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## SEASIDE BASIN WATERMASTER MEMORANDUM 2015-02

**Date:** November 6, 2015  
**To:** Seaside Basin Watermaster  
**From:** Jonathan Lear, PG, CHg, Senior Hydrogeologist  
Joe Oliver, PG, CHg, Water Resources Division Manager  
Tom Lindberg, Associate Hydrologist  
**Subject:** Water Year 2015, Groundwater-Quality and Groundwater-Level Data  
Collected for the Seaside Groundwater Basin Watermaster

### SUMMARY

This memorandum transmits groundwater-quality and groundwater-level data collected for the Seaside Groundwater Basin Watermaster Board (Watermaster) during Water Year (WY)<sup>1</sup> 2015. This report incorporates the data that were collected and reported for each quarter during the period from October 1, 2014 through September 30, 2015. This information is being provided to the Watermaster for information purposes, and is in compliance with the monitoring protocols described in the Watermaster's *Seaside Basin Monitoring and Management Program* (SBMMP, revision date September 5, 2006), which was prepared in response to the court decision filed March 27, 2006 (as amended by February 9, 2007 filing) in the Seaside Basin adjudication case. This document has been prepared by the Monterey Peninsula Water Management District (MPWMD) on behalf of the Watermaster.

This document is organized into the following four categories of data:

- Precipitation,
- Streamflow in Arroyo Del Rey,
- Water-quality data collected from MPWMD and other basin wells, and
- Static water levels collected from MPWMD and other Watermaster basin wells.

<sup>1</sup> The WY begins on October 1, and ends September 30 of the indicated year.

## **PRECIPITATION**

A continuous-recording precipitation gage is located at the southeastern corner of the Southern Coastal Subarea of the Seaside Groundwater Basin (Basin). Data from the precipitation gage are posted to the [www.weatherunderground.com](http://www.weatherunderground.com) website and are available real time as well as archival data sets. **Figure 1** shows the location of the weather station and the average annual rainfall totals for the Basin. **Figure 2** shows daily and cumulative rainfall recorded by the weather station for all four quarters of WY 2015. Average annual rainfall for the location of the weather station is 16 inches. As **Figure 2** illustrates, at the close of WY 2015, the weather station had logged 14.6 inches, which is approximately 91% of normal rainfall.

## **STREAMFLOW**

There is a distinct lack of surface drainages in the Basin due to the high infiltration capacities of the dune sands which overlie the aquifers in much of the Basin. The overlying soils have the capacity to infiltrate large storm events; therefore, water is not concentrated into channels. The Arroyo Del Rey drainage is the largest drainage in the Basin. The headwaters of the drainage are in the Laguna Seca Subarea, which flow into the Southern Coastal Subarea of the Basin and collect in Laguna Grande and Roberts Lake.

A continuous streamflow gage was operated by the USGS in Del Rey Oaks Park from 1966 to 1978. MPWMD re-occupied the site in 2002 and data collection is ongoing. The catchment area above the gage is 13.8 square miles. **Figure 3** contains the average daily flow record for the Arroyo Del Rey at Del Rey Oaks gaging station for WY 2015.

## **WATER-QUALITY DATA: MPWMD AND OTHER BASIN WELLS**

### **MPWMD Coastal Monitor-Well Network**

Under the current monitoring program conducted for the Watermaster, the MPWMD collects *quarterly* samples from six monitor wells at three locations that are closest to the coastline, and *annually* from six additional wells at three locations that are farther from the coastline. The well numbers, names and sampling schedule for the MPWMD coastal monitor wells currently being sampled for the Watermaster are listed below.

**MPWMD Coastal Monitor Wells**

<u>Well Number</u>	<u>Well Name</u>	<u>Sample Interval</u>
15S01E15N3	MSC-Shallow	quarterly
15S01E15N2	MSC-Deep	quarterly
15S01E15F1	PCA-W-Shallow	quarterly
15S01E15F2	PCA-W-Deep	quarterly
15S01E11Pa	FO-09-Shallow	quarterly
15S01E11Pb	FO-09-Deep	quarterly
15S01E15K5	PCA-E-Shallow	annually
15S01E15K4	PCA-E-Deep	annually
15S01E23Ca	Ord Terrace-Shallow	annually
15S01E23Cb	Ord Terrace-Deep	annually
15S01E12Fa	FO-10-Shallow	annually
15S01E12Fc	FO-10-Deep	annually

These sites are shown on **Figure 4** and completion data for these wells are shown in **Table 1**. At each site, a “shallow” and “deep” monitor well have been installed (either in separate boreholes or as multiple completions in a single borehole), generally corresponding to well completions within the two principal aquifer units that have been historically recognized in the Basin, the Paso Robles Formation (QTp or QTc for undifferentiated Continental Deposits) and Santa Margarita Sandstone (Tsm), respectively<sup>2</sup>. More recently, it has been recognized that the Tsm deposits transition to the Purisima Formation (Tp) in the Northern Coastal Subarea of the Basin. The monitor wells are constructed of 2-inch PVC casing, with screens adjacent to the more permeable (i.e., based on lithologic and geophysical logging analyses) sand “packages” within each aquifer unit. The aquifer units are separated from each other in the wells by cement strata-isolation seals.

**MPWMD Coastal Monitor Wells Water-Sample Collection**

Water-sample collection from the MPWMD coastal monitor wells for WY 2015 was accomplished by the Low-Flow Method. As a means to investigate alternative water-quality sampling technologies, MPWMD staff completed a test of different “low-flow” sampling methodologies at a demonstration well in 2009. Motivation behind changing the sampling method included a desire to: (a) switch to a less invasive sampling method to prolong the life of the monitoring wells and (b) implement a less labor-intensive method that will be more cost effective to the Watermaster in the long run. Details of this sampling methodology are described below. It is intended that this methodology will be used to sample all MPWMD monitor wells in the future, unless site specific conditions preclude this.

<sup>2</sup> It should be noted that at the Ord Terrace site, both the Shallow and Deep monitor wells are completed in the Tsm aquifer and currently only the Ord Terrace-Shallow well is being monitored.

- **Low-Flow Sampling Method**

Low-flow/low-volume purging method is sample collection using a pumping mechanism that produces low-flow rates [less than 1 liter per minute (L/min) or less than 0.26 gallon per minute (gpm)] that cause minimal drawdown of the static water table and usually employs a flow cell in which geochemical parameters are continuously monitored. These parameters may include dissolved oxygen content, oxidation-reduction potential (redox), conductivity, turbidity, and/or pH. The intent of this sampling protocol is to collect a representative sample from the monitored groundwater zone. A representative sample may be obtained when all the monitored chemical parameters have stabilized, thus quantitatively demonstrating that the sample being collected is in equilibrium with the groundwater system. The low-flow/low volume purging method (purging to parameter stability) tends to isolate the interval being sampled, which provides more accurate water-quality measurements and reduces the volume of purge water generated. This method has an advantage in that it can limit vertical mixing and volatilization of any volatile organic compounds (VOCs) in solution within the well casing or borehole, as compared to high-flow purging and sampling (e.g., air-lift sampling method).

**Figure 5** illustrates the QED Environmental Systems, Inc. low-flow sampling equipment. The bladder pump is placed in the monitor well and powered by a fuel source of compressed gas. The peristaltic action of the pump lifts water from the well and initiates flow through the well screen at the location where the drop tube and intake assembly have been placed. An electric wire sounder is used to measure drawdown to insure minimal drawdown is caused by pumping the well. Water-quality parameters are monitored at the flow cell as the well is purged.

The low-flow/low-volume purging method of sample collection has been described in groundwater monitoring literature since the mid-1980s with a defined methodology being accepted by the U.S. EPA in 1995. These protocols are summarized below as adopted by MPWMD staff:

1. **Flow rate**

The flow rate used during purging must be low enough to avoid increasing the water turbidity. The following measures should be taken to determine the appropriate flow rate: (a) The flow rate shall be determined for each well, based on the hydraulic performance of the well; (b) The flow must be adjusted to obtain stabilization of the water level in the well as quickly as possible; (c) The maximum flow rate used should not exceed 1 liter per minute (0.26 gpm); (d) Once established, this rate should be reproduced with each subsequent sampling event; (e) If a significant change in initial water level occurs between events, it may be necessary to re-establish the optimum flow rate at each sampling event.

2. **Measurement of water level and drawdown**

Measurement of the water level in the well during purging is important when establishing the optimum flow rate for purging. The goal is to achieve a stabilized pumping water level as quickly as possible with minimal drawdown, to avoid stressing the formation and mobilizing solids, and to obtain stabilized indicator parameters in the shortest time possible.

### **3. Measurement of indicator parameters**

Continuous monitoring of water-quality indicator parameters is used to determine when purging is completed and sampling should begin. Measurement of indicator parameters (dissolved oxygen content, redox potential, specific conductance, temperature and pH) is required. This is most easily performed using an in-line flow cell (closed) system attached directly to the pump discharge tubing. For turbidity measurement, a separate field nephelometer should be used.

If portable systems are used, they must be placed carefully into the well and lowered into the screen zone as slowly as possible. Placement of the portable pump can disturb the groundwater flow conditions resulting in non-equilibrium conditions. As a result, longer purge times and greater purge volumes may be necessary to achieve indicator parameter stabilization. In general, this may require that after installation, the portable pump should remain in place for a minimum of 1-2 hours to allow settling of solids and re-establishment of horizontal flow through the screen zone. If initial turbidity readings are excessive (>50 NTU), pumping should cease and the well should rest for another 1-2 hours before initiating pumping again. In wells set in very fine-grained formations, longer waiting periods may be required. Continuous water-level measurement devices are preferred, such as down-hole pressure transducers, but electronic water-level tapes can be used. The devices used should be capable of measuring to 0.01-foot precision.

### **4. Sample Collection**

Water samples for laboratory analyses must be collected before water has passed through the flow-through cell (use a by-pass assembly or disconnect cell to obtain sample). VOC samples should be collected first and directly into pre-preserved sample containers. All sample containers are filled by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. During purging and sampling, the tubing should remain filled with water so as to minimize possible changes in water chemistry upon contact with the atmosphere.

### **Water-Quality Network Reporting Status**

Water chemistry analytical results for the samples collected during WY 2015 are provided in the table in **Appendix 1**. These include: (a) annual sample results from coastal and inland monitor wells that were added as part of the monitoring well network enhancement study that was conducted by MPWMD for the Watermaster in 2007; (b) annual sample results for the active Watermaster producer wells in the coastal subareas of the Basin that are required to collect these

**Table 1. Summary of Well Completions, MPWMD Coastal Seaside Basin Watermaster Wells.**

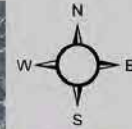
SUMMARY OF MPWMD COASTAL SEASIDE BASIN GROUNDWATER QUALITY MONITOR WELLS													
Site	Well Name	Location Description	Well Number	Date Drilled	DWR Drillers Log	Hole Depth (feet)	Well Depth (feet)	Screened Interval (feet)	Strata Seal (feet)	Casing Type	Geologic Unit	E-Log	Elevation (feet AMSL)
MSC		former MSC mine north of Playa Ave. and west of Hwy. 1											
	MSC-Shallow	approx. 10' S of north property line	15S/1E-15N3	5/25/1990	338413	720	695	490 - - 680	95 - 275	2" pvc	QTp	---	80.1
	MSC-Deep	approx. 7' E of MSC-Shallow	15S/1E-15N2	5/25/1990	338425	920	865	810 - 850	725 - 775	2" pvc	Tsm	yes	80.29
PCA WEST		former PCA mine W of Hwy. 1											
	PCA-W Shallow	approx. 200' SE of ocean bluff	15S/1E-15F1	3/28/1990	338400	600	585	525 - 575	120 - 150	2" pvc	QTp	---	64.22
	PCA-W Deep	approx. 50' E of PCA-W Shallow	15S/1E-15F2	3/90	338401	900	885	825 - 875	760 - 790	2" pvc	Tsm	yes	65.18
PCA EAST		vacant lot NE of Seaside High baseball field											
	PCA-E Shallow	approx. 300' E Monterey Rd, 50" N fence	15S/1E-15K3	4/16/1990	338402	863	410	350 - 400	110 - 150	2" pvc	QTp	---	68.51
	PCA-E Deep	(same borehole as shallow well)	15S/1E-15K4	4/16/1990	338402	863	710	650 - 700	580 - 620	2" pvc	Tsm	yes	68.54
ORD TERRACE		Ord Terrace School property south of Ord Grove Ave.											
	OT-Shallow	1700 block Ord Grove Ave.	15S/1E-23Ca	8/5/1999	---	530	340	280 - 330	0 - 260	2" pvc	upper Tsm	---	228.65
	OT-Deep	(same borehole as shallow well)	15S/1E-23Cb	8/5/1999	---	530	450	390 - 440	350 - 377	2" pvc	lower Tsm	yes	228.63
MPWMD # FO-09		E of Hwy.1, SE of Okinawa Rd.											
	# 9-Shallow	50' east of utility service rd.	15S/1E-11Pa	8/16/1994	---	1,110	660	610 - 650	500 - 540	2" pvc	QTp (?)	---	118.89
	# 9-Deep	(same borehole as shallow well)	15S/1E-11Pb	8/16/1994	---	1,110	840	790 - 830	700 - 765	2" pvc	Tsm (?)	yes	118.85
MPWMD # FO-10		south of Light Fighter Drive, behind Barker Theater Building											
	# 10-Shallow	20' north of access road curb	15S/1E-12Fa	9/3/1996	---	1,500	650	620 - 640	480 - 500	2" pvc	QTp	---	200.85
	# 10-Deep	(same borehole as shallow well)	15S/1E-12Fc	9/3/1996	---	1,500	1,420	1380 - 1410	1280 - 1300	2" pvc	Tsm (?)	yes	201.03
<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. Official State well numbers end with a numeral; unofficial MPWMD well numbers end with a small case letter.</li> <li>2. Geologic Unit refers to the unit adjacent to the screened interval: QTp = Paso Robles Formation; Tsm = Santa Margarita Sandstone.</li> <li>3. Elevation refers to the water level reference point elevation surveyed by Central Coast Surveyors. For additional information, see "Documentation of 2008 Well Elevation Surveys", MPWMD Seaside Basin Watermaster Memorandum 2008-05.</li> <li>4. Well completion data at site MSC are documented in "Installation of Monitoring Well Cluster, Monterey Sand Company", Staal, Gardner &amp; Dunne, Inc. (SGD), July 1990.</li> <li>5. Well completion data at sites PCA West and PCA East are documented in "Hydrogeologic Investigation, PCA Well Aquifer Test", SGD, July 1990.</li> <li>6. Well completion data at site MPWMD FO-09 are documented in "Summary of 1994 Fort Ord Monitor Well Installations", MPWMD Technical Memorandum 94-07.</li> <li>7. Well completion data at site MPWMD FO-10 are documented in "Summary of 1996 Seaside Basin Monitor Well Installations", MPWMD Technical Memorandum 97-04.</li> <li>8. Two dashes (i.e., "-") indicate multiple screened intervals.</li> <li>9. Three dashes (i.e., "---") indicate not applicable or not available.</li> </ol>													

**Legend**

**Annual Rainfall  
 (inches)**

- 15
- 17
- 19

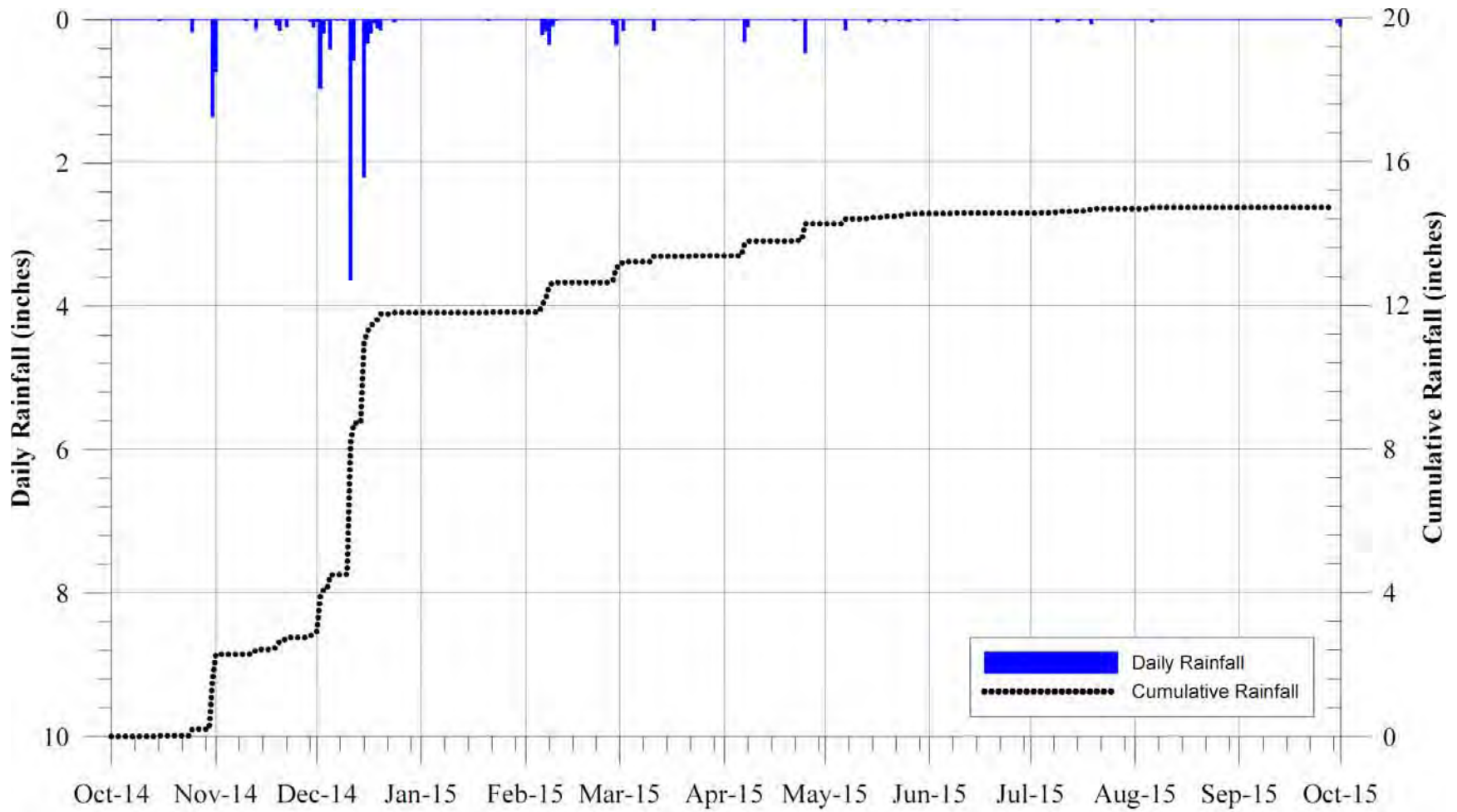
Seaside Groundwater Basin



**Figure 1. Location of Weather Station KMRY and Average Annual Rainfall for the Seaside Groundwater Basin, Seaside, CA**

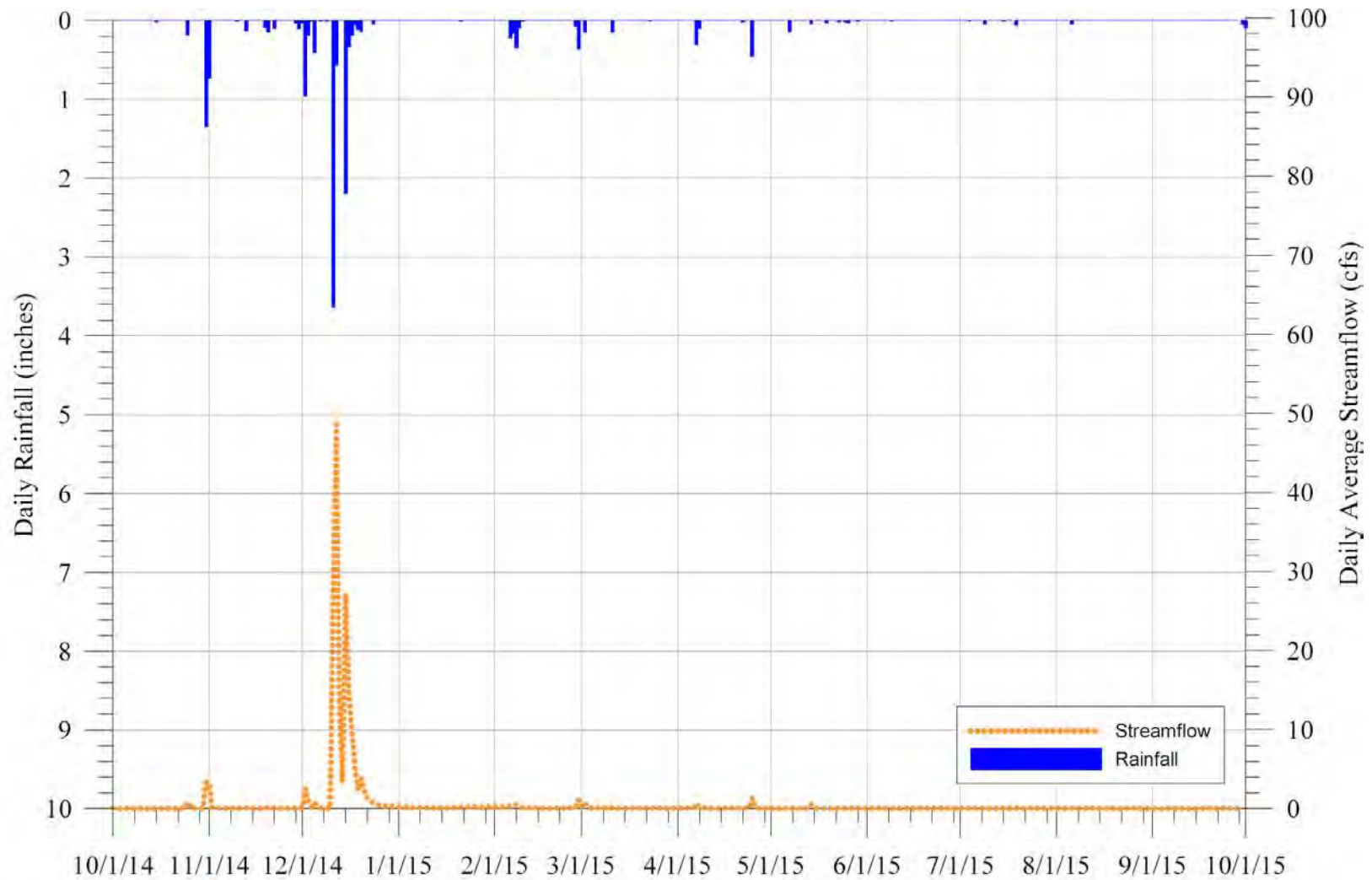


Datasources: Rainfall Totals - Monterey County  
 Photobase - AMBAG 2005



**Figure 2. Daily and Cumulative Rainfall Measured at Monterey Airport, Monterey, California**





**Figure 3. Daily Rainfall Measured at Monterey Airport and Average Daily Streamflow Measured at MPWMD Canyon Del Rey Gage, Monterey, California**

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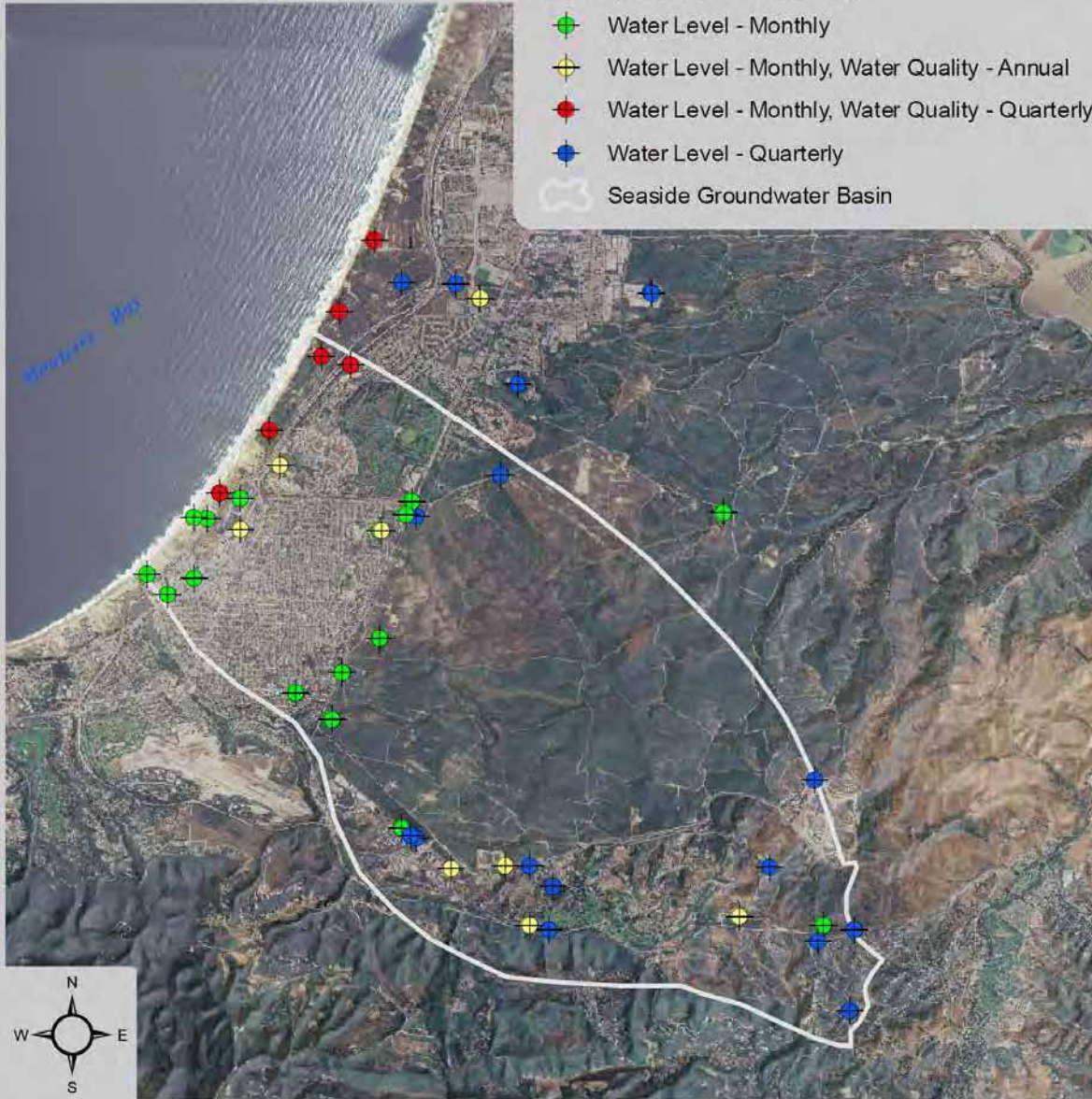


## Legend

### Monitor Well

### Data Type and Frequency

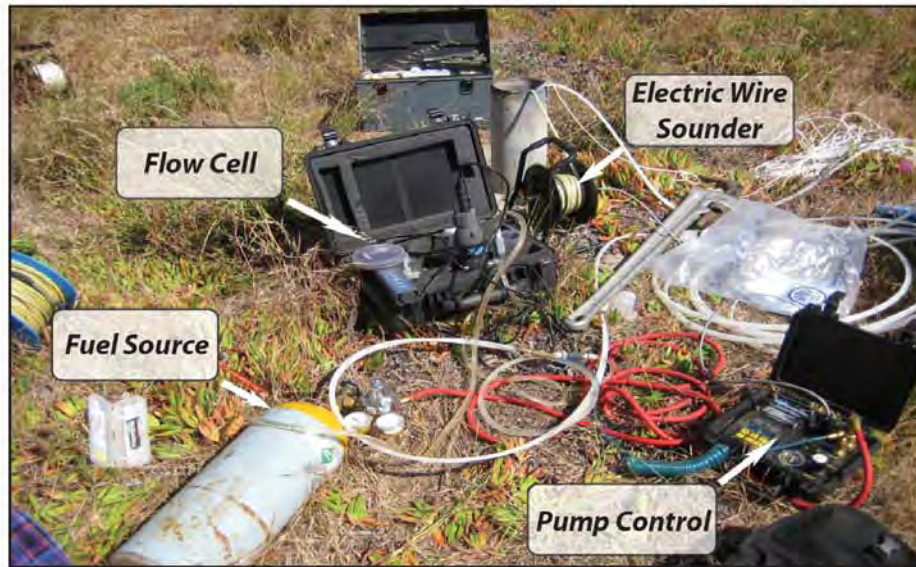
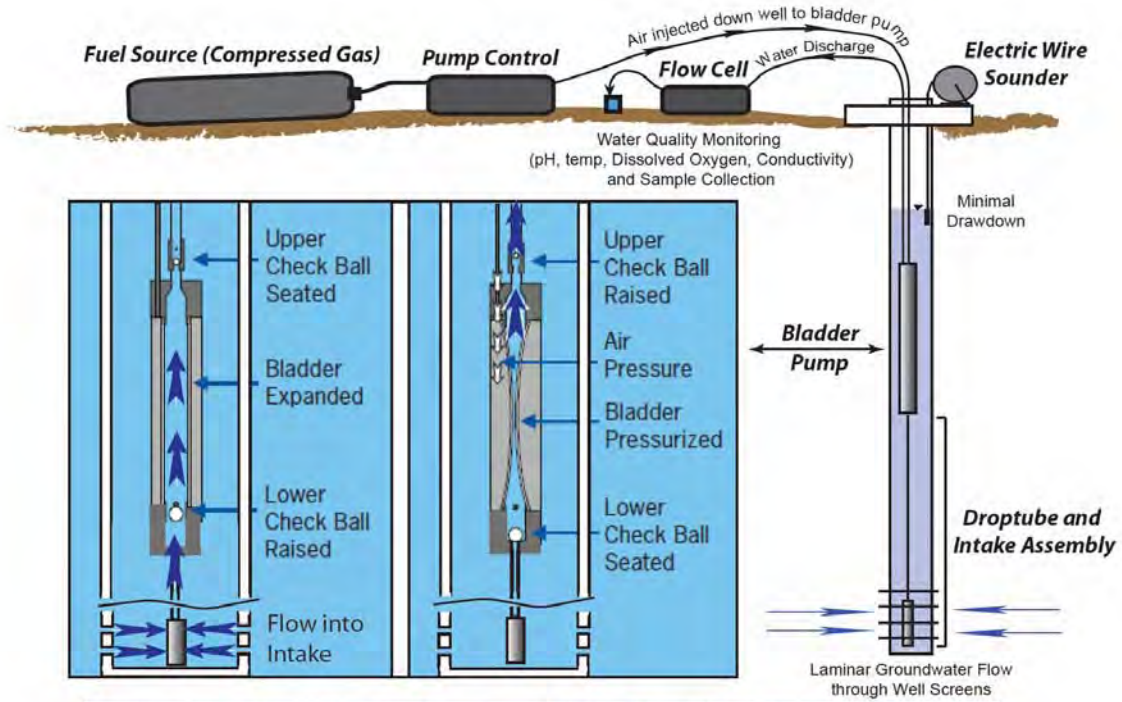
- Water Level - Monthly
- Water Level - Monthly, Water Quality - Annual
- Water Level - Monthly, Water Quality - Quarterly
- Water Level - Quarterly
- Seaside Groundwater Basin



**Figure 4. Seaside Groundwater Basin Watermaster Monitoring Well Network, Seaside, CA**



Data sources: Rainfall Totals - Monterey County  
Photobase - AMBAG 2005






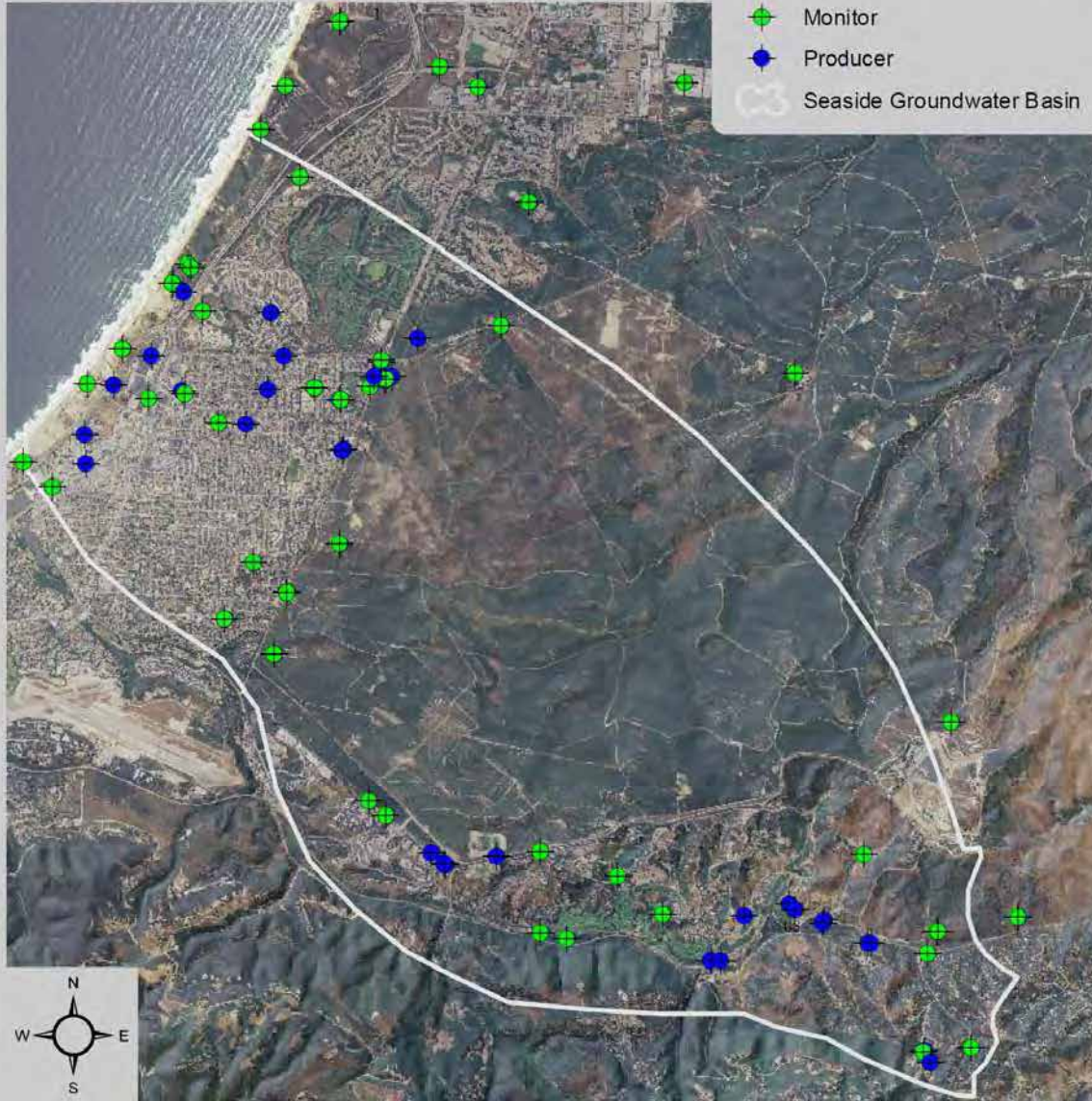
**Figure 5. Low Flow Groundwater Sampling System Presented in Cartoon and Photograph**

**Legend**

**Watermaster Well**

**Category**

-  Monitor
-  Producer
-  Seaside Groundwater Basin



**Figure 6. Seaside Groundwater Basin Watermaster Wells by Category, Seaside, CA**

0 0.5 1 2  
Miles

# **Appendix 1**

## **Seaside Basin Groundwater Quality Monitoring Results**

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## Summary Water Quality Report - WY 2015

<0.1 = Not detected above detection limit of 0.1 mg/L      --- = No analysis performed      all values in mg/L unless otherwise noted

Well:101 MSC-Shallow

### Well No. 101 MSC-Shallow

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
09/23/2015	18	35	5	3.9	81	13	0.1	43	<1	<0.010	<0.010	<0.1	<0.05	0.2	6.1	208	317
06/29/2015	19	33	5	2.7	82	19	0.1	45	1	<0.010	<0.010	<0.1	<0.05	0.2	7	231	333
03/25/2015	19	33	5	2.7	84	11	0.7	44	<1	0.024	<0.010	<0.1	<0.05	0.1	6.8	200	338
09/11/2014	19	34	5	2.8	83	14	<0.1	48	<1	<0.010	<0.010	<0.1	<0.05	<0.1	6.8	206	308

### Well No. 102 MSC-Deep

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
09/23/2015	72	107	15	4.5	326	26	0.3	146	<1	0.094	0.029	<0.1	0.11	0.4	7.4	600	1006
06/29/2015	74	109	16	4.6	359	2	0.3	149	<1	0.06	0.088	<0.1	0.12	0.4	7.4	571	1026
03/25/2015	77	111	16	4.6	337	20	0.2	147	<1	0.236	0.09	0.1	0.11	0.4	7	600	1024
09/11/2014	80	114	17	4.8	325	40	0.2	172	<1	0.082	0.125	<0.1	0.11	0.1	7.2	580	1013

### Well No. 103 PCA-W Shallow

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
09/24/2015	20	37	5	2.4	87	10	<0.1	44	1	<0.010	<0.010	<0.1	<0.05	0.2	6.8	223	337
06/29/2015	20	33	5	2.2	88	10	0.1	45	1	0.102	0.018	<0.1	<0.05	0.2	6.9	188	322
03/25/2015	19	34	5	2.2	90	10	0.3	44	<1	0.315	0.013	<0.1	<0.05	0.1	6.4	211	349
09/11/2014	20	34	5	2.2	93	10	<0.1	49	1	0.184	0.013	<0.1	<0.05	<0.1	6.7	214	319

<0.1 = Not detected above detection limit of 0.1 mg/L      --- = No analysis performed      all values in mg/L unless otherwise noted

Well:104 PCA-W Deep

**Well No. 104 PCA-W Deep**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
09/24/2015	86	108	18	4.9	366	39	0.2	168	<1	0.048	0.16	<0.1	0.12	0.4	6	674	1148
06/29/2015	86	108	19	4.9	361	41	0.3	172	<1	0.256	0.176	<0.1	0.13	0.5	6.3	663	1172
03/25/2015	88	113	20	5.1	353	41	0.2	173	<1	0.275	0.172	<0.1	0.12	0.4	6.2	640	1172
09/11/2014	90	118	21	5.3	326	45	0.2	215	<1	0.057	0.180	<0.1	0.13	<0.1	6.2	694	1145

**Well No. 105 PCA-E Shallow**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/23/2015	16	39	4	2.1	77	6	0.1	46	2	0.065	<0.010	<0.1	<0.05	0.2	7.8	214	305

**Well No. 106 PCA-E Deep**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/23/2015	43	80	8	3.5	199	24	0.3	82	<1	<0.010	<0.010	<0.1	0.08	0.3	7.5	394	628
12/10/2014	44	81	9	3.5	205	25	0.4	80	<1	<0.010	<0.010	<0.1	0.08	0.3	7.6	388	664

**Well No. 109 Ord Terrace-Shallow**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
08/04/2015	63	74	16	3.8	226	46	0.2	112	13	0.217	0.149	<0.1	0.07	0.4	7.4	494	831

<0.1 = Not detected above detection limit of 0.1 mg/L      --- = No analysis performed      all values in mg/L unless otherwise noted

Well: 111 FO-09-Shallow

**Well No. 111 FO-09-Shallow**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
09/23/2015	24	49	3	3.3	71	<1	<0.1	66	<1	0.107	<0.010	<0.1	0.07	1.5	6.1	326	360
06/29/2015	25	34	5	3.6	93	4	0.1	52	<1	4.865	0.043	<0.1	0.05	0.2	6.9	217	353
03/25/2015	24	32	4	3.4	99	4	<0.1	52	<1	5.176	0.038	<0.1	<0.05	0.1	6.8	240	360
09/11/2014	27	34	5	3.6	100	5	<0.1	60	<1	4.358	0.029	<0.1	<0.05	<0.1	7	206	338

**Well No. 112 FO-09-Deep**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
09/23/2015	25	37	4	3.9	94	4	0.1	51	<1	5.772	0.051	<0.1	<0.05	0.2	6.9	240	341
06/29/2015	18	51	4	3.4	70	<1	<0.1	68	<1	0.309	<0.010	0.1	0.07	<0.1	6.4	386	348
03/25/2015	25	52	3	3.5	118	<1	0.2	67	<1	0.292	<0.010	<0.1	0.07	0.3	6.7	251	441
09/11/2014	23	53	4	3.6	120	<1	0.5	77	<1	0.506	<0.010	<0.1	<0.05	0.2	6.6	268	411

**Well No. 113 FO-10-Shallow**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
08/04/2015	13	39	2	2.6	63	8	0.1	44	1	2.017	0.1	<0.1	0.06	0.2	7.2	180	269

**Well No. 114 FO-10-Deep**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
08/04/2015	19	39	2	2.5	70	13	0.1	45	2	0.97	0.024	<0.1	0.06	0.2	8	200	296



<0.1 = Not detected above detection limit of 0.1 mg/L      --- = No analysis performed      all values in mg/L unless otherwise noted

Well: 150 Cypress Pacific Production

**Well No. 150 Cypress Pacific Production**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/14/2015	37	50	12	3.2	156	35	0.1	71	<1	0.223	0.016	<0.1	0.07	0.2	7.3	342	547

**Well No. 153 Ord Grove #2**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/14/2015	67	100.3	20	5	3.7	63.7	0.18	130	8.96	<0.1	<0.02	<0.25	0.12	0.43		460	890

**Well No. 156 Mission Memorial**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/14/2015	42	66	12	2.9	155	48	0.2	87	10	<0.010	<0.010	0.1	0.04	0.3	7.3	392	655

**Well No. 159 Luzern #2**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/14/2015	79	118.7	22	5	3.7	71.3	0.23	154.9	15.15	<0.1	<0.02	<0.25	0.149	0.5		578	1028

**Well No. 163 Playa #3**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/15/2015	55	95.3	18	<5	3.7	92.3	0.11	123.1	27.18	<0.1	<0.02	<0.25	0.121	0.44		520	867

<0.1 = Not detected above detection limit of 0.1 mg/L --- = No analysis performed all values in mg/L unless otherwise noted

Well: 165 Sand City Corp Yard

**Well No. 165 Sand City Corp Yard**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
10/06/2015	21	372	2	4.2	212	193	6.6	363	<1	<0.010	0.05	<0.1	1.75	0.9	7.9	1086	1946
06/22/2015	34	302	6	5.1	196	186	5.5	345	10	<0.010	0.031	<0.1	1.31	0.9	7.9	1040	1834
03/24/2015	29	293	5	4.5	177	162	4.4	301	20	0.011	0.025	<0.1	1.2	0.8	7.4	960	1652
12/10/2014	30	320	5	4.8	179	150	4.5	298	18	<0.010	0.034	<0.1	1.38	1.0	7.8	948	1664

**Well No. 169 Paralta**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/14/2015	77	102.9	20	5	3.7	70.3	0.33	111.6	<2	<0.1	0.024	<0.25	0.103	0.37		502	909

**Well No. 173 Seaside Muni #4**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/20/2015	18	51	8	2.2	72	14	<0.1	69	10	0.011	<0.010	<0.1	<0.050	0.2	7.2	<10	403

**Well No. 177 Plumas #4**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/15/2015	52	137.3	25	<5	3.7	84.4	0.19	204.2	12.27	<0.1	<0.02	<0.25	0.105	0.64		580	1077

**Well No. 187 Seaside Golf - Reservoir**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)

<0.1 = Not detected above detection limit of 0.1 mg/L --- = No analysis performed all values in mg/L unless otherwise noted

Well: 187 Seaside Golf - Reservoir

07/20/2015 14 44 5 1.9 56 7 <0.1 67 3 <0.010 <0.010 <0.1 <0.05 0.2 7.7 208 342

**Well No. 196 LSRA #2**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
09/05/2014	11	91	6.4	1.8	133	13	0.21	86	<1	5.3	0.061	1.1	<0.1	0.22	6.5	315	482

**Well No. 197 LSRA #1**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/15/2015	18	97	10	2.6	115	21	0.2	143	5	0.036	0.023	0.9	0.09	0.4	6.8	435	717
09/05/2014	16	108	10	2.2	113	17	0.22	134	4	<0.1	0.051	1.1	0.11	0.3	6.4	395	626

**Well No. 203 LS Golf New #12**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/16/2015	139	152	35	5.8	294	193	0.5	244	1	1.178	0.04	0.1	0.12	0.6	6.8	988	1550

**Well No. 204 Pasadera Golf - Paddock**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/14/2015	127	120	28	4.6	295	187	0.6	193	4	0.017	0.026	0.1	0.1	0.5	7.1	927	1387

**Well No. 212 York School 2001**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)

<0.1 = Not detected above detection limit of 0.1 mg/L --- = No analysis performed all values in mg/L unless otherwise noted

Well:212 York School 2001

07/14/2015 35 165 27 4.2 78 33 0.2 324 5 0.047 <0.010 0.4 0.08 0.9 6.8 758 1250

**Well No. 213 Ryan Ranch #7**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/20/2015	99	147.2	28	6		165.3	0.63	208.5	<2	0.53	0.187	0.42	0.171	0.72		826	1366

**Well No. 216 Ryan Ranch #8**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/20/2015	63	173.6	32	<5	3.7	109.4	0.59	303.9	2.15	0.8	0.032	0.58	0.126	0.95		804	1426

**Well No. 231 Del Monte Test**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/15/2015	24	49	9	<5	3.7	15.6	0.17	59.5	<2	1.72	0.076	<0.25	<0.1	0.19		250	424

**Well No. 245.1 Sentinel MW#1 (1,140 feet)**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/29/2015	15	85	2	3.6	94	23	0.2	77	<1	2.129	0.019	<0.1			8.4		463
01/29/2015	11	79	1	2.8	96	23	0.2	80	<1	7.079	0.121	<0.1	0.09	0.2	8.1	314	472

**Well No. 245.2 Sentinel MW#1 (1,390 feet)**

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)

<0.1 = Not detected above detection limit of 0.1 mg/L      --- = No analysis performed      all values in mg/L unless otherwise noted

Well:245.2 Sentinel MW#1 (1,390 feet)

07/29/2015	22	77	3	4	99		0.2	62	<1	8.614	0.121	<0.1			8.5	291	
01/29/2015	13	91	2	3.5	104	26	0.2	113	<1	2.657	0.013	<0.1	0.1	0.3	8.5	340	585

Well No. 246.1 Sentinel MW#2 (1,000 feet)

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/29/2015	17	77	1	3.4	102	21	0.2	66	<1	0.743	<0.01	<0.1			8.4	254	426

Well No. 246.2 Sentinel MW#2 (1,470 feet)

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/29/2015	23	71	3	3.5	101	17	0.2	66	<1	8.628	0.079	<0.1			8.4	254	427

Well No. 247.1 Sentinel MW#3 (870 feet)

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/29/2015	17	64	3	4	98	15	0.1	62	<1	2.684	0.022	<0.1			7.8	243	404

Well No. 247.2 Sentinel MW#3 (1,275 feet)

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/29/2015	17	67	3	4	100	15	0.1	63	<1	1.417	0.015	<0.1			8		411

Well No. 248.1 Sentinel MW#4 (715 feet)

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)

<0.1 = Not detected above detection limit of 0.1 mg/L      --- = No analysis performed      all values in mg/L unless otherwise noted

Well:248.1 Sentinel MW#4 (715 feet)

07/29/2015	60	103	11	8	226	36	0.2	132	<1	3.003	0.045	<0.1			7.5	508	853
01/29/2015	42	96	21	16	231	37	0.3	160	<1	28.975	392	<0.1	0.11	0.3	7.5	548	904

Well No. 248.2 Sentinel MW#4 (900 feet)

	Major Cations				Major Anions					Minor Ions					Physical		
	Ca <sup>+</sup>	Na <sup>+</sup>	Mg <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	Fe <sup>2+</sup>	Mn <sup>2+</sup>	HPO <sub>4</sub> <sup>-</sup>	B	Br <sup>-</sup>	pH	TDS	EC (us/cm)
07/29/2015	78	195	20	8.9	344	40	0.2	260	<1	3.365	0.136	<0.1			7.5	791	1433
01/29/2015	76	200	18	7.9	334	42	0.4	271	<1	3.218	0.094	<0.1	0.29	0.8	7.3	791	1437

# **Appendix 2**

## **Seaside Basin Groundwater Level Monitoring Results**

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**Water Level Data: WY 2015  
as reported to the Seaside Watermaster**

Northern Coastal Monitor

Watermaster Well No: 101 MSC-Shallow

**Watermaster Well No: 101 MSC-Shallow**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	75.67	80.1	4.43	
11/06/2014	77.26	80.1	2.84	
12/09/2014	74.83	80.1	5.27	
01/20/2015	76.15	80.1	3.95	
03/04/2015	75.28	80.1	4.82	
04/29/2015	75.75	80.1	4.35	
05/22/2015	75.05	80.1	5.05	
06/22/2015	76.1	80.1	4.00	
07/29/2015	75.95	80.1	4.15	
09/29/2015	76.98	80.1	3.12	

**Watermaster Well No: 102 MSC-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	98.38	80.29	-18.09	
11/06/2014	100.04	80.29	-19.75	



Northern Coastal Monitor  
 Watermaster Well No: 102 MSC-Deep

12/09/2014	96.88	80.29	-16.59
01/20/2015	97.49	80.29	-17.20
03/04/2015	95.97	80.29	-15.68
03/24/2015	95.81	80.29	-15.52
04/29/2015	97.64	80.29	-17.35
05/22/2015	95.73	80.29	-15.44
06/22/2015	98.82	80.29	-18.53
07/29/2015	100.25	80.29	-19.96
09/29/2015	102.08	80.29	-21.79

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**Watermaster Well No: 103 PCA-W Shallow**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
03/25/2015	58.89	64.22	5.33	
06/23/2015	59.55	65.22	5.67	
09/16/2015	59.15	65.22	6.07	

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**Watermaster Well No: 104 PCA-W Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
03/25/2015	82.90	65.18	-17.72	

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Northern Coastal Monitor

Watermaster Well No: 104 PCA-W Deep

06/24/2015	84.99	65.18	-19.81
09/11/2015	84.32	65.18	-19.14

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**Watermaster Well No: 105 PCA-E Shallow**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/28/2014	62.91	68.51	5.60	
11/05/2014	63.12	68.51	5.39	
12/10/2014	65.56	68.51	2.95	
01/16/2015	65.37	68.51	3.14	
03/02/2015	62.22	68.51	6.29	
03/24/2015	62.18	68.51	6.33	
04/28/2015	62.39	68.51	6.12	
05/21/2015	62.52	68.51	5.99	
06/22/2015	62.71	68.51	5.80	
07/29/2015				gate locked
09/28/2015	63.78	68.51	4.73	

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**Watermaster Well No: 106 PCA East Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
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Northern Coastal Monitor  


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Watermaster Well No: 106 PCA East Deep

09/30/2014	89.33	65.54	-23.79
10/31/2014	88.33	65.54	-22.79
11/30/2014	86.87	65.54	-21.33
12/30/2014	84.56	65.54	-19.02
01/29/2015	84.71	65.54	-19.17
02/28/2015	83.56	65.54	-18.02
03/30/2015	85.53	65.54	-19.99
04/29/2015	86.85	65.54	-21.31
05/30/2015	84.03	65.54	-18.49
06/29/2015	88.41	65.54	-22.87
07/30/2015	90.43	65.54	-24.89
08/30/2015	89.23	65.54	-23.69
09/30/2015	91.24	65.54	-25.70

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**Watermaster Well No: 107 Ord Grove Test**

Owner: California American Water

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	349.98	294.00	-55.98	prod on
11/05/2014	348.88	294.00	-54.88	prod on
12/09/2014	332.01	294.00	-38.01	
01/16/2015	328.68	294.00	-34.68	

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Northern Coastal Monitor

Watermaster Well No: 107 Ord Grove Test

03/02/2015	345.02	294.00	-51.02	prod on
03/24/2015	341.71	294.00	-47.71	prod on
04/28/2015	344.4	294.00	-50.40	prod on
05/21/2015	323.26	294.00	-29.26	
06/22/2015	345.11	294.00	-51.11	on
07/29/2015	348.01	294.00	-54.01	on
09/28/2015	349.32	294.00	-55.32	on

**Watermaster Well No: 108 Paralta Test**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	334.50	330.72	-3.78	
11/03/2014	334.38	330.72	-3.66	
12/09/2014	333.59	330.72	-2.87	
01/20/2015	332.38	330.72	-1.66	
03/02/2015	331.45	330.72	-0.73	
03/26/2015	331.78	330.72	-1.06	
04/28/2015	341.02	330.72	-10.30	prod on
05/22/2015	332.68	330.72	-1.96	
06/22/2015	343.69	330.72	-12.97	on
07/29/2015	346.02	330.72	-15.30	on

Northern Coastal Monitor  
 Watermaster Well No: 108 Paralta Test

09/28/2015                      346.8                      330.72                      -16.08                      on

**Watermaster Well No: 109 Ord Terrace-Shallow**

Owner: MPWMD  
 Well Type: Monitor  
 Monitoring Party: MPWMD

Northern Coastal  
 Annually

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	268.99	228.65	-40.34	
11/05/2014	268.8	228.65	-40.15	
12/09/2014	264.88	228.68	-36.20	
01/16/2015	262.08	228.68	-33.40	
03/02/2015	262.22	228.68	-33.54	
03/24/2015	260.57	228.68	-31.89	
04/28/2015	262.33	228.68	-33.65	
05/21/2015	256.92	228.68	-28.24	
06/22/2015	263.92	228.68	-35.24	
07/29/2015	266.92	228.68	-38.24	
09/28/2015	268.42	228.68	-39.74	

**Watermaster Well No: 111 FO-09-Shallow**

Owner: MPWMD  
 Well Type: Monitor  
 Monitoring Party: MPWMD

Northern Coastal  
 Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	111.87	118.89	7.02	

Northern Coastal Monitor

Watermaster Well No: 111 FO-09-Shallow

11/05/2014	112.20	118.89	6.69
12/04/2014	111.7	118.89	7.19
01/16/2015	111.56	118.89	7.33
03/05/2015	111.27	118.89	7.62
04/01/2015	111.1	118.89	7.79
05/01/2015	111.4	118.89	7.49
06/01/2015	111.78	118.89	7.11
07/01/2015	112.5	118.89	6.39
08/01/2015	113	118.89	5.89
09/01/2015	113.4	118.89	5.49
10/01/2015	114	118.89	4.89

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**Watermaster Well No: 112 FO-09-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	140	118.85	-21.15	
11/05/2014	141	118.85	-22.15	
12/05/2014	137	118.85	-18.15	
01/05/2015	138.5	118.85	-19.65	
02/05/2015	138.3	118.85	-19.45	
03/05/2015	138.1	118.85	-19.25	

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Northern Coastal Monitor  


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Watermaster Well No: 112 FO-09-Deep

04/05/2015	137.8	118.85	-18.95
05/05/2015	138.4	118.85	-19.55
06/05/2015	138.8	118.85	-19.95
07/05/2015	139.5	118.85	-20.65
08/05/2015	139.8	118.85	-20.95
09/05/2015	140	118.85	-21.15
10/05/2015	140.3	118.85	-21.45

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**Watermaster Well No: 113 FO-10-Shallow**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	209.61	200.85	-8.76	
11/05/2014	209.66	200.85	-8.81	
12/10/2014	207.77	200.85	-6.92	
01/20/2015	207.49	200.85	-6.64	
03/15/2015	207.65	200.85	-6.80	
03/26/2015	208.13	200.85	-7.28	
04/28/2015	209.27	200.85	-8.42	
05/21/2015	209.98	200.85	-9.13	
06/23/2015	211.23	200.85	-10.38	
07/30/2015	211.56	200.85	-10.71	

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09/28/2015	213.01	200.85	-12.16
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**Watermaster Well No: 114 FO-10-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	208.59	201.03	-7.56	
11/05/2014	208.7	201.03	-7.67	
12/10/2014	208.48	201.03	-7.45	
01/20/2015	207.75	201.03	-6.72	
03/05/2015	207.11	201.03	-6.08	
03/26/2015	207.58	201.03	-6.55	
04/28/2015	208.58	201.03	-7.55	
05/12/2015	209.05	201.03	-8.02	
06/23/2015	210.31	201.03	-9.28	
07/30/2015	210.88	201.03	-9.85	
09/28/2015	212.27	201.03	-11.24	

**Watermaster Well No: 154 MMP monitor**

Owner: Mission Memorial Park

Well Type: Monitor

Monitoring Party: MPWMD

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	343.09	315.42	-27.67	prod on



Northern Coastal Monitor  


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Watermaster Well No: 154 MMP monitor

11/05/2014	342.92	315.42	-27.50	
12/09/2014	341.95	315.42	-26.53	
01/16/2015	338.61	315.42	-23.19	
03/02/2015	340.11	315.42	-24.69	
03/24/2015	338.94	315.42	-23.52	
04/28/2015	341.50	315.42	-26.08	
05/21/2015	345.25	315.42	-29.83	
06/22/2015	356.61	315.42	-41.19	on
07/29/2015	355.05	315.42	-39.63	on
09/28/2015	356.3	315.42	-40.88	on

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**Watermaster Well No: 231 Del Monte Test**

Owner: California American Water

Well Type: Monitor

Monitoring Party: CAW

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	30.1	32.62	2.52	
10/30/2014	30.2	32.62	2.42	
11/27/2014	30.0	32.62	2.62	
12/25/2014	30.0	32.62	2.62	
01/29/2015	29.8	32.62	2.82	
02/26/2015	32.1	32.62	0.52	
03/26/2015	30.2	32.62	2.42	

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Northern Coastal Monitor  
 Watermaster Well No: 231 Del Monte Test

04/30/2015	31.0	32.62	1.62
05/28/2015	30.1	32.62	2.52
06/25/2015	30	32.62	2.62
07/30/2015	30.1	32.62	2.52
08/27/2015	30.2	32.62	2.42
09/24/2015	30.3	32.62	2.32

**Watermaster Well No: 243 Luxton**

Owner: California American Water

Well Type: Monitor

Monitoring Party: CAW

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	103.2	89.12	-14.08	
10/30/2014	104	89.12	-14.88	
11/27/2014	103.8	89.12	-14.68	
12/25/2014	103.3	89.12	-14.18	
01/29/2015	101.8	89.12	-12.68	
02/26/2015	101.5	89.12	-12.38	
03/26/2015	102.3	89.12	-13.18	
04/30/2015	100.6	89.12	-11.48	
05/28/2015	100.3	89.12	-11.18	
06/25/2015	101.5	89.12	-12.38	
07/30/2015	101.4	89.12	-12.28	

Northern Coastal Monitor  


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Watermaster Well No: 243 Luxtor

08/27/2015	101.5	89.12	-12.38
09/24/2015	101.5	89.12	-12.38

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**Watermaster Well No: 251 CDM MW-1**

Owner: MPWMD  
Well Type: Monitor  
Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	90.03	93.53	3.50	
11/05/2014	89.52	93.53	4.01	
12/10/2014	89.43	93.53	4.10	
03/05/2015	90.05	93.53	3.48	
04/29/2015	89.98	93.53	3.55	
05/26/2015	90.19	93.53	3.34	
06/22/2015	90.57	93.53	2.96	
07/30/2015	90.37	93.53	3.16	
09/29/2015	90.43	93.53	3.10	

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**Watermaster Well No: 252 CDM MW-2**

Owner: MPWMD  
Well Type: Monitor  
Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	61.80	68.83	7.03	
11/05/2014	67.89	68.83	0.94	

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Northern Coastal Monitor  
 Watermaster Well No: 252 CDM MW-2

12/10/2014	59.62	68.83	9.21
03/05/2015	60.72	68.83	8.11
03/26/2015	60.71	68.83	8.12
04/29/2015	60.21	68.83	8.62
05/26/2015	60.41	68.83	8.42
06/22/2015	60.9	68.83	7.93
07/30/2015	60.59	68.83	8.24
09/28/2015	60.72	68.83	8.11

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**Watermaster Well No: 151 Military**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	162.6	135.8	-26.80	
10/30/2014	163.8	135.8	-28.00	
11/27/2014	162.8	135.8	-27.00	
12/25/2014	159.6	135.8	-23.80	
01/29/2015	159.3	135.8	-23.50	
02/26/2015	157.1	135.8	-21.30	
03/26/2015	157.4	135.8	-21.60	
04/30/2015	158.6	135.8	-22.80	
05/28/2015	157	135.8	-21.20	

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Northern Coastal Producer

Watermaster Well No: 151 Military

06/25/2015	158.3	135.8	-22.50
07/30/2015	163.8	135.8	-28.00
08/27/2015	163.3	135.8	-27.50
09/24/2015	165.5	135.8	-29.70

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**Watermaster Well No: 152 Target Well**

Owner: DBO Development

Well Type: Producer

Monitoring Party: MPWMD

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	60.18	44.42	-15.76	
11/06/2014	60.01	44.42	-15.59	
12/10/2014	59.90	44.42	-15.48	
01/20/2015	60.05	44.42	-15.63	
03/04/2015	59.86	44.42	-15.44	
03/24/2015	58.54	44.42	-14.12	
04/29/2015	59.90	44.42	-15.48	
05/21/2015	60.06	44.42	-15.64	
06/22/2015	61.10	44.42	-16.68	
07/29/2015	61.61	44.42	-17.19	
09/29/2015	64.2	44.42	-19.78	

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**Watermaster Well No: 153 Ord Grove #2**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	393.2	292.39	-100.81	Production Well On
10/30/2014	393.1	292.39	-100.71	Production Well On
11/27/2014	394.8	292.39	-102.41	Production Well On
12/25/2014	336.6	292.39	-44.21	
01/29/2015	378.8	292.39	-86.41	Production Well On
02/26/2015	383.1	292.39	-90.71	Production Well On
03/26/2015	344.8	292.39	-52.41	
04/30/2015	374.7	292.39	-82.31	Production Well On
05/28/2015	370.2	292.39	-77.81	Production Well On
06/25/2015	375.5	292.39	-83.11	Production Well On
07/30/2015	388.8	292.39	-96.41	Production Well On
08/27/2015	380	292.39	-87.61	Production Well On
09/24/2015	384.2	292.39	-91.81	Production Well On

**Watermaster Well No: 159 Luzern #2**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	208.6	156.99	-51.61	Well Running

Northern Coastal Producer  
 Watermaster Well No: 159 Luzern #2

10/30/2014	183.2	156.99	-26.21	
11/27/2014	187.1	156.99	-30.11	
12/25/2014	185.8	156.99	-28.81	
01/29/2015	185.8	156.99	-28.81	
02/26/2015	182.0	156.99	-25.01	
03/26/2015	182.0	156.99	-25.01	
04/30/2015	181.6	156.99	-24.61	
05/28/2015	181.3	156.99	-24.31	
06/25/2015	199.7	156.99	-42.71	Well Running
07/30/2015	188	156.99	-31.01	
08/27/2015	188	156.99	-31.01	
09/24/2015	188.3	156.99	-31.31	

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**Watermaster Well No: 162 Playa #3**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	158.1	53.02	-105.08	Well On
10/30/2014	164.0	53.02	-110.98	Well On
11/27/2014	53.7	53.02	-0.68	
12/25/2014	53.7	53.02	-0.68	
01/29/2015	52.7	53.02	0.32	

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Northern Coastal Producer  
 Watermaster Well No: 162 Playa #3

02/26/2015	54.9	53.02	-1.88	
03/26/2015	52.5	53.02	0.52	
04/30/2015	152.4	53.02	-99.38	Well On
05/28/2015	53	53.02	0.02	
06/25/2015	155.4	53.02	-102.38	Production Well On
07/30/2015	176.9	53.02	-123.88	Production Well On
08/27/2015	53.2	53.02	-0.18	
09/24/2015	54	53.02	-0.98	

**Watermaster Well No: 169 Paralta**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	349.5	324.49	-25.01	
10/30/2014	349.0	324.49	-24.51	
11/27/2014	348.8	324.49	-24.31	
12/24/2014	346.5	324.49	-22.01	
01/29/2015	346.7	324.49	-22.21	
02/26/2015		324.49		
03/26/2015	344.5	324.49	-20.01	
04/30/2015	349.2	324.49	-24.71	
05/28/2015	344.6	324.49	-20.11	



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Northern Coastal Producer

Watermaster Well No: 169 Paralta

06/25/2015	367.2	324.49	-42.71	Production Well On
07/30/2015	371.1	324.49	-46.61	Production Well On
08/27/2015	347.9	324.49	-23.41	
09/24/2015	368.9	324.49	-44.41	

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**Watermaster Well No: 171 PCA Production**

Owner: Security National Guaranty Inc

Well Type: Producer

Monitoring Party: Craig Evans

Northern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/22/2014	67.88	72.63	4.75	
10/25/2014	67.37	72.63	5.26	
11/24/2014	66.79	72.63	5.84	
12/25/2014	66.67	72.63	5.96	
01/25/2015	67.32	72.63	5.31	
02/24/2015	68.23	72.63	4.40	
03/21/2015	67.5	72.63	5.13	
04/25/2015	68.08	72.63	4.55	
05/23/2015	69.37	72.63	3.26	
06/23/2015	68.31	72.63	4.32	
07/25/2015	68.38	72.63	4.25	

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**Watermaster Well No: 173 Seaside Muni #4**

Owner: City of Seaside

Well Type: Producer

Monitoring Party: City of Seaside

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/01/2014	341.7	312.12	-29.58	
12/01/2014	341.1	312.12	-28.98	
01/01/2015	339.9	312.12	-27.78	
02/01/2015	336.8	312.12	-24.68	
03/01/2015	337.76	312.12	-25.64	
04/01/2015	336.57	312.12	-24.45	
05/01/2015	337.30	312.12	-25.18	
06/01/2015	336.42	312.12	-24.30	
07/01/2015	338.75	312.12	-26.63	

**Watermaster Well No: 174 Seaside Muni #3**

Owner: City of Seaside

Well Type: Producer

Monitoring Party: City of Seaside

Northern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	270.87	307.19	36.32	
11/01/2014	270.90	307.19	36.29	
12/01/2014	270.95	307.19	36.24	
01/01/2015	271.25	307.19	35.94	
02/01/2015	270.60	307.19	36.59	

Northern Coastal Producer  


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Watermaster Well No: 174 Seaside Muni #3

03/01/2015	270.59	307.19	36.60
04/01/2015	270.98	307.19	36.21
05/01/2015	270.51	307.19	36.68
06/01/2015	270.91	307.19	36.28
07/01/2015	270.7	307.19	36.49

**Watermaster Well No: 187 Seaside Golf - Reservoir**

Owner: City of Seaside

Well Type: Producer

Northern Coastal  
Monthly

Monitoring Party: City of Seaside

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/01/2014	391.68	417.44	25.76	
12/01/2014	391.75	417.44	25.69	
01/01/2015	391.95	417.44	25.49	
02/01/2015	391.78	417.44	25.66	
03/01/2015	391.79	417.44	25.65	
04/01/2015	391.63	417.44	25.81	
05/01/2015	391.56	417.44	25.88	
06/01/2015	415.54	417.44	1.90	Production Well On
07/01/2015	411.7	417.44	5.74	Production Well On

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**Watermaster Well No: 189 Seaside Golf - Coe**

Owner: City of Seaside

Well Type: Producer

Northern Coastal  
Monthly

Monitoring Party: City of Seaside

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	101.37	110.15	8.78	
11/01/2014	101.43	110.15	8.72	
12/01/2014	101.41	110.15	8.74	
01/01/2015	101.1	110.15	9.05	
02/01/2015	100.93	110.15	9.22	
03/01/2015	100.98	110.15	9.17	
04/01/2015	101.05	110.15	9.10	
05/01/2015	101.07	110.15	9.08	
06/01/2015	101.25	110.15	8.90	
07/01/2015	101.45	110.15	8.70	

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**Watermaster Well No: 115 FO-01-Shallow**

Owner: MPWMD

Well Type: Monitor

Northern Inland  
Quarterly

Monitoring Party: MPWMD

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	202.90	362.61	159.71	
05/08/2015	202.92	362.61	159.69	
06/16/2015	202.89	362.61	159.72	

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10/06/2015	202.98	362.61	159.63
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**Watermaster Well No: 116 FO-01-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	341.05	362.57	21.52	
05/08/2015	341.11	362.57	21.46	
06/16/2015	341.2	362.57	21.37	
10/06/2015	341.53	362.57	21.04	

**Watermaster Well No: 118 FO-07-Shallow**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Inland  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2014	453.31	470.19	16.88	
11/03/2014	453.42	470.19	16.77	
12/09/2014	453.3	470.19	16.89	
01/20/2015	453.10	470.19	17.09	
03/02/2015	452.78	470.19	17.41	
03/24/2015	453.18	470.19	17.01	
04/27/2015	453.1	470.19	17.09	
05/22/2015	453.92	470.19	16.27	

Northern Inland Monitor

Watermaster Well No: 118 FO-07-Shallow

06/26/2015	454.93	470.19	15.26
07/29/2015	455.61	470.19	14.58
09/28/2015	457.28	470.19	12.91

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**Watermaster Well No: 119 FO-07-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2014	492.98	470.15	-22.83	
11/03/2014	492.41	470.15	-22.26	
12/09/2014	491.50	470.15	-21.35	
01/20/2015	490.01	470.15	-19.86	
03/02/2015	488.89	470.15	-18.74	
03/24/2015	489.52	470.15	-19.37	
04/27/2015	492.19	470.15	-22.04	
05/22/2015	489.57	470.15	-19.42	
06/26/2015	493.02	470.15	-22.87	
07/29/2015	494.91	470.15	-24.76	
09/28/2015	495.63	470.15	-25.48	

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**Watermaster Well No: 120 FO-08-Shallow**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Inland  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2014	374.2	378.04	3.84	
11/05/2014	374.37	378.04	3.67	
11/09/2014	374.02	378.04	4.02	
01/20/2015	373.67	378.04	4.37	
03/05/2015	373.55	378.04	4.49	
03/24/2015	373.63	378.04	4.41	
04/28/2015	373.87	378.04	4.17	
05/22/2015	374.29	378.04	3.75	
06/23/2015	374.62	378.04	3.42	
07/30/2015	375.4	378.04	2.64	
09/28/2018	377.98	378.04	0.06	

**Watermaster Well No: 121 FO-08-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Inland  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2014	399.37	378.1	-21.27	
11/05/2014	399.52	378.1	-21.42	
11/09/2014	398.67	378.1	-20.57	

Northern Inland Monitor  
 Watermaster Well No: 121 FO-08-Deep

01/20/2015	396.48	378.1	-18.38
03/05/2015	396.45	378.1	-18.35
04/28/2015	399.22	378.1	-21.12
05/22/2015	396.94	378.1	-18.84
06/23/2015	400.03	378.1	-21.93
07/30/2015	402.39	378.1	-24.29
09/28/2015	402.86	378.1	-24.76

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**Watermaster Well No: 122 FO-11-Shallow**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	356.28	332.93	-23.35	
11/05/2014	356.40	332.93	-23.47	
11/10/2014	356.29	332.93	-23.36	
01/20/2015	355.01	332.93	-22.08	
03/05/2015	354.94	332.93	-22.01	
03/26/2015	354.52	332.93	-21.59	
04/28/2015	355.90	332.93	-22.97	
05/21/2015	356.49	332.93	-23.56	
06/26/2015	358.08	332.93	-25.15	
07/30/2015	359.41	332.93	-26.48	

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Northern Inland Monitor

Watermaster Well No: 122 FO-11-Shallow

09/28/2015                      359.89                      332.93                      -26.96

**Watermaster Well No: 123 FO-11-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Northern Inland  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	331.96	332.96	1.00	
11/05/2014	332.18	332.96	0.78	
11/10/2014	331.99	332.96	0.97	
01/20/2015	331.18	332.96	1.78	
03/05/2015	330.96	332.96	2.00	
03/26/2015	331.31	332.96	1.65	
04/28/2015	332.19	332.96	0.77	
05/21/2015	332.65	332.96	0.31	
06/23/2015	333.5	332.96	-0.54	
07/30/2015	334.11	332.96	-1.15	
09/28/2015	339.73	332.96	-6.77	

**Watermaster Well No: 124 Plumas Test 1990**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Southern Coastal  
Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	108.33	157.83	49.50	

Southern Coastal Monitor

Watermaster Well No: 124 Plumas Test 199C

11/05/2014	108.75	157.83	49.08	
12/09/2014	108.60	157.83	49.23	
01/16/2015	108.38	157.83	49.45	
03/04/2015	108.23	157.83	49.60	
03/25/2015	107.73	157.83	50.10	
04/28/2015	107.47	157.83	50.36	
05/21/2015	107.99	157.83	49.84	on
06/23/2015	108.1	157.83	49.73	
07/29/2015	108.61	157.83	49.22	on
09/29/2015	108.65	157.83	49.18	on

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**Watermaster Well No: 125 K-Mart**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Southern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	23.99	30.65	6.66	
11/06/2014	23.81	30.65	6.84	
12/09/2014	23.58	30.65	7.07	
01/16/2015	23.26	30.65	7.39	
03/04/2015	23.50	30.65	7.15	
05/01/2015	23.50	30.65	7.15	
06/22/2015	23.63	30.65	7.02	

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Southern Coastal Monitor  
 Watermaster Well No: 125 K-Mart

07/29/2015	23.45	30.65	7.20
09/29/2015	24.17	30.65	6.48

**Watermaster Well No: 238 CDM MW#4**

Owner: MPWMD  
 Well Type: Monitor  
 Monitoring Party: MPWMD

Southern Coastal  
 Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	14.96	18.69	3.73	
11/06/2014	14.90	18.69	3.79	
12/09/2014	14.45	18.69	4.24	
01/20/2015	14.64	18.69	4.05	
03/04/2015	14.60	18.69	4.09	
03/25/2015	14.95	18.69	3.74	
04/29/2015	14.02	18.69	4.67	
05/21/2015	14.89	18.69	3.80	
06/22/2015	15.61	18.69	3.08	
07/29/2015	14.97	18.69	3.72	
09/29/2015	14.9	18.69	3.79	

**Watermaster Well No: 239 CDM MW-3**

Owner: MPWMD  
 Well Type: Monitor  
 Monitoring Party: MPWMD

Southern Coastal  
 Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
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Southern Coastal Monitor  
 Watermaster Well No: 239 CDM MW-3

10/01/2014	31.90	33.81	1.91
11/06/2014	31.75	33.81	2.06
12/09/2014	31.15	33.81	2.66
01/02/2015	31.33	33.81	2.48
03/04/2015	31.72	33.81	2.09
03/24/2015	32.01	33.81	1.80
04/29/2015	31.32	33.81	2.49
05/21/2015	32.33	33.81	1.48
06/22/2015	33.19	33.81	0.62
07/29/2015	31.33	33.81	2.48
09/29/2015	31.88	33.81	1.93

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**Watermaster Well No: 244 Hilby MGT**

Owner: California American Water

Well Type: Monitor

Monitoring Party: CAW

Southern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	241.5	248.04	6.54	
10/30/2014	241.3	248.04	6.74	
11/27/2014	241.7	248.04	6.34	
12/25/2014	241.3	248.04	6.74	
01/29/2015	241.2	248.04	6.84	
02/26/2015	241.7	248.04	6.34	

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Southern Coastal Monitor  


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Watermaster Well No: 244 Hilby MGT

03/26/2015	241.5	248.04	6.54
04/30/2015	241.4	248.04	6.64
05/28/2015	241.7	248.04	6.34
06/25/2015	241.5	248.04	6.54
07/30/2015	241.6	248.04	6.44
08/27/2015	241.5	248.04	6.54
09/24/2015	241.4	248.04	6.64

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**Watermaster Well No: 150 Cypress Pacific Production**

Owner: King Venture

Well Type: Producer

Monitoring Party: MPWMD

Southern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	47.28	50.23	2.95	
11/06/2014	47.17	50.23	3.06	
12/09/2014	45.55	50.23	4.68	
01/20/2015	46.80	50.23	3.43	
03/24/2015		50.23		No Access
04/29/2015		50.23		No Access
05/21/2015		50.23		No Access
06/22/2015		50.23		No Access
07/29/2015		50.23		No Access
09/24/2015		50.23		No Access

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**Watermaster Well No: 165 Sand City Corp Yard**

Owner: City of Sand City

Well Type: Producer

Monitoring Party: MPWMD

Southern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	42.41	47.25	4.84	1640 us/cm
11/06/2014	42.20	47.25	5.05	
12/09/2014	42.05	47.25	5.20	
01/20/2015	41.38	47.25	5.87	
03/04/2015	42.80	47.25	4.45	1900 us/cm
03/24/2015	42.44	47.25	4.81	
04/29/2015	42.09	47.25	5.16	
05/21/2015	42.33	47.25	4.92	
06/22/2015	42.62	47.25	4.63	
07/29/2015	42.42	47.25	4.83	
09/29/2015	42.42	47.25	4.83	

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**Watermaster Well No: 167 Design Ctr.**

Owner: City of Sand City

Well Type: Producer

Monitoring Party: MPWMD

Southern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	14.04	21.31	7.27	
11/06/2014	13.91	21.31	7.40	

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Southern Coastal Producer  


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Watermaster Well No: 167 Design Ctr

12/09/2014	13.67	21.31	7.64
03/04/2015	13.61	21.31	7.70
03/24/2015	14.10	21.31	7.21
04/29/2015	14.31	21.31	7.00
05/21/2015	14.28	21.31	7.03
06/22/2015	14.25	21.31	7.06
07/29/2015	14.46	21.31	6.85
09/29/2015	14.67	21.31	6.64

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**Watermaster Well No: 177 Plumas #4**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Southern Coastal  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	179.1	161.48	-17.62	Well Running
10/30/2014	230.2	161.48	-68.72	Well Running
11/27/2014	114.6	161.48	46.88	
12/25/2014	115.3	161.48	46.18	
01/29/2015	113.8	161.48	47.68	
02/26/2015	113.4	161.48	48.08	
03/26/2015	111.9	161.48	49.58	
04/30/2015	112.4	161.48	49.08	
05/28/2015	113.8	161.48	47.68	

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Southern Coastal Producer  
 Watermaster Well No: 177 Plumas #4

06/25/2015	224.2	161.48	-62.72	Production Well On
07/30/2015	229.1	161.48	-67.62	Production Well On
08/27/2015	114.5	161.48	46.98	
09/24/2015	221.8	161.48	-60.32	

**Watermaster Well No: 127 FO-03-Deep**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	637.33	774.74	137.41	
05/11/2015	637.40	774.74	137.34	
06/15/2015	637.4	774.74	137.34	
10/02/2015	637.43	774.74	137.31	

**Watermaster Well No: 129 FO-04-Shallow (E)**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	113.38	168.23	54.85	
11/03/2014	114.02	168.23	54.21	
12/10/2014	113.00	168.23	55.23	
01/16/2015	113.12	168.23	55.11	
03/05/2015	112.77	168.23	55.46	



Southern Inland Monitor

Watermaster Well No: 129 FO-04-Shallow (E)

03/26/2015	112.28	168.23	55.95
04/29/2015	112.29	168.23	55.94
05/21/2015	113.19	168.23	55.04
06/23/2015	112.96	168.23	55.27
07/30/2015	114.02	168.23	54.21
10/02/2015	113.60	168.23	54.63

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**Watermaster Well No: 130 FO-04-Deep (W)**

Owner: MPWMD

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	113.89	167.44	53.55	
11/03/2014	114.39	167.44	53.05	
12/10/2014	113.80	167.44	53.64	
01/16/2015	114.08	167.44	53.36	
03/05/2015	113.71	167.44	53.73	
03/26/2015	113.46	167.44	53.98	
04/29/2015	113.303	167.44	54.14	
05/21/2015	113.67	167.44	53.77	
06/26/2015	113.75	167.44	53.69	
07/30/2015	114.32	167.44	53.12	
10/02/2015	113.95	167.44	53.49	

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**Watermaster Well No: 131 FO-05-Shallow**

Owner: MPWMD

Well Type: Monitor

Southern Inland  
Quarterly

Monitoring Party: MPWMD

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	246.01	478.97	232.96	
05/12/2015	246.27	478.97	232.70	
06/15/2015	247.3	478.97	231.67	
10/02/2015	249.27	478.97	229.70	

**Watermaster Well No: 132 FO-05-Deep**

Owner: MPWMD

Well Type: Monitor

Southern Inland  
Quarterly

Monitoring Party: MPWMD

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	315.83	479.29	163.46	
05/12/2015	317.78	479.29	161.51	
06/15/2015	318.4	479.29	160.89	
10/02/2015	320.35	479.29	158.94	

**Watermaster Well No: 133 FO-06-Shallow**

Owner: MPWMD

Well Type: Monitor

Southern Inland  
Quarterly

Monitoring Party: MPWMD

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	235.41	470.13	234.72	
05/12/2015	235.57	470.13	234.56	

Southern Inland Monitor  
 Watermaster Well No: 133 FO-06-Shallow

06/15/2015	235.67	470.13	234.46
12/02/2015	236.68	470.13	233.45

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**Watermaster Well No: 134 FO-06-Deep**

Owner: MPWMD  
 Well Type: Monitor  
 Monitoring Party: MPWMD

Southern Inland  
 Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	232.24	470.63	238.39	
05/12/2015	233.68	470.62	236.94	
06/15/2015	234.27	470.62	236.35	
10/02/2015	236.6	470.62	234.02	

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**Watermaster Well No: 135 Justin Court**

Owner: California American Water  
 Well Type: Monitor  
 Monitoring Party: MPWMD

Southern Inland  
 Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	142.96	240.28	97.32	
05/02/2015	143.08	240.28	97.20	
06/15/2015	143.04	240.28	97.24	
10/06/2015	143.32	240.28	96.96	

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**Watermaster Well No: 136 LS Pistol Range**

Owner: County of Monterey

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	287.21	514.39	227.18	
05/11/2015	287.48	514.39	226.91	
06/15/2015	287.47	514.39	226.92	
10/02/2015	289.52	514.39	224.87	

**Watermaster Well No: 137 York Rd-West**

Owner: County of Monterey

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	320.29	490.28	169.99	
05/08/2015	320.15	490.28	170.13	
06/15/2015	320.92	490.28	169.36	
10/02/2015	322.42	490.28	167.86	

**Watermaster Well No: 138 Seca Place**

Owner: County of Monterey

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	264.01	427.58	163.57	
05/11/2015	265.88	427.58	161.70	

Southern Inland Monitor

Watermaster Well No: 138 Seca Place

06/15/2015	266.62	427.58	160.96
10/02/2015	270.2	427.58	157.38

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**Watermaster Well No: 139 Robley Shallow (North)**

Owner: County of Monterey

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	322.17	566.54	244.37	
05/11/2015	320.8	566.54	245.74	
06/29/2015	320.9	566.54	245.64	
10/06/2015	321.38	566.54	245.16	

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**Watermaster Well No: 140 Robley Deep (South)**

Owner: County of Monterey

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	391.40	566.44	175.04	
05/11/2015	393.6	566.44	172.84	
06/29/2015	395.4	566.44	171.04	
10/06/2015	396.61	566.44	169.83	

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**Watermaster Well No: 141 LS Driving Range**

Owner: County of Monterey

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/21/2015	345.63	488.34	142.71	
05/08/2015	345.33	488.34	143.01	
06/15/2015	345.79	488.34	142.55	
09/18/2015	350.69	488.34	137.65	

**Watermaster Well No: 142 LS No. 1 Subdivision**

Owner: Laguna Seca Resorts

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	136.47	277.13	140.66	
05/08/2015	136.55	277.13	140.58	
06/15/2015	136.71	277.13	140.42	
10/02/2015	137.87	277.13	139.26	

**Watermaster Well No: 143 Blue Larkspur-East End**

Owner: Laguna Seca Resorts

Well Type: Monitor

Monitoring Party: MPWMD

Southern Inland  
Quarterly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	113.25	253.29	140.04	
05/08/2015	113.32	253.29	139.97	

Southern Inland Monitor

Watermaster Well No: 143 Blue Larkspur-East Enc

06/15/2015	113.53	253.29	139.76
10/02/2015	114.7	253.29	138.59

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**Watermaster Well No: 242 CalAm Granite Construction**

Owner: California American Water

Well Type: Monitor

Southern Inland  
Quarterly

Monitoring Party: MPWMD

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
01/26/2015	134.98	226.43	91.45	
05/08/2015	135.12	226.43	91.31	
06/15/2015	135.02	226.43	91.41	

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**Watermaster Well No: 144 LS Golf Old #12**

Owner: Laguna Seca Resorts

Well Type: Producer

Southern Inland  
Monthly

Monitoring Party: LSGR

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2014	235.5	368.02	132.52	
11/01/2014	229.6	368.02	138.42	
12/01/2014	226.4	368.02	141.62	
01/01/2015	223.9	368.02	144.12	
02/01/2015	226	368.02	142.02	
03/01/2015	228.4	368.02	139.62	
07/01/2015	236	368.02	132.02	
08/01/2015	236	368.02	132.02	

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Southern Inland Producer

Watermaster Well No: 144 LS Golf Old #12

09/01/2015                      236.1                      368.02                      131.92

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**Watermaster Well No: 196 LSRA #2**

Owner: Monterey County Parks Department

Well Type: Producer

Monitoring Party: MCPD

Southern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
04/01/2015	178	390.9	212.90	
05/01/2015	180	390.9	210.90	
06/01/2015	197	390.9	193.90	
07/01/2015	208	390.9	182.90	
08/01/2015	182	390.9	208.90	
09/01/2015	208	390.9	182.90	

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**Watermaster Well No: 204 Pasadera Golf - Paddock**

Owner: Pasadera Country Club, LLC

Well Type: Producer

Monitoring Party: Pasadera

Southern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
03/22/2015	214.1	359.69	145.59	
06/24/2015	217.5	359.69	142.19	
10/26/2015	220	359.69	139.69	

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**Watermaster Well No: 208 Pasadera Golf - Main Gate**

Owner: Pasadera Country Club, LLC

Well Type: Producer

Southern Inland  
Monthly

Monitoring Party: Pasadera

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
04/10/2015	214.9	345.42	130.52	
06/23/2015	221.5	345.42	123.92	
10/26/2015	220.7	345.42	124.72	

**Watermaster Well No: 209 Bishop #1 (west)**

Owner: California American Water

Well Type: Producer

Southern Inland  
Monthly

Monitoring Party: CAW

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	342	398.81	56.81	Well Running
10/30/2014	264	398.81	134.81	
11/27/2014	260	398.81	138.81	
12/25/2014	262	398.81	136.81	
01/29/2015	262	398.81	136.81	
02/26/2015	254	398.81	144.81	
03/26/2015	259	398.81	139.81	
04/30/2015	256	398.81	142.81	
05/28/2015	259	398.81	139.81	
06/25/2015	260	398.81	138.81	
07/30/2015	261	398.81	137.81	

Southern Inland Producer

Watermaster Well No: 209 Bishop #1 (west)

08/27/2015	265	398.81	133.81
09/24/2015	264	398.81	134.81

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**Watermaster Well No: 212 York School 2001**

Owner: York School

Well Type: Producer

Monitoring Party: MPWMD

Southern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/29/2014	242.16	384.3	142.14	
11/03/2014	239.46	384.3	144.84	
12/09/2014	220.83	384.3	163.47	
01/20/2015	220.79	384.3	163.51	
03/05/2015	220.60	384.3	163.70	
03/24/2015	221.76	384.3	162.54	
05/01/2015	223.05	384.3	161.25	
05/26/2015	239.57	384.3	144.73	
06/23/2015	225.47	384.3	158.83	
07/29/2015	223.71	384.3	160.59	
10/01/2015	225.09	384.3	159.21	

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**Watermaster Well No: 213 Ryan Ranch #7**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Southern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
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Southern Inland Producer  
 Watermaster Well No: 213 Ryan Ranch #7

09/25/2014	346	294	-52.00	Well Running
10/30/2014	344	294	-50.00	
11/27/2014	375	294	-81.00	
12/25/2014	182	294	112.00	Non Consistent Data - JL
01/29/2015	367	294	-73.00	Well Running
02/26/2015	366	294	-72.00	Well Running
03/26/2015	372	294	-78.00	Well Running
04/30/2015	424	294	-130.00	Well Running
05/28/2015	373	294	-79.00	Production Well On
06/25/2015	418	294	-124.00	Production Well On
07/30/2015	378	294	-84.00	Production Well On
08/27/2015	385	294	-91.00	Production Well On
09/24/2015	386	294	-92.00	Production Well On

**Watermaster Well No: 215 Ryan Ranch #11**

Owner: California American Water  
 Well Type: Producer  
 Monitoring Party: CAW

Southern Inland  
 Monthly

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	176	307.59	131.59	
10/30/2014	186	307.59	121.59	
11/27/2014	189	307.59	118.59	
12/25/2014	180	307.59	127.59	

Southern Inland Producer

Watermaster Well No: 215 Ryan Ranch #1\*

01/29/2015	192	307.59	115.59
02/26/2015	192	307.59	115.59
03/26/2015	192	307.59	115.59
04/30/2015	191	307.59	116.59
05/28/2015	193	307.59	114.59
06/25/2015	193	307.59	114.59
07/30/2015	194	307.59	113.59
08/27/2015	196	307.59	111.59
09/24/2015	196	307.59	111.59

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**Watermaster Well No: 216 Ryan Ranch #8**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Southern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	196	306.86	110.86	
10/30/2014	195	306.86	111.86	
11/27/2014	196	306.86	110.86	
12/25/2014	184	306.86	122.86	
01/29/2015	192	306.86	114.86	
02/26/2015	193	306.86	113.86	
03/26/2015	193	306.86	113.86	
04/30/2015	193	306.86	113.86	

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Southern Inland Producer

Watermaster Well No: 216 Ryan Ranch #8

05/28/2015	195	306.86	111.86
06/25/2015	196	306.86	110.86
07/30/2015	196	306.86	110.86
08/27/2015	198	306.86	108.86
09/24/2015	199	306.86	107.86

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**Watermaster Well No: 226 Bay Ridge**

Owner: California American Water

Well Type: Producer

Monitoring Party: CAW

Southern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2014	443	545.92	102.92	Well Running
10/30/2014	444	545.92	101.92	Well Running
11/27/2014	380	545.92	165.92	
12/25/2014	375	545.92	170.92	
01/29/2015	442	545.92	103.92	Well Running
02/26/2015	376	545.92	169.92	
03/26/2015	375	545.92	170.92	
04/30/2015	375	545.92	170.92	
05/25/2015	380	545.92	165.92	
06/25/2015	377	545.92	168.92	
07/30/2015	440	545.92	105.92	Production Well On
08/27/2015	436	545.92	109.92	Production Well On

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09/04/2015                      383                      545.92                      162.92

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**Watermaster Well No: 262 Bishop #3**

Owner: CAW

Well Type: Producer

Southern Inland  
Monthly

Monitoring Party:

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	272	420.58	148.58	
10/30/2014	273	420.58	147.58	
11/27/2014	371	420.58	49.58	Well Running
12/25/2014	267	420.58	153.58	
01/29/2015	266	420.58	154.58	
02/26/2015	346	420.58	74.58	Well Running
03/26/2015	265	420.58	155.58	
04/30/2015	267	420.58	153.58	
05/28/2015	265	420.58	155.58	
06/25/2015	364	420.58	56.58	Production Well On
07/30/2015	364	420.58	56.58	Production Well On
08/27/2015	368	420.58	52.58	Production Well On
09/24/2015	370	420.58	50.58	Production Well On

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**Watermaster Well No: 303 Toro #3**

Owner: Cal-Am

Well Type: Producer

Monitoring Party: Cal-Am

Southern Inland  
Monthly

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Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2014	209	449	240.00	
10/30/2014	209.5	449	239.50	
11/27/2014	209	449	240.00	
12/25/2014	205	449	244.00	
01/29/2015	205	449	244.00	
02/26/2015	205	449	244.00	
03/26/2015	206	449	243.00	
04/30/2015	205	449	244.00	

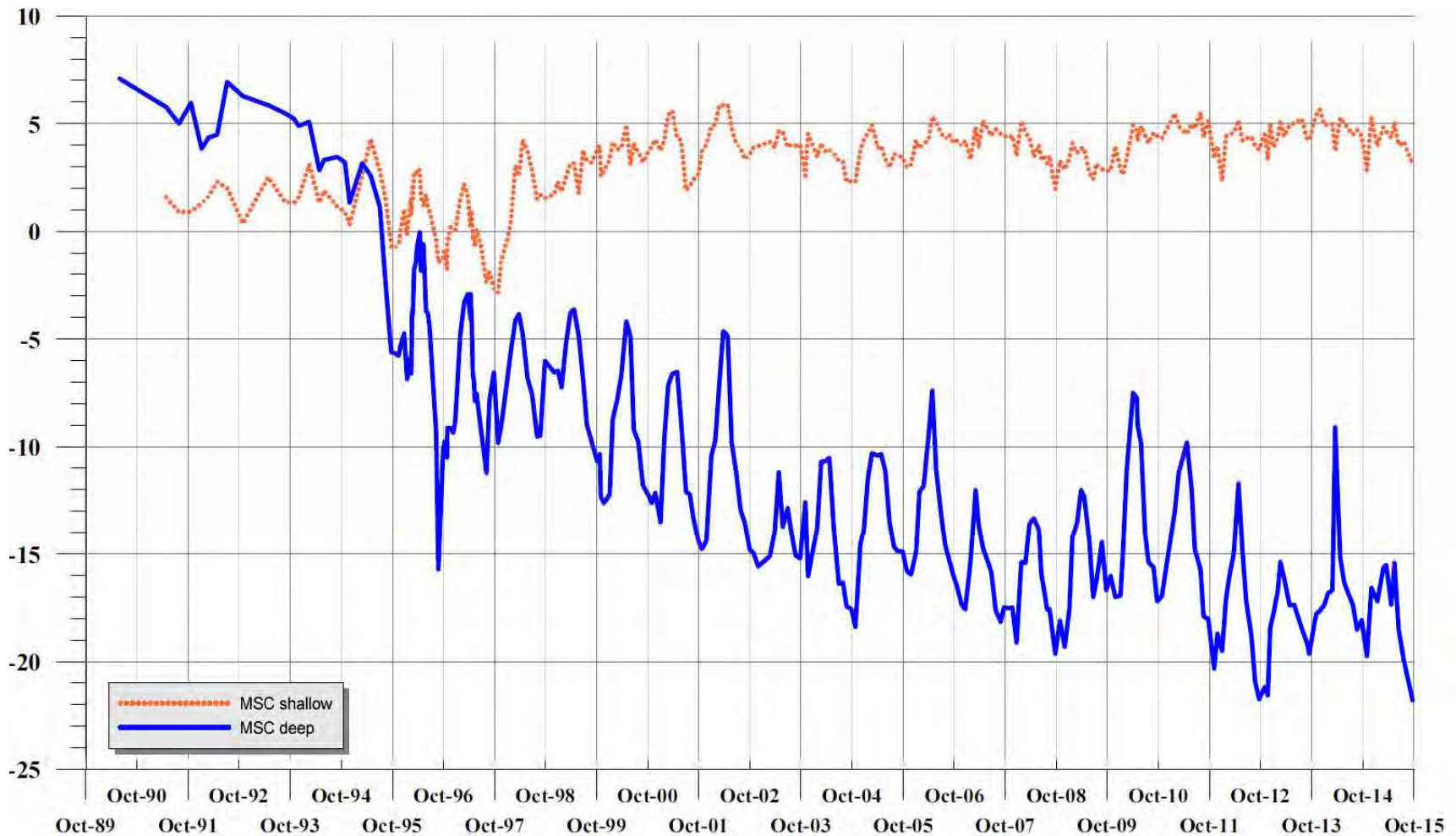
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# **Appendix 3**

## **Selected Hydrographs**

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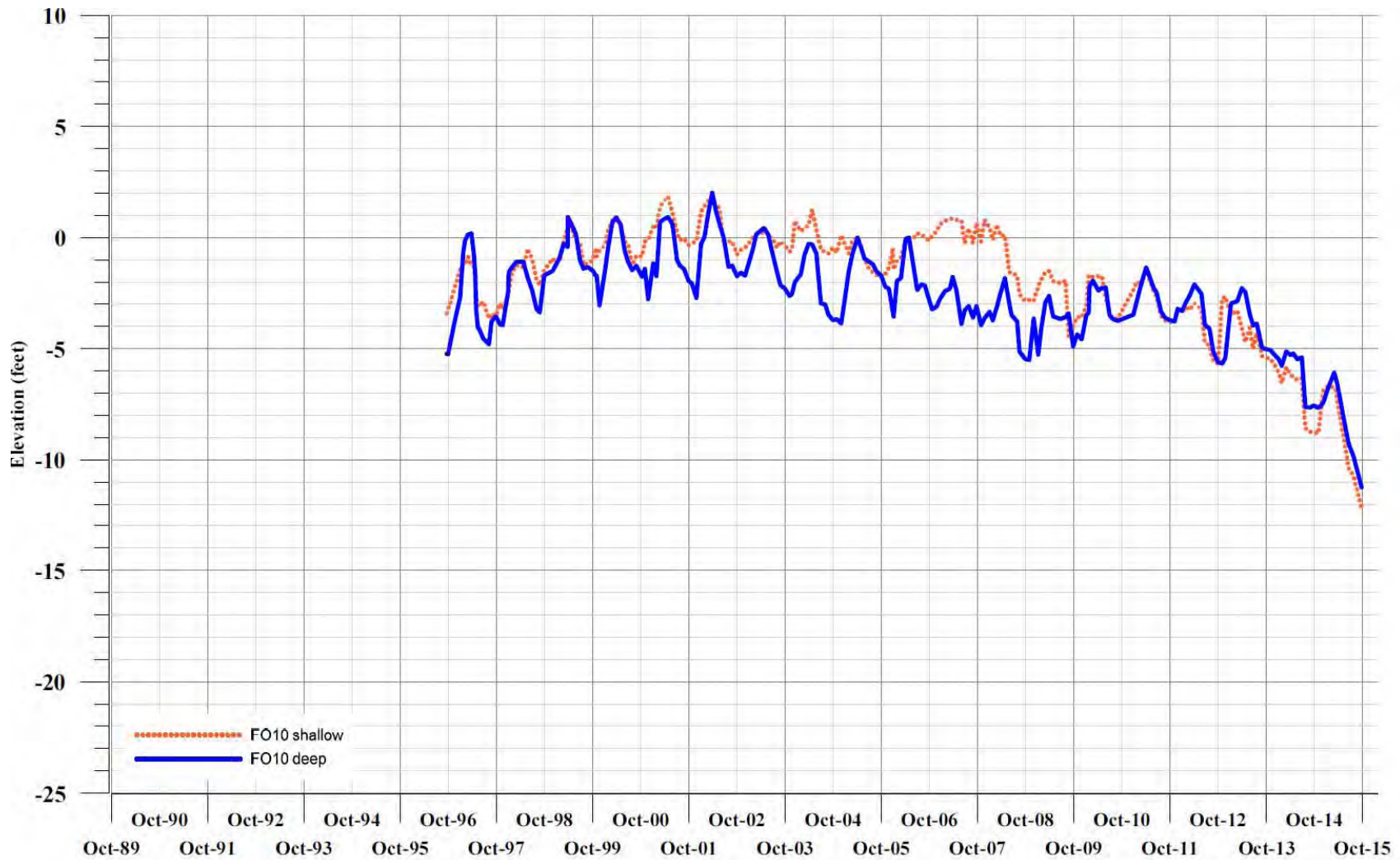


**MSC-Shallow (15S/1E-15N3)**

Screened from 490-680 in the Paso Robles Formation (QTp)  
 Wellhead Elevation 80.1 MSL  
 DWR Driller Log No. 338413

**MSC-Deep (15S/1E-15N2)**

Screened from 810-850 in the Santa Margarita Formation (Tsm)  
 Wellhead Elevation 80.29 MSL  
 DWR Driller Log No. 338425  
 Datasource: MPWMD

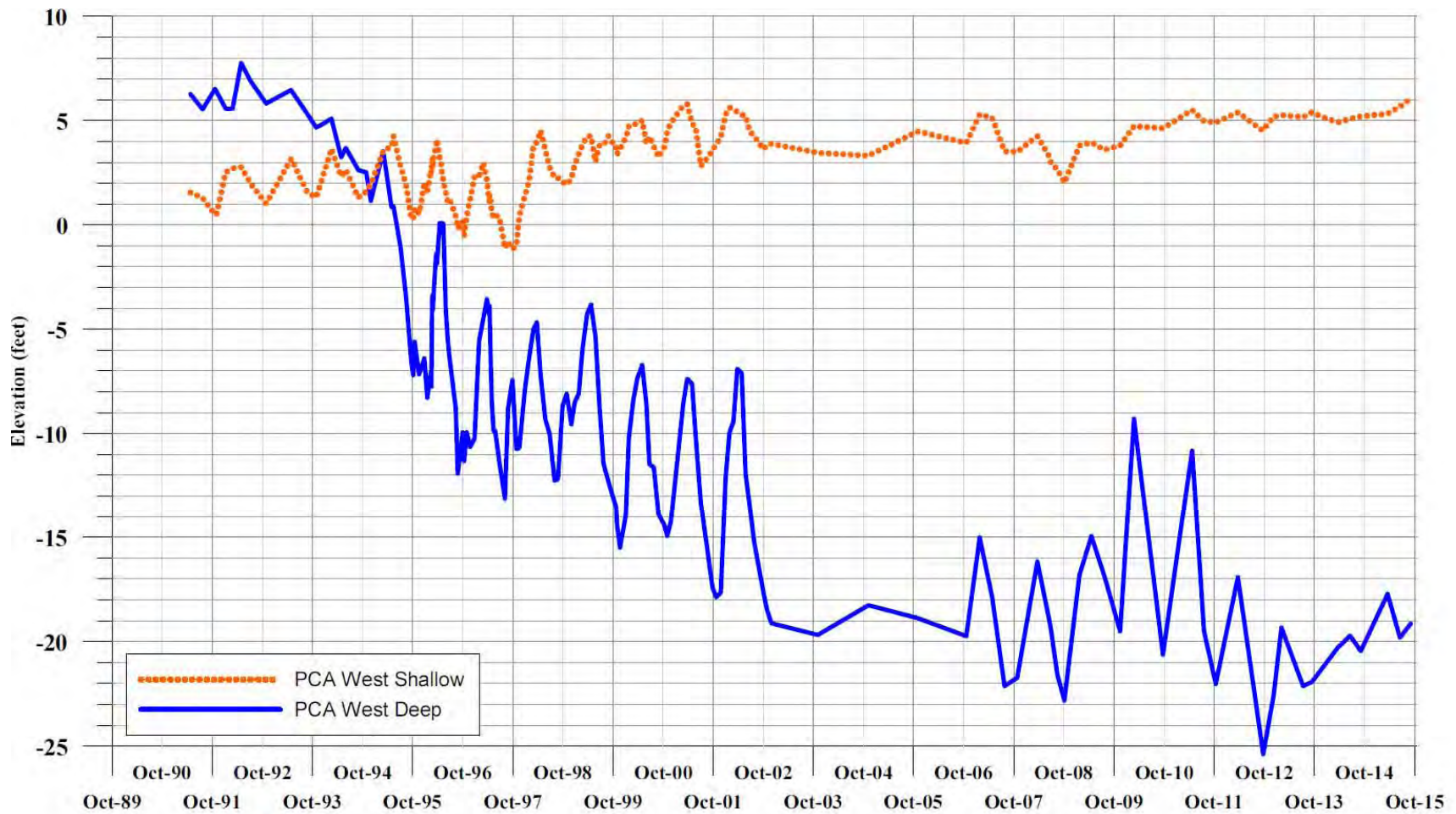


**FO-10 (Shallow) (15S/1E-11Fa)**

Screened from 480-500 in the Paso Robles (Q1p)  
Wellhead Elevation 200.85 MSL  
DWR Driller Log No. N/A  
Datasource: MPWMD

**FO-10 (Deep) (15S/1E-15Fc)**

Screened from 790-830 in the Santa Margarita Formation (Tsm)  
Wellhead Elevation 201.03 MSL  
DWR Driller Log No. N/A  
Datasource: MPWMD

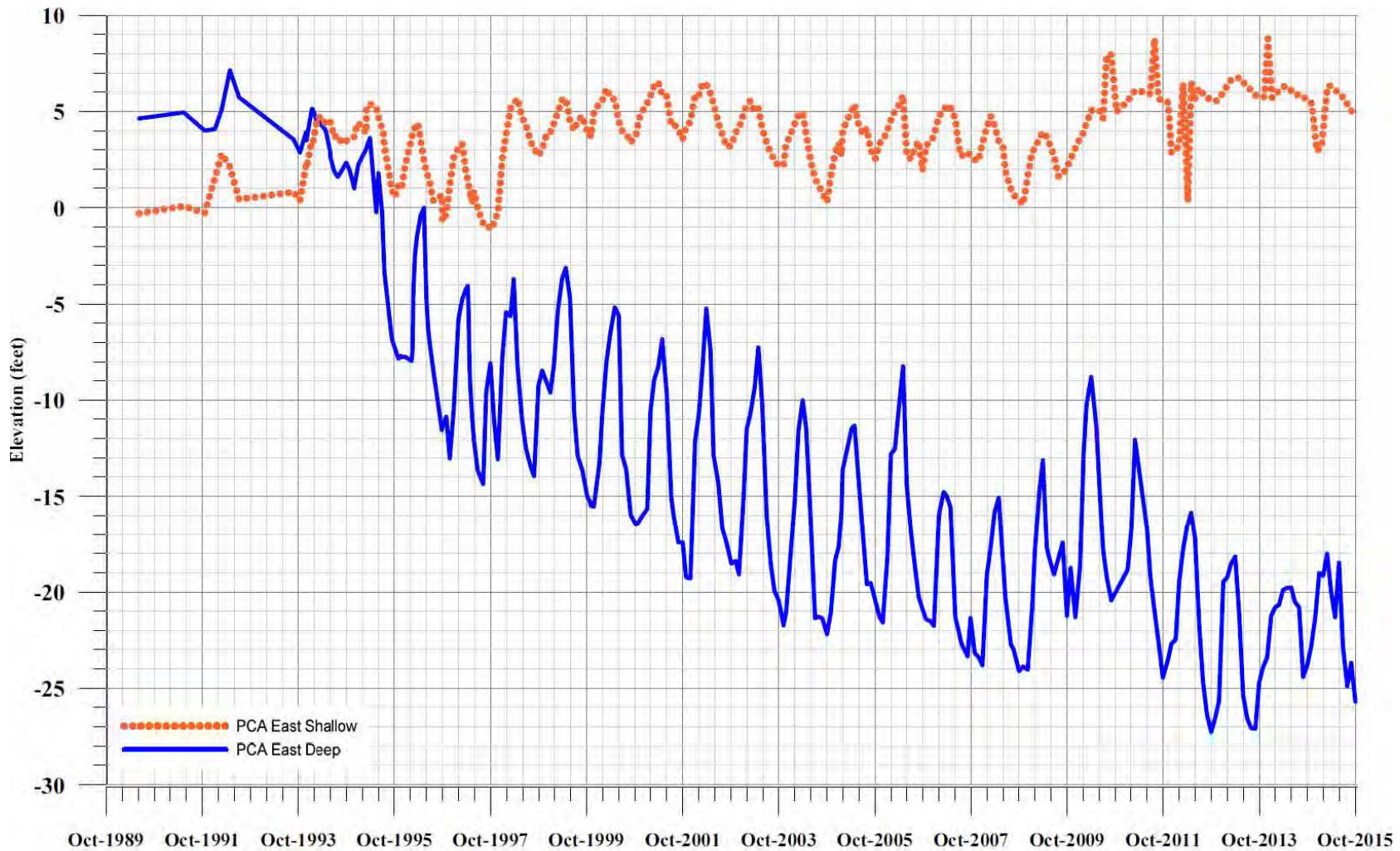


**PCA West (Deep) (15S/1E-15F2)**

Screened from 825-875 in the Santa Margarita Sandstone (Tsm)  
 Wellhead Elevation 65.18 MSL  
 DWR Driller Log No. 338401  
 Datasource: MPWMD

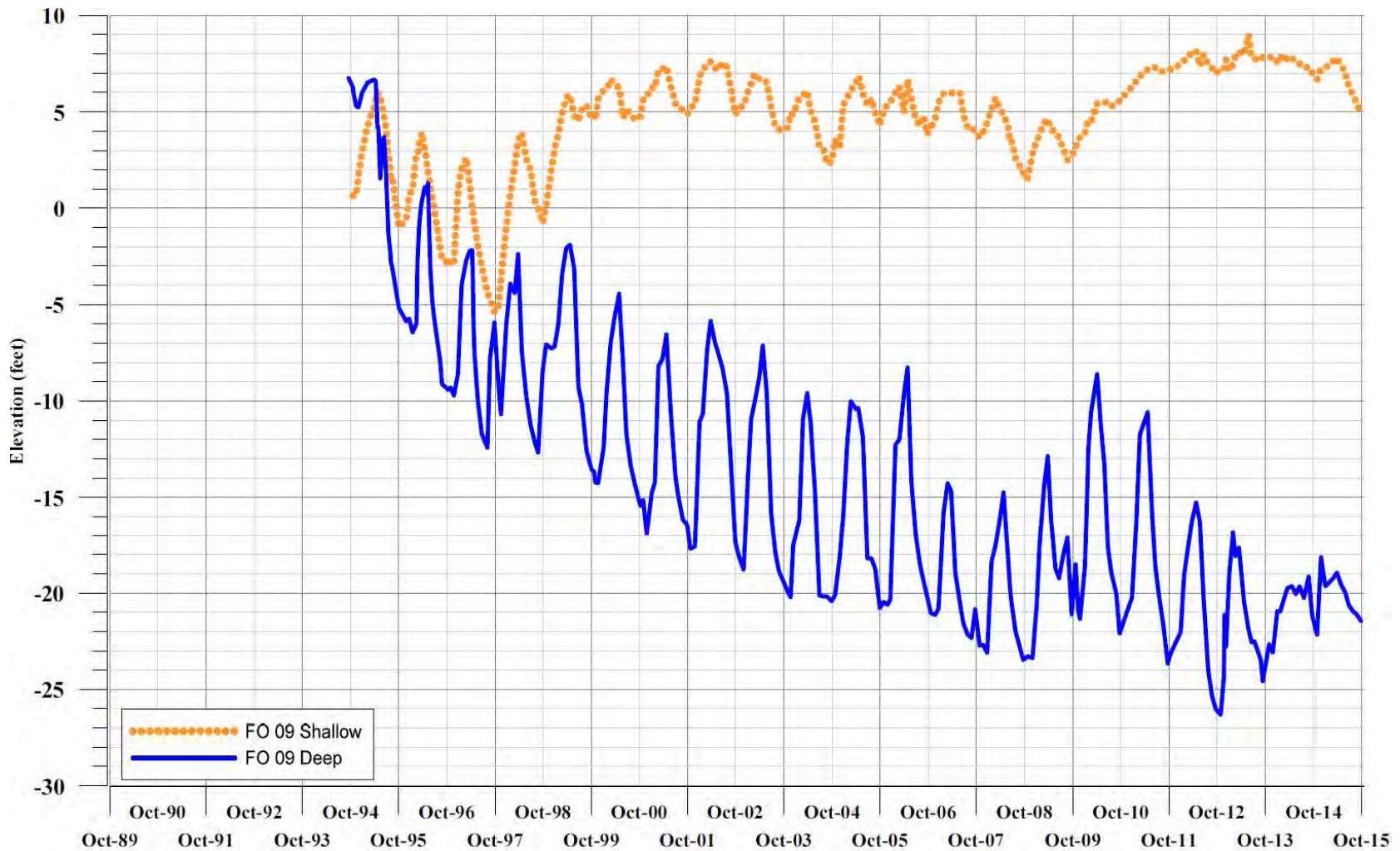
**PCA West (Shallow) (15S/1E-15F1)**

Screened from 525-575 in the Paso Robles Formation (QTp)  
 Wellhead Elevation 64.22 MSL  
 DWR Driller Log No. 338400  
 Datasource: MPWMD



**PCA East (Deep) (15S/1E-15K4)**  
 Screened from 650-700 (Tsm)  
 Wellhead Elevation 68.54 MSL  
 DWR Driller Log No. 338402  
 Datasource: MPWMD

**PCA East (Shallow) (15S/1E-15K5)**  
 Screened from 350-400 (QTp)  
 Wellhead Elevation 68.51 MSL  
 DWR Driller Log No. 338402  
 Datasource: MPWMD

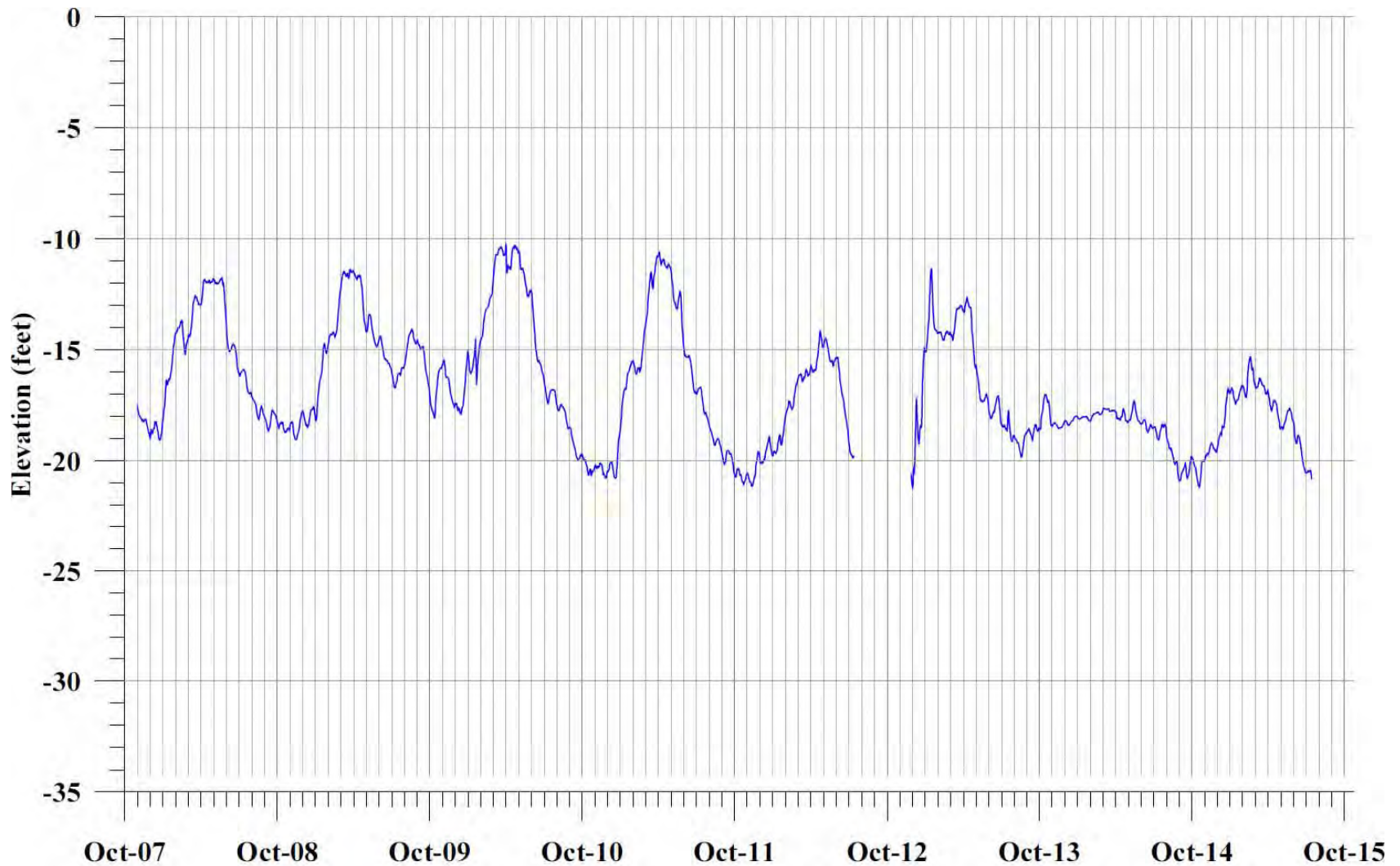


**FO-09 (shallow) (15S/1E-11Pa)**

Screened from 610-650 in the Paso Robles (QTp)  
Wellhead Elevation 118.89 MSL  
DWR Driller Log No. N/A  
Datasource: MPWMD

**FO-09 (Deep) (15S/1E-11Pb)**

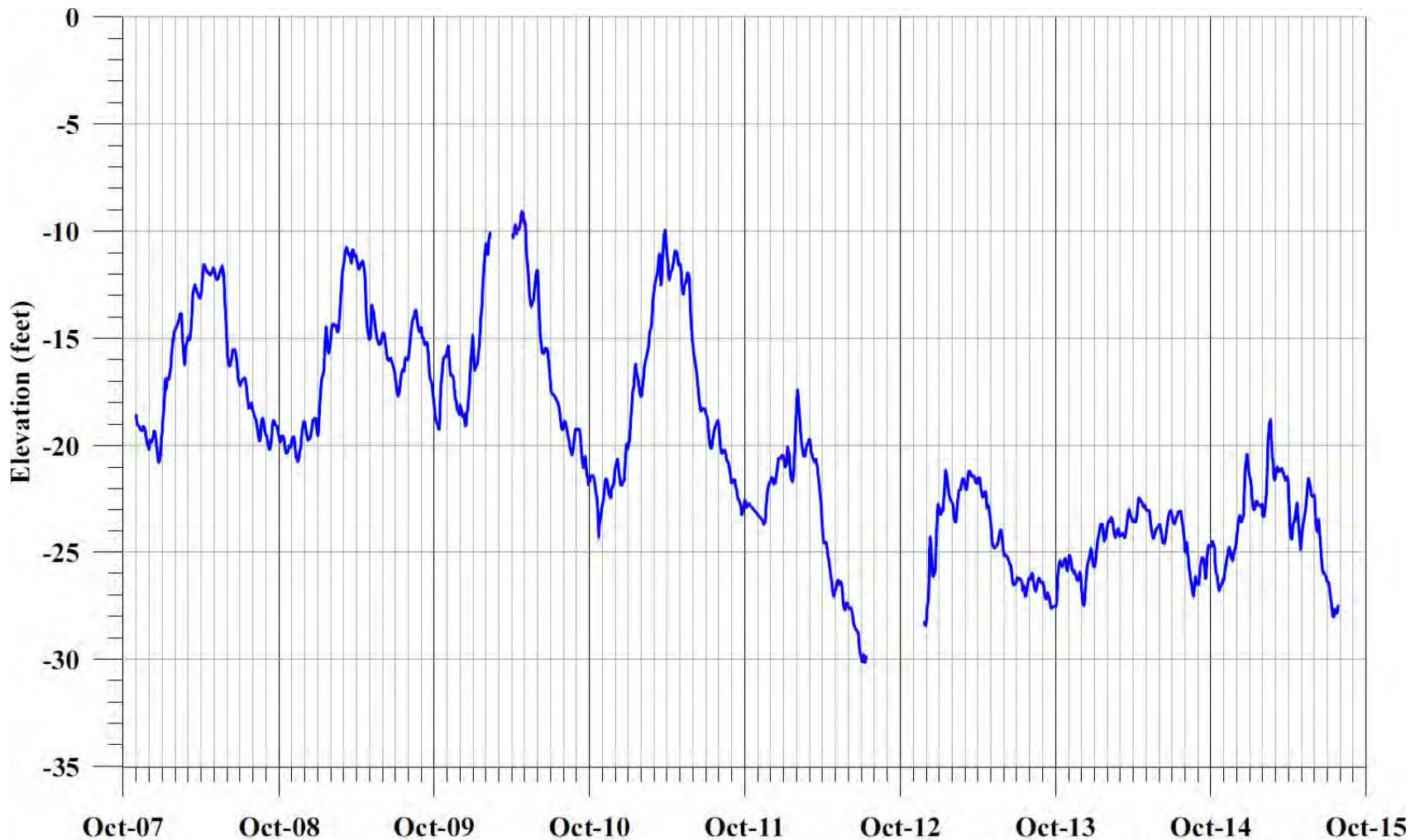
Screened from 790-830 in the Santa Margarita Formation (Tsm)  
Wellhead Elevation 188.85 MSL  
DWR Driller Log No. N/A  
Datasource: MPWMD



### Sentinel Well No. 1 Hydrograph

Continuous water level on reported by tidal days

Screen intervals (feet below ground) : 1130-1150,  
 1210-1230, 1290-1310, 1380-1400, 1470-1490  
 Total Depth: 1500 feet

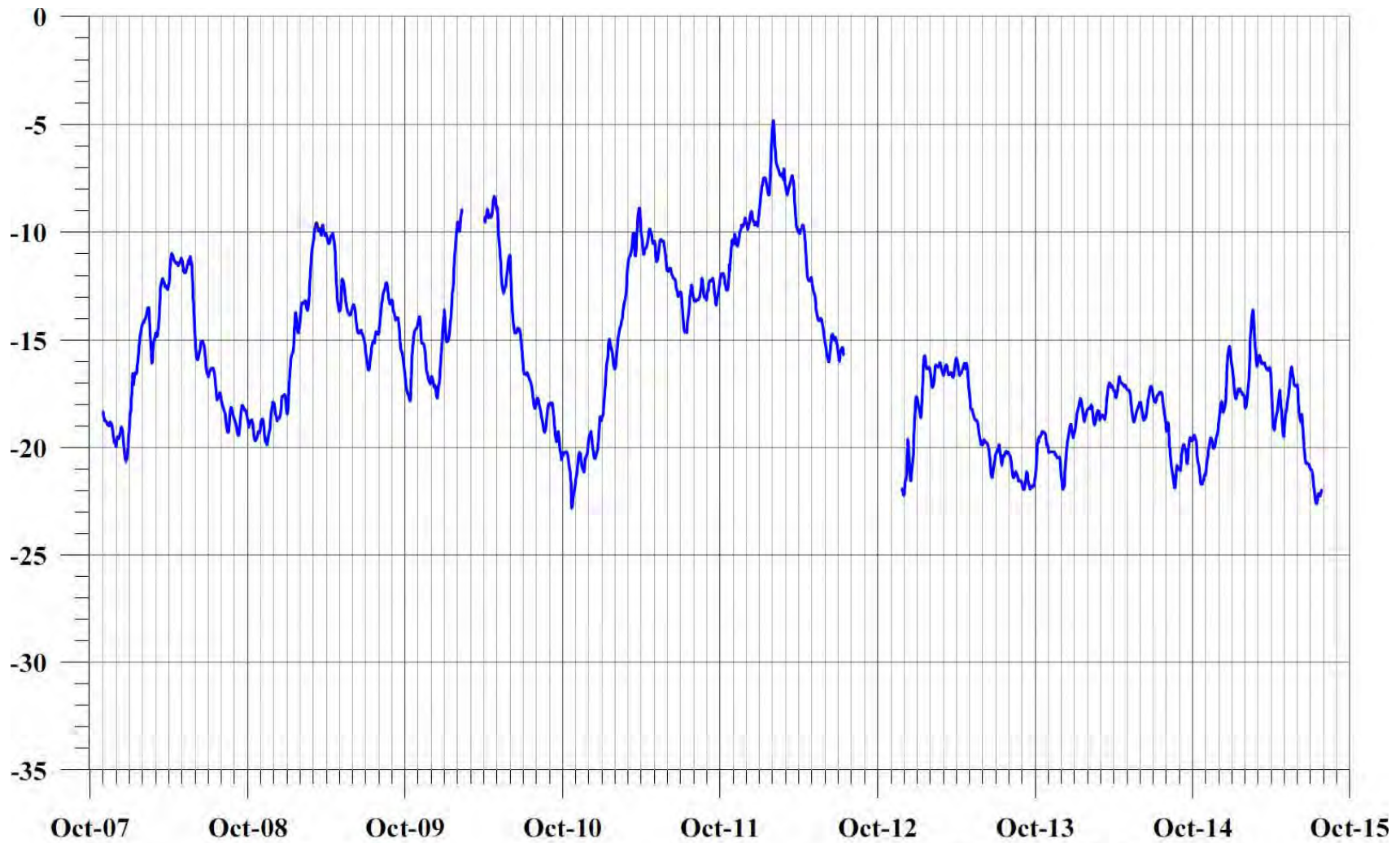


## Sentinel Well No. 2 Hydrograph

Continuous water level reported by tidal days

Screen intervals (feet below ground) : 990-1010, 1070-1090,  
 1140-1160, 1230-1250, 1370-1390, 1460-1480

Total Depth: 1500 feet

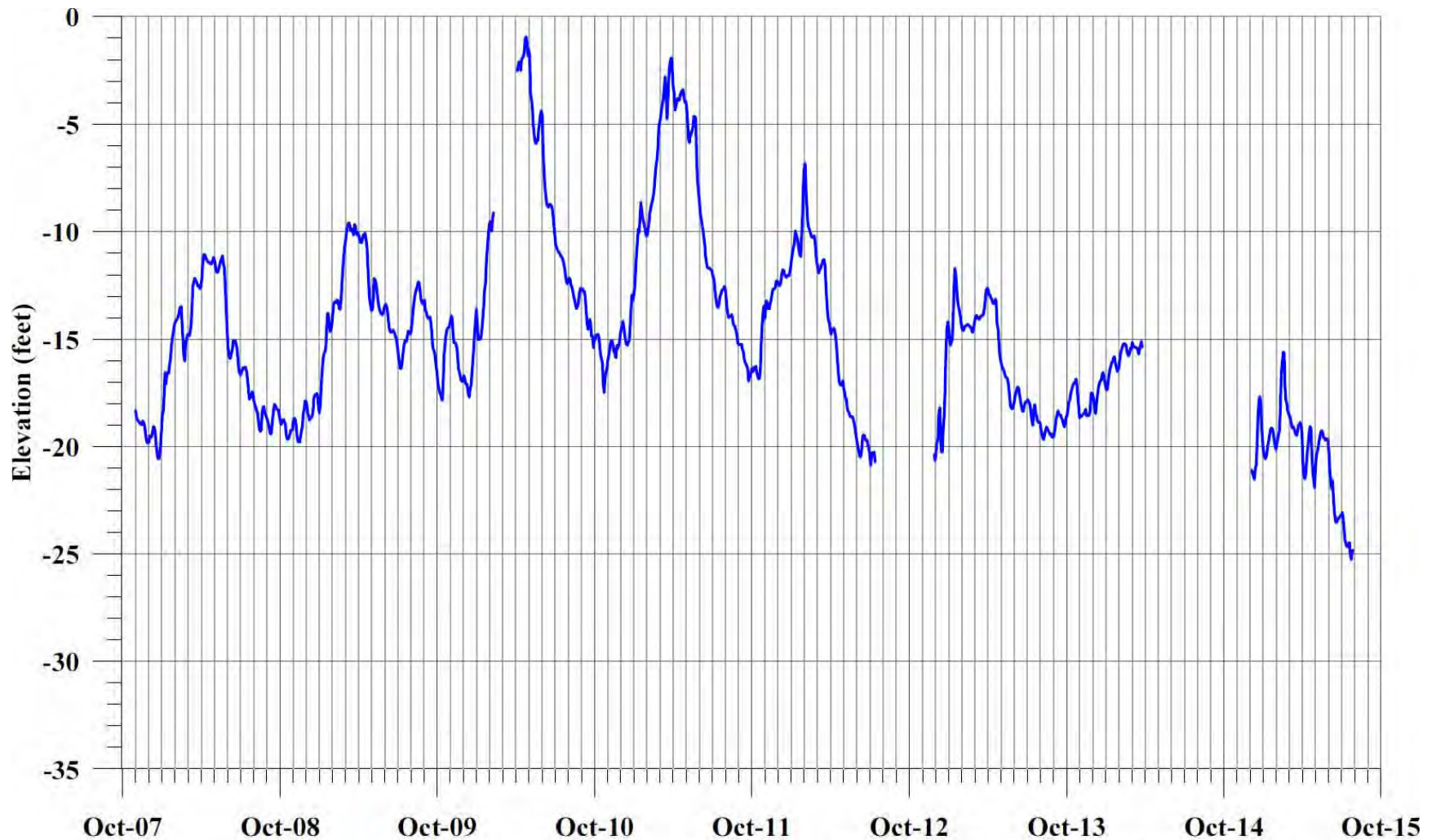


### Sentinel Well No. 3 Hydrograph

Continuous water level reported by tidal days

Screen intervals (feet below ground) : 860-880, 970-990,  
 1060-1080, 1200-1220, 1270-1290  
 Total Depth: 1310 feet



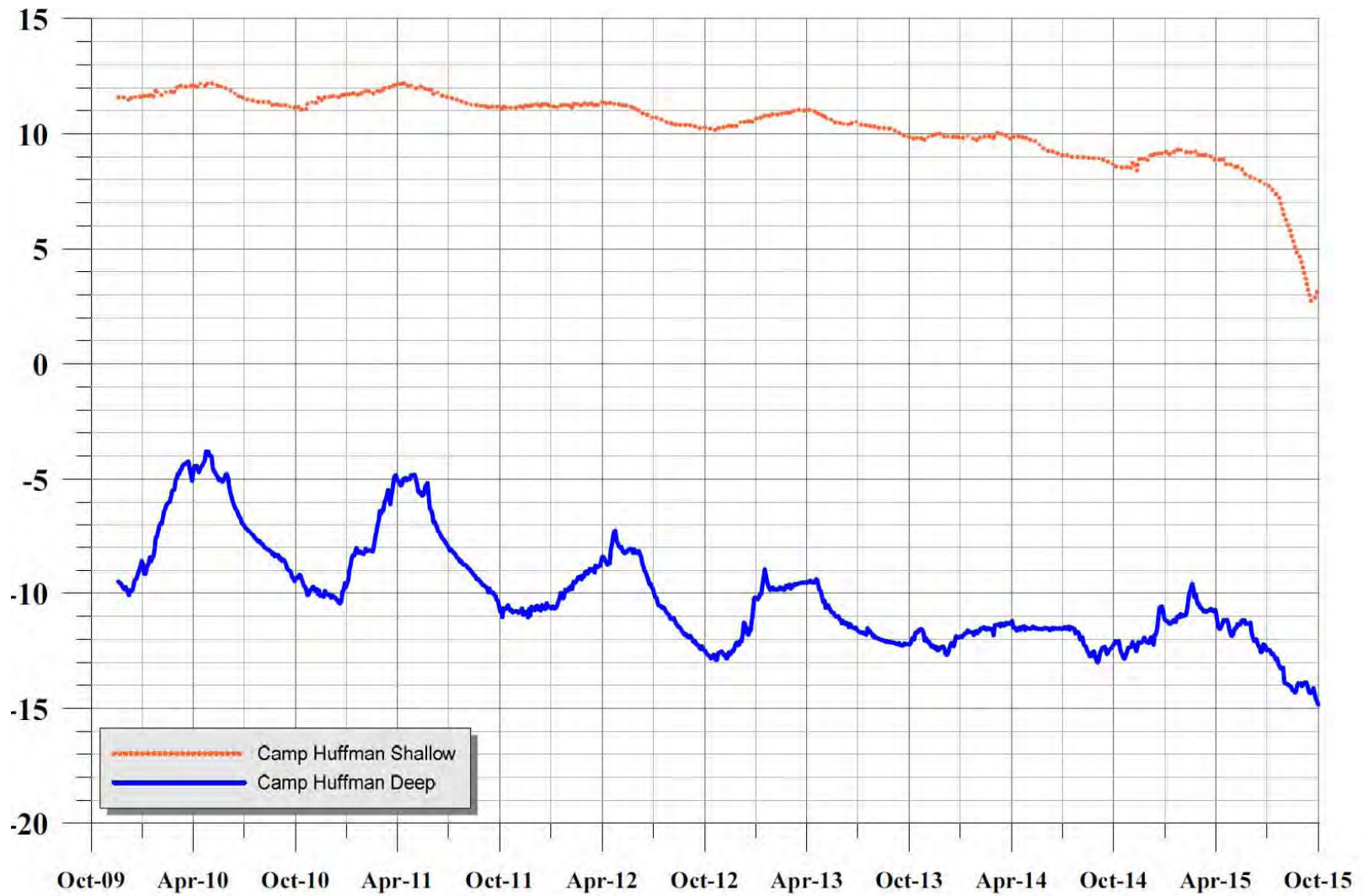


## Sentinel Well No. 4 Hydrograph

Continuous water level reported by tidal days

Screen intervals (feet below ground) : 705-800, 820-920

Total Depth: 930 feet



## Camp Huffman Monitor Well Hydrographs

Shallow Perforations - 600 to 680 feet bgs  
 Deep Perforations - 950 to 1,320 feet bgs