1012.
(f) MCL shown for U.S. EPA STORET No. 1027.
(g) MCL shown for U.S. EPA STORET No. 1034.
(h) MCL shown for U.S. EPA STORET No. 1042.
(i) MCL shown for U.S. EPA STORET No. 1059.
(j) MCL shown for U.S EPA STORET No. 1067.
(k) MCL shown for U.S. EPASTORET No. 1077.
(l) MCL shown for U.S. EPA STORET No. 1092.
(m) MCL shown for U.S. EPA STORET No. 1097.
(n) MCL shown for U.S. EPA STORET No. 1105.
(o) MCL shown for U.S. EPA STORET No. 1147.
(p) MCL shown for U.S. EPA STORET No. 34247.
(q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.
M--Presence verifed but not quantified.
MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.
V--Biased results from contamination.

Source: USGS California Water Science Center.

ANNUAL REPORT

COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT

CALENDAR YEAR 2013

APPENDIX F

WATER QUALITY DATA FOR MWD AQUEDUCT NO. 5 DISCHARGE AT OUTLET WR-34

Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD

Parameter	WR-34	WR-34	WR-34	WR-34	WR-34	WR-34	WR-34
Sampling Date	5/30/2012	7/12/2012	8/28/2012	9/18/2012	11/1/2012	12/21/2012	1/24/2013
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	470	390	350	390	310	320	330
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	130		100		100	96	100
Carbonate as CO3, milligrams per liter	< 3.0		< 3.0		< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0		< 3.0		< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter		< 0.2	< 0.2	< 0.2	0.27	< 0.20	< 1.0
Kjeldahl Nitrogen, milligrams per liter	0.48	0.41	0.23	0.58	0.35	0.32	0.28
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	0.27	< 0.20	< 1.0
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrogen (Total), milligrams per liter		0.41		0.58			
Organic Nitrogen, milligrams per liter		0.4		0.6			
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.050	< 0.050
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter		< 0.05					
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	100		84		82	79	85
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD

Parameter	WR-34	WR-34	WR-34	WR-34	WR-34	WR-34	WR-34
Sampling Date	2/11/2013	3/5/2013	4/12/2013	5/15/2013	6/12/2013	7/11/2013	8/6/2013
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	390	350	480	500	620	580	710
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	110	110	130	130	140	140	59
Carbonate as CO3, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	< 0.20	0.27	< 0.20	0.20	0.20	< 0.20	< 0.20
Kjeldahl Nitrogen, milligrams per liter	0.20	0.79	< 0.10	0.31	0.33	0.35	0.38
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	0.27	< 0.20	0.20	0.20	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrogen (Total), milligrams per liter							
Organic Nitrogen, milligrams per liter							
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	90	87	110	110	110	110	48
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD

Parameter	WR-34	WR-34	WR-34	WR-34			
Sampling Date	**9/11/2013**	**10/3/2013**	**11/14/2013**	**12/12/2013**			
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	630	550	540	580			
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.10	< 0.059	< 0.10	< 0.10			
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	140	89	140	150			
Carbonate as CO3, milligrams per liter	< 3.0	< 1.7	< 3.0	< 3.0			
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 1.7	< 3.0	< 3.0			
Inorganic Nitrogen, milligrams per liter	< 0.20	< 0.11	< 0.20	< 0.20			
Kjeldahl Nitrogen, milligrams per liter	0.26	0.28	0.36	0.28			
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.11	< 0.20	< 0.20			
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.017	< 0.10	< 0.10			
Nitrogen (Total), milligrams per liter							
Organic Nitrogen, milligrams per liter							
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.0028	< 0.050	< 0.050			
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter		< 0.01					
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	110	73	120	120			
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

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