



Malibu Civic Center Wastewater Treatment Facility

First Quarter 2018 Baseline Groundwater and Surface Water Monitoring Report

prepared by

Rincon Consultants, Inc.

April 27, 2018

Table of Contents

1	Introduction	1
2	Background	1
3	Geologic and Hydrogeologic Setting.....	3
3.1	Hydrology	3
3.2	Geology	3
3.3	Hydrogeology.....	3
4	Activities Completed During the First Quarter of 2018	4
5	Groundwater Elevations and Gradients	4
5.1	Shallow Zone.....	4
5.2	Deep Zone	5
5.3	Winter Canyon	5
6	Water Quality Sampling Analysis.....	5
6.1	Surface Water Sampling Methodology.....	5
6.2	Surface Water Analytical Laboratory Analysis	5
6.2.1	Total Coliform	6
6.2.2	Fecal Coliform	6
6.2.3	Nitrogen.....	6
6.2.4	Total Phosphorous.....	7
6.2.5	Analytical Laboratory QA/QC.....	7
7	Scheduled Activities for the Second Quarter of 2018	7
8	Summary of Monitoring Activities	7
9	Limitations	8
10	References	1

Tables

Table 1	Groundwater Elevations
Table 2	Surface Water Analytical Matrix
Table 3	Surface Water Analytical Results

Figures

Figure 1	Vicinity Map
Figure 2	Site Map
Figure 3	Shallow Groundwater Elevations January 2018
Figure 4	Shallow Groundwater Elevations February 2018
Figure 5	Shallow Groundwater Elevations March 2018
Figure 6	The Nitrogen Cycle



Rincon Consultants, Inc.

180 North Ashwood Avenue
Ventura, California 93003

805 644 4455 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

April 27, 2018
Project No: 15-01587

Craig George
Environmental Sustainability Department Director
Building Official
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90265

**Subject: First Quarter 2018 Baseline Groundwater and Surface Water Monitoring Report,
Malibu Civic Center Wastewater Treatment Facility – City of Malibu, California**

Dear Mr. George:

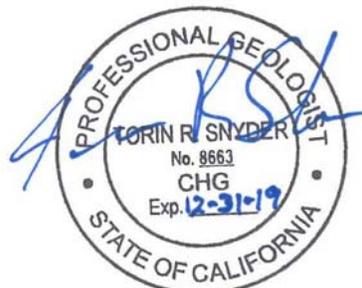
Rincon Consultants, Inc. has prepared the First Quarter 2018 Baseline Groundwater and Surface Water Monitoring Report for the Malibu Civic Center Wastewater Treatment Facility located in Malibu, California. The objective of the study is to develop baseline groundwater and surface water quality conditions prior to the operation of the Wastewater Treatment Facility. Once the Wastewater Treatment Facility is operating, the baseline water quality conditions will be used to identify any potential impacts as a result of land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon. Current construction timelines estimate that the treatment plan will be operational by June 2018.

Please contact us with any questions you may have regarding the results of the First Quarter 2018 Baseline Groundwater and Surface Water Monitoring Report.

Sincerely,
Rincon Consultants, Inc.

A handwritten signature in black ink, appearing to read "KB", is written over a light blue circular stamp.

Kiernan Brtalik, CPSWQ, QSP/D
Environmental Scientist



Torin Snyder, PG, CHG, TOR, QSD/P
Principal



"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment."

Executed on the 30 day of April, 2018 at _____

Signature

Environmental Sustainability Director

Title

Appendices

Appendix A Groundwater and Surface Water Field Sheets

Appendix B Laboratory Analytical Reports

1 Introduction

This report presents the results of the First Quarter 2018 Baseline Groundwater and Surface Water Monitoring event for the Malibu Civic Center Wastewater Treatment Facility located in the City of Malibu, California (Figure 1). The objective of the work program is to implement and manage a basin-wide groundwater and surface water monitoring and reporting program. The monitoring program has been designed to identify potential impacts as a result of land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water quality of the local groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

This report was prepared by Rincon Consultants, Inc. (Rincon) and presents the geologic and hydrogeologic setting, groundwater elevations and gradient, surface water sampling methodologies, and water quality data results.

2 Background

On-site wastewater disposal systems (OWDS) have allegedly contributed to the non-point source pollution of Malibu Creek and Lagoon located in the Civic Center Area of the City of Malibu. As a result of regulatory actions taken by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the State Water Resources Control Board (SWRCB) to prohibit discharges from OWDS in the Civic Center area, the City of Malibu has designed and begun constructing a new wastewater treatment facility.

To establish baseline groundwater and surface water quality conditions prior to operation and discharge of treated wastewater, the LARWQCB requires basin-wide, baseline groundwater and surface water monitoring. The water quality monitoring program is driven by several factors:

- Timelines established through regulatory action
- Proposed programs to fulfill anticipated future regulatory requirements associated with the development of the Civic Center Wastewater Treatment Facility (CCWTF)
- The distribution of Title 22 Recycled Water in the Prohibition area
- Protection of the Malibu Valley Groundwater Basin, Malibu Creek, Malibu Lagoon, and the near shore environment of Santa Monica Bay

At this time, the basin-wide monitoring program consists of five water quality monitoring tasks that occur in the Civic Center area of the City of Malibu. All five monitoring tasks have been designed to build upon one another to provide a comprehensive basin-wide groundwater and surface water monitoring program. Below is a general description of each task and a discussion of key objectives.

Task I – Baseline Groundwater and Surface Water Quality Monitoring of the Civic Center Area

The baseline groundwater and surface water quality monitoring task involves monitoring groundwater in nine shallow and deep groundwater wells and monitoring surface water quality at ten locations. The objective of this task's monitoring is to develop baseline, ambient shallow and deep groundwater, and surface water conditions prior to the implementation of the CCWTF, as required by the Monitoring and Reporting Program (MRP) No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

Task II – Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring of the Civic Center Area

The long-term groundwater and surface water quality monitoring task involves monitoring groundwater in nine shallow and deep groundwater wells and monitoring surface water quality at ten locations. The objective of long-term monitoring is to identify impacts that land disposal of recycled water, via injection and landscape irrigation or percolation, will have on the water quality of the receiving groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon. The nine groundwater monitoring wells and ten surface water sampling locations identified in Task II will be sampled on a quarterly basis once CCWTF operations commence. This sampling is required by the MRP No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

Task III – Salt and Nutrient Management Plan Monitoring Program

The Salt and Nutrient Management Plan (SNMP) monitoring program branches off from the baseline and long-term groundwater and surface water monitoring programs described above (Tasks I and II). Task III involves performing semi-annual groundwater monitoring at 16 groundwater monitoring wells (mix of shallow and deep) located in the Civic Center area of the City and in a small area in the unincorporated portion of Los Angeles County. The objective of the SNMP is to monitor potential impacts that recycled water, introduced through irrigation and injection, will have on the Malibu Groundwater Basin. The SNMP will also provide data to assess the various phases of the CCWTF implementation during the time that the collection system and treatment plant connections increase, and as OWDS-related discharges cease (RMC Water 2015a).

Task IV – Memorandum of Understanding Compliance Monitoring

Compliance with the Memorandum of Understanding (MOU) the City has with the LARWQCB corresponds with baseline and long-term groundwater and surface water monitoring programs described in Tasks I through III above. Task IV involves performing semi-annual monitoring at 14 groundwater wells located in the City's Civic Center area. The objective of the MOU is to monitor for potential impacts to the Shallow Alluvium as a result of CCTWF implementation (LARWQCB 2014).

Task V – Civic Center Groundwater Elevation Monitoring Program

The groundwater elevation monitoring program has been designed to appraise the groundwater elevations in the Malibu Groundwater Basin and in Winter Canyon. The objective of this task is to provide a better understanding of the groundwater elevation conditions in the Civic Center Area, including elevation trends related to precipitation, tidal, and lagoon influences (LARWQCB 2015).

3 Geologic and Hydrogeologic Setting

3.1 Hydrology

The project lies in the Los Angeles hydrologic region, as defined by the LARWQCB. The Los Angeles hydrologic region encompasses all coastal drainages flowing to the Pacific Ocean between Rincon Point and the eastern Los Angeles County line. The study area covers two watersheds: the Malibu Creek and Winter Canyon Creek watersheds. The majority of the study area addressed in this report is located within the 109-square-mile Malibu Creek watershed, which is the second largest watershed draining to the Santa Monica Bay. The Malibu Creek watershed contains mostly undeveloped mountain areas, large-acreage residential properties, and many natural stream reaches (Los Angeles RWQCB 2011). Malibu Lagoon is located at the terminus of the Malibu Creek watershed. Malibu Lagoon is a brackish estuary of approximately 13 acres. However, it is one of only two remaining coastal marshes in Los Angeles County.

3.2 Geology

The study area is located within the Santa Monica Mountains in the northwestern corner of the Los Angeles basin. The study area lies at the juncture of the Peninsular Ranges geomorphic province, consisting of a northwest-oriented structural grain, and the Transverse Ranges geomorphic province, which features a predominantly east-west-oriented structural grain.

The 45-mile-long Santa Monica Mountains range is part of the southernmost portion of the western Transverse Ranges province. It forms an east-west range of low mountains along the southern California Coast from the Oxnard Plain to Los Angeles. The Santa Monica Mountain range is characterized by long, south-draining canyons on its south flank and short, north-draining canyons on its north flank. The Malibu Canyon and Winter Canyon are two significant canyons within the study area that drain to the south.

3.3 Hydrogeology

The Malibu Valley Groundwater Basin (DWR groundwater basin no. 4-22) is a small alluvial basin, approximately 613 acres in size. The groundwater basin is bounded by the Pacific Ocean on the south, and by the Santa Monica Mountains, composed of non-water-bearing Tertiary age rocks to the north, east, and west.

Water bearing geologic formations in the Malibu Valley Groundwater Basin are comprised of Holocene alluvium, consisting of clays, silts, sands, and gravels, overlying impermeable bedrock. The unconsolidated alluvium in the Civic Center area by Malibu Creek and other small drainages is estimated to range in thickness from a thin layer near the valley walls to around 175 feet in the central part of the main body of the alluvium. The alluvium can be subdivided into three categories or zones: 1) a shallow zone of permeable alluvial sediments, 2) underlain by a sequence of fine-grained estuarine deposits, and 3) an underlying coarse-grained stratum commonly referred to as the "Civic Center Gravels" (GeoSoils 1989, Leighton 1994, ECI 200, Ambrose and Orme 2000, Fugro West, Inc. 2005, Geosyntec Consultants 2007). Depth to groundwater in the alluvium is typically 5 to 13 feet below grade and is deeper in the upland canyon areas.

4 Activities Completed During the First Quarter of 2018

The following activities were completed during the First Quarter of 2018:

- Rincon measured depth to water in groundwater monitoring wells on January 22, 2018, February 14, 2018, and March 19, 2018.
- Rincon collected and analyzed surface water samples for WDR/MRP compliance on April 13, 2018.

5 Groundwater Elevations and Gradients

Rincon mobilized to 46 groundwater monitoring wells to measure the depth to water using an electronic water level indicator on January 22, 2018, February 14, 2018, and March 19, 2018 (Table 1 and Appendix A). Of the 46 groundwater monitoring wells, two of the wells were unable to be located (MBCMW-5 and MBCMW-6). In addition, one well was inaccessible due to lagoon restoration activities. Lastly, one well was reported as dry for all three monitoring events (SMBRP-15B). Therefore, groundwater elevations could not be calculated in four groundwater wells.

5.1 Shallow Zone

The groundwater elevations ranged from 2.27 feet above mean sea level (amsl) in groundwater monitoring well CCPE to 21.35 feet amsl in groundwater monitoring well SMBRP-8 (Table 1). Groundwater elevations during the First Quarter of 2018 generally increased from January to February and decreased from February to March in most shallow groundwater monitoring wells located in close proximity to Malibu Lagoon and Creek during the First Quarter of 2018. Conversely, groundwater elevations generally decreased from January to February and increased from February to March in most shallow groundwater monitoring wells in the vicinity of Civic Center Way.

Groundwater elevations decreased a maximum of 0.23 feet amsl in groundwater monitoring well C-1 and a minimum of 0.07 feet amsl in groundwater monitoring well SMBRP-13. Groundwater elevations increased a maximum 4.80 feet amsl in groundwater monitoring well SMBRP-16 and a minimum of 0.01 feet amsl in groundwater monitoring well CCPNE. The predominant direction of groundwater flow ranged from southeast to south, towards the coastline. Elevation data and flow direction are depicted in Figures 3 through 5.

The shallow groundwater gradient was 0.0039 feet/foot, 0.0035 feet/foot, and 0.0036 feet/foot (calculated using groundwater monitoring wells SMBRP-2, SMBRP-9, and SMBRP-12) during the January, February, and March monitoring events, respectively.

5.2 Deep Zone

The groundwater elevations ranged from 4.83 feet amsl in groundwater monitoring well MCWP-MW07D to 9.99 feet amsl in groundwater monitoring well MCWP-MW09 (Table 1). Groundwater elevations decreased a maximum of 1.40 feet amsl in groundwater monitoring well MCWP-MW09 and increased a maximum 0.48 feet amsl in groundwater monitoring well MCWP-MW06 when comparing monthly groundwater elevations between January and March 2018.

5.3 Winter Canyon

The groundwater elevations ranged from 9.45 feet amsl in groundwater monitoring well SMBRP-11 to 50.70 feet amsl in groundwater monitoring well LAMW-5S (Table 1). Groundwater elevation decreased a maximum of 0.72 feet amsl in groundwater monitoring well LAMW-5S and decreased a minimum 0.08 feet amsl in groundwater monitoring well SMBRP-11 when comparing monthly groundwater elevations between January and March 2018.

6 Water Quality Sampling Analysis

6.1 Surface Water Sampling Methodology

On April 13, 2018 a total of ten surface water samples were collected. Four ocean water samples were collected from the near shore area along Malibu Road (N-001 through N-004) and six surface water samples were collected from the Malibu Lagoon and Creek (L-001 through L-006). The nearshore surface water samples were collected from each location at a depth of approximately 3-6 inches (ankle deep). Surface water samples from Malibu Lagoon and Creek were collected from each location at a depth of approximately twelve inches below the surface of the water.

All surface water samples were collected up-current of the sampling person's body to minimize the potential for contaminating the surface water sample with bacteria that may originate from field personnel. Surface water samples were collected directly into lab-supplied containers when possible, or into a field sampling container and then transferred into preserved and non-preserved containers supplied by Fruit Growers Laboratory, Inc. (FGL) located in Santa Paula, California. The containers were capped, labeled, placed in Ziploc bags, and stored on ice in a cooler pending delivery to FGL.

The surface water samples were analyzed for total and fecal coliform, total dissolved solids (TDS), phosphorous, nitrate (as nitrogen), nitrite (as nitrogen), ammonia, organic nitrogen, and total Kjeldahl nitrogen (TKN). All surface water monitoring locations and corresponding laboratory analyses are shown in the Surface Water Analytical Matrix (Table 2).

6.2 Surface Water Analytical Laboratory Analysis

The surface water samples collected during the First Quarter 2018 sampling event were analyzed by FGL. The laboratory analytical results for the First Quarter monitoring event are shown in Table 3. Laboratory reports are included as Appendix B of this report.

6.2.1 Total Coliform

During the First Quarter 2018 monitoring event, total coliform concentrations in the near shore surface water ranged from 4.5 Most Probable Number per 100 milliliters (MPN/100 mL) at N-004 to 49 MPN/100 mL at N-001. An average concentration of 29.13 MPN/100 mL was calculated for all near shore samples collected during the First Quarter 2018 monitoring event. Total coliform concentrations in the surface water of Malibu Lagoon and Creek ranged from 1,600 MPN/100 mL at L-004 to greater than 1,600 MPN/100 mL at the remaining five sampling locations with an average concentration of approximately 1,600 MPN/100 mL.¹

6.2.2 Fecal Coliform

During the First Quarter 2018 monitoring event, fecal coliform concentrations in the near shore surface water ranged from 2.0 MPN/100 mL at N-001 to 21 MPN/100 mL at N-002 with an average concentration of 11.1 MPN/100 mL. Fecal coliform concentrations in the Malibu Lagoon and Creek surface water ranged from 49 MPN/100 mL at L-002 to 220 MPN/100 mL at L-001 with an average concentration of 114 MPN/100 mL.

6.2.3 Nitrogen

Nitrate as Nitrogen

Nitrate as nitrogen concentrations in all surface water samples collected at the near shore sampling locations ranged from 0.05 milligrams per liter (mg/L) at N-003, which is below the analytical practical quantification limit (PQL, reporting limit)², but above the method detection limit (MDL)³, to 0.1 mg/L in the remaining three locations.

Nitrate as nitrogen concentrations in surface water samples collected at Malibu Lagoon and Creek sampling locations ranged from 0.6 mg/L at L-003 and L-005 to 1.7 mg/L at L-001.

Other Forms of Nitrogen

All nitrite as nitrogen concentrations in surface water samples collected at the near shore and Malibu Lagoon and Creek sampling locations were detected below the reporting limit of 0.1 mg/L, but all were detected above the MDL of 0.01 mg/L (ranging from 0.014 mg/L to 0.023 mg/L).

Organic nitrogen concentrations in surface water samples collected at the near shore sampling locations during the First Quarter 2018 monitoring event were not detected above the MDL of 0.07 mg/L. One Malibu Lagoon and Creek sampling location was reported below the reporting limit, but above the MDL (L-006). In addition, organic nitrogen was only detected at the Malibu Lagoon and Creek sampling location L-003 at a concentration of 0.741 mg/L.

Ammonia (NH_3^+) is the primary form of nitrogen in OWDS effluent, and it is converted to nitrate during the leaching process through the vadose zone (Figure 6). All ammonia concentrations in surface water samples collected at the near shore and the Malibu Lagoon and Creek sampling

¹ The upper detection limit value was used for results that exceeded the upper limit to calculate the average total coliform concentration.

² The PQL is the minimum concentration of an analyte can be measured with a high degree of confidence that the analyte is present at or above that concentration.

³ The MDL is a lab calculation, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample in a given matrix containing the analyte.

locations during the First Quarter 2018 monitoring event were not detected above the MDL of 0.07 mg/L.

TKN concentrations in surface water samples collected at the near shore sampling locations during the First Quarter 2018 monitoring event were not detected above the MDL of 0.32 mg/L. One Malibu Creek and Lagoon sampling location was reported above the MDL (L-006) and one was reported above the reporting limit (L-003).

6.2.4 Total Phosphorous

Total phosphorus concentrations in surface water samples collected at the near shore sampling locations during the First Quarter 2018 sampling event were detected above the MDL (0.02 mg/L) at one sampling location (N-002) and above the reporting limit (0.1 mg/L) at one sampling location (N-001). Total phosphorus was detected above the reporting limit in all of the Malibu Lagoon and Creek sampling locations, ranging from 0.312 mg/L at L-005 to 0.858 mg/L at L-001.

6.2.5 Analytical Laboratory QA/QC

FGL performed QA/QC measures including the recovery of surrogates. FGL followed all QA procedures per method requirements. Any exceedances are indicated in the Case Narrative of the analytical laboratory report. The Data Qualifier Flag (DQF) column of the analytical reports also has the QC flags; definitions for the QC flags are below the analytical tables.

7 Scheduled Activities for the Second Quarter of 2018

The following activities will be completed during the Second Quarter of 2018:

- Prepare and submit the First Quarter 2018 Groundwater and Surface Water Monitoring Report to the LARWQCB.
- Rincon will collect and analyze surface water samples for MRP compliance (Task I).
- Rincon will collect and analyze groundwater samples for SNMP compliance (Task III).
- Rincon will collect and analyze groundwater samples for MOU compliance (Task IV).
- Rincon will measure depth to water in the groundwater monitoring wells in April, May, and June (Task V).

8 Summary of Monitoring Activities

Groundwater elevations generally increased in most shallow groundwater monitoring wells located in close proximity to Malibu Lagoon and Creek during the First Quarter of 2018. Deep groundwater monitoring well elevations increased between January and March 2018. At Winter Canyon, well IDs

LAMW-5S and SMBRP-11 remained relatively static. Shallow groundwater generally flows southeast to south, towards the coastline.

When comparing coliform bacteria results from the First Quarter 2018 surface water monitoring event to past quarters, no trend was observed. Instead, a general variation was observed at both near shore surface water and Malibu Lagoon and Creek surface water sampling locations.

Nitrate as nitrogen concentrations in all surface water samples collected at the near shore sampling locations were at or below the analytical practical quantitation limit (reporting limit) of 0.1 mg/L.

Nitrate as nitrogen concentrations in surface water samples collected at Malibu Lagoon and Creek sampling locations ranged from 0.6 mg/L at L-003 and L-005 to 1.7 mg/L at L-001.

Overall, the First Quarter 2018 surface water monitoring event generally demonstrated consistent results to those observed in past events.

9 Limitations

This report has been prepared for and is intended for the exclusive use of the City of Malibu. The contents of this report should not be relied upon by any other party without the written consent of Rincon Consultants, Inc.

Our conclusions regarding the site are based on observations of existing site conditions, our interpretation of site usage information, and the results of a limited subsurface sampling and chemical testing program. The concentrations of contaminants measured at any given location may not be representative of conditions at other locations intermediate to the locations sampled. Furthermore, conditions may change at any particular location as a function of time in response to natural conditions, chemical reactions, and other events. Conclusions regarding the condition of the site do not represent a warranty that all areas within the site are similar to those sampled.

10 References

- Ambrose, Richard F. and Anthony R. Orme. 2000. Lower Malibu Creek and Lagoon Resource Enhancement and Management: Final Report to the California Coastal Conservancy.
- Fugro West, Inc. 2005. A Steady-State Groundwater Flow Model for the Proposed Malibu-Lapaz Ranch Development. Prepared for Sterling Capital.
- GeoSoils. 1989. Response to County of Los Angeles Geologic Review of 18.4 Acre Parcel NW of Cross Creek Road and Civic Center Way. April 17.
- Geosyntec Consultants. 2007. Geotechnical Site Exploration and Interpretation of Subsurface Conditions, Malibu Legacy Park Site, Malibu, California. Report prepared for RMC Water and Environment. July 30.
- Leighton and Associates, Inc. 1994. Report for Geotechnical Studies for Planning Purposes in the Civic Center Area, City of Malibu, California. Volumes I and II.
- Los Angeles Regional Water Quality Control Board. 2011. State of the Watershed, Report on Water Quality, the Santa Monica Bay Watershed Management Area. Second Edition. November.
- Los Angeles Regional Water Quality Control Board. 2014. Memorandum of Understanding Between City of Malibu and the Regional Water Quality Control Board, Los Angeles Region and State Water Resources Control Board Regarding Phased Implementation of Basin Plan Amendment Prohibiting On-Site Wastewater Disposal Systems in the Malibu Civic Center Area.
- Los Angeles Regional Water Quality Control Board. 2015. Waste Discharge Requirements / Water Recycling Requirements for Malibu Civic Center Wastewater Treatment Facility – Phase I & II.
- RMC Water. 2015a. Draft Salt Nutrient and Management Plan Malibu Valley Groundwater Basin.
- RMC Water. 2015b. Draft Groundwater Management Plan Malibu Valley Groundwater Basin.

Tables

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
C-1	8/24/2015	11.47	N/A	-
C-1	9/21/2015	11.47	N/A	-
C-1	10/20/2015	11.47	N/A	-
C-1	11/16/2015	11.47	5.07	6.40
C-1	12/14/2015	11.47	4.12	7.35
C-1	1/14/2016	11.47	6.65	4.82
C-1	2/16/2016	11.47	6.65	4.82
C-1	3/14/2016	11.47	6.80	4.67
C-1	4/25/2016	11.47	5.72	5.75
C-1	5/16/2016	11.47	4.59	6.88
C-1	6/17/2016	11.47	4.72	6.75
C-1	7/20/2016	11.47	5.32	6.15
C-1	8/20/2016	11.47	5.42	6.05
C-1	9/19/2016	11.47	5.47	6.00
C-1	10/21/2016	11.47	5.64	5.83
C-1	11/18/2016	11.47	4.71	6.76
C-1	12/19/2016	11.47	6.75	4.72
C-1	1/17/2017	11.47	6.89	4.58
C-1	2/24/2017	11.47	7.28	4.19
C-1	3/27/2017	11.47	6.66	4.81
C-1	4/17/2017	11.47	7.32	4.15
C-1	5/22/2017	11.47	6.74	4.73
C-1	6/20/2017	11.47	4.49	6.98
C-1	7/28/2017	11.47	4.51	6.96
C-1	8/25/2017	11.47	4.61	6.86
C-1	9/11/2017	11.47	4.96	6.51
C-1	10/16/2017	11.47	5.13	6.34
C-1	11/15/2017	11.47	5.32	6.15
C-1	12/11/2017	11.47	7.70	3.77
C-1	1/22/2018	11.47	6.63	4.84
C-1	2/14/2018	11.47	6.42	5.05
C-1	3/19/2018	11.47	6.86	4.61
C-2	8/24/2015	11.19	5.11	6.08
C-2	9/21/2015	11.19	4.92	6.27
C-2	10/20/2015	11.19	5.18	6.01
C-2	11/16/2015	11.19	4.96	6.23
C-2	12/14/2015	11.19	3.93	7.26
C-2	1/14/2016	11.19	6.44	4.75
C-2	2/16/2016	11.19	6.34	4.85
C-2	3/14/2016	11.19	6.50	4.69
C-2	4/25/2016	11.19	5.54	5.65
C-2	5/16/2016	11.19	4.49	6.70
C-2	6/17/2016	11.19	4.62	6.57
C-2	7/20/2016	11.19	5.16	6.03
C-2	8/20/2016	11.19	5.25	5.94
C-2	9/19/2016	11.19	5.21	5.98
C-2	10/21/2016	11.19	5.46	5.73
C-2	11/18/2016	11.19	4.48	6.71
C-2	12/19/2016	11.19	6.74	4.45
C-2	1/17/2017	11.19	6.51	4.68
C-2	2/24/2017	11.19	6.84	4.35
C-2	3/27/2017	11.19	6.55	4.64
C-2	4/17/2017	11.19	7.05	4.14
C-2	5/22/2017	11.19	6.54	4.65
C-2	6/20/2017	11.19	3.81	7.38
C-2	7/28/2017	11.19	4.37	6.82
C-2	8/25/2017	11.19	4.57	6.62
C-2	9/11/2017	11.19	4.86	6.33
C-2	10/16/2017	11.19	4.95	6.24
C-2	11/15/2017	11.19	5.04	6.15
C-2	12/11/2017	11.19	7.46	3.73
C-2	1/22/2018	11.19	6.68	4.51
C-2	2/14/2018	11.19	6.29	4.90
C-2	3/19/2018	11.19	6.57	4.62

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
CCPE	8/24/2015	12.94	5.76	7.18
CCPE	9/21/2015	12.94	5.61	7.33
CCPE	10/20/2015	12.94	5.87	7.07
CCPE	11/16/2015	12.94	5.79	7.15
CCPE	12/14/2015	12.94	4.52	8.42
CCPE	1/14/2016	12.94	7.95	4.99
CCPE	2/16/2016	12.94	8.27	4.67
CCPE	3/14/2016	12.94	8.35	4.59
CCPE	4/25/2016	12.94	7.13	5.81
CCPE	5/16/2016	12.94	5.72	7.22
CCPE	6/17/2016	12.94	6.54	6.40
CCPE	7/20/2016	12.94	6.09	6.85
CCPE	8/20/2016	12.94	6.43	6.51
CCPE	9/19/2016	12.94	6.80	6.14
CCPE	10/21/2016	12.94	6.67	6.27
CCPE	11/18/2016	12.94	5.61	7.33
CCPE	12/19/2016	12.94	11.63	1.31
CCPE	1/17/2017	12.94	8.38	4.56
CCPE	2/24/2017	12.94	8.67	4.27
CCPE	3/27/2017	12.94	8.21	4.73
CCPE	4/17/2017	12.94	8.90	4.04
CCPE	5/22/2017	12.94	8.25	4.69
CCPE	6/20/2017	12.94	5.73	7.21
CCPE	7/28/2017	12.94	5.47	7.47
CCPE	8/25/2017	12.94	5.68	7.26
CCPE	9/11/2017	12.94	6.00	6.94
CCPE	10/16/2017	12.94	5.60	7.34
CCPE	11/15/2017	12.94	5.82	7.12
CCPE	12/11/2017	12.94	8.70	4.24
CCPE	1/22/2018	12.94	10.67	2.27
CCPE	2/14/2018	12.94	7.50	5.44
CCPE	3/19/2018	12.94	8.06	4.88
CCPNE	8/24/2015	13.68	6.44	7.24
CCPNE	9/21/2015	13.68	6.27	7.41
CCPNE	10/20/2015	13.68	6.54	7.14
CCPNE	11/16/2015	13.68	6.74	6.94
CCPNE	12/14/2015	13.68	5.28	8.40
CCPNE	1/14/2016	13.68	8.51	5.17
CCPNE	2/16/2016	13.68	8.65	5.03
CCPNE	3/14/2016	13.68	8.65	5.03
CCPNE	4/25/2016	13.68	7.79	5.89
CCPNE	5/16/2016	13.68	6.39	7.29
CCPNE	6/17/2016	13.68	5.83	7.85
CCPNE	7/20/2016	13.68	6.79	6.89
CCPNE	8/20/2016	13.68	7.16	6.52
CCPNE	9/19/2016	13.68	7.52	6.16
CCPNE	10/21/2016	13.68	7.40	6.28
CCPNE	11/18/2016	13.68	6.32	7.36
CCPNE	12/19/2016	13.68	8.82	4.86
CCPNE	1/17/2017	13.68	8.66	5.02
CCPNE	2/24/2017	13.68	8.80	4.88
CCPNE	3/27/2017	13.68	9.37	4.31
CCPNE	4/17/2017	13.68	9.16	4.52
CCPNE	5/22/2017	13.68	8.97	4.71
CCPNE	6/20/2017	13.68	6.63	7.05
CCPNE	7/28/2017	13.68	6.26	7.42
CCPNE	8/25/2017	13.68	6.51	7.17
CCPNE	9/11/2017	13.68	6.81	6.87
CCPNE	10/16/2017	13.68	6.58	7.10
CCPNE	11/15/2017	13.68	6.52	7.16
CCPNE	12/11/2017	13.68	9.14	4.54
CCPNE	1/22/2018	13.68	8.53	5.15
CCPNE	2/14/2018	13.68	8.13	5.55
CCPNE	3/20/2018	13.68	8.52	5.16

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
CCPSW	8/24/2015	13.67	6.29	7.38
CCPSW	9/21/2015	13.67	6.09	7.58
CCPSW	10/20/2015	13.67	6.35	7.32
CCPSW	11/16/2015	13.67	6.24	7.43
CCPSW	12/14/2015	13.67	5.27	8.40
CCPSW	1/14/2016	13.67	8.22	5.45
CCPSW	2/16/2016	13.67	8.11	5.56
CCPSW	3/14/2016	13.67	8.05	5.62
CCPSW	4/25/2016	13.67	7.50	6.17
CCPSW	5/16/2016	13.67	6.18	7.49
CCPSW	6/17/2016	13.67	6.26	7.41
CCPSW	7/20/2016	13.67	6.60	7.07
CCPSW	8/20/2016	13.67	6.92	6.75
CCPSW	9/19/2016	13.67	7.28	6.39
CCPSW	10/21/2016	13.67	7.17	6.50
CCPSW	11/18/2016	13.67	6.22	7.45
CCPSW	12/19/2016	13.67	8.34	5.33
CCPSW	1/17/2017	13.67	8.03	5.64
CCPSW	2/24/2017	13.67	8.27	5.40
CCPSW	3/27/2017	13.67	9.32	4.35
CCPSW	4/17/2017	13.67	8.64	5.03
CCPSW	5/22/2017	13.67	8.86	4.81
CCPSW	6/20/2017	13.67	6.59	7.08
CCPSW	7/28/2017	13.67	6.17	7.50
CCPSW	8/25/2017	13.67	6.47	7.20
CCPSW	9/11/2017	13.67	6.76	6.91
CCPSW	10/16/2017	13.67	6.38	7.29
CCPSW	11/15/2017	13.67	6.36	7.31
CCPSW	12/11/2017	13.67	8.65	5.02
CCPSW	1/22/2018	13.67	8.15	5.52
CCPSW	2/14/2018	13.67	8.05	5.62
CCPSW	3/19/2018	13.67	8.15	5.52
CCW-4	8/24/2015	15.77	6.50	9.27
CCW-4	9/21/2015	15.77	6.71	9.06
CCW-4	10/20/2015	15.77	6.90	8.87
CCW-4	11/16/2015	15.77	7.02	8.75
CCW-4	12/14/2015	15.77	7.05	8.72
CCW-4	1/14/2016	15.77	6.19	9.58
CCW-4	2/16/2016	15.77	6.17	9.60
CCW-4	3/14/2016	15.77	5.72	10.05
CCW-4	4/25/2016	15.77	5.28	10.49
CCW-4	5/16/2016	15.77	6.45	9.32
CCW-4	6/17/2016	15.77	6.70	9.07
CCW-4	7/20/2016	15.77	7.07	8.70
CCW-4	8/20/2016	15.77	7.33	8.44
CCW-4	9/19/2016	15.77	7.56	8.21
CCW-4	10/21/2016	15.77	7.68	8.09
CCW-4	11/18/2016	15.77	7.84	7.93
CCW-4	12/19/2016	15.77	7.09	8.68
CCW-4	1/17/2017	15.77	4.97	10.80
CCW-4	2/24/2017	15.77	2.04	13.73
CCW-4	3/27/2017	15.77	2.92	12.85
CCW-4	4/17/2017	15.77	5.30	10.47
CCW-4	5/22/2017	15.77	5.72	10.05
CCW-4	6/20/2017	15.77	6.27	9.50
CCW-4	7/28/2017	15.77	7.30	8.47
CCW-4	8/25/2017	15.77	7.74	8.03
CCW-4	9/11/2017	15.77	7.76	8.01
CCW-4	10/16/2017	15.77	6.99	8.78
CCW-4	11/15/2017	15.77	6.43	9.34
CCW-4	12/11/2017	15.77	6.36	9.41
CCW-4	1/22/2018	15.77	6.04	9.73
CCW-4	2/14/2018	15.77	6.04	9.73
CCW-4	3/19/2018	15.77	5.45	10.32

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
GH6-M1	8/24/2015	-	28.92	-
GH6-M1	9/21/2015	-	29.11	-
GH6-M1	10/20/2015	-	29.24	-
GH6-M1	11/16/2015	-	29.32	-
GH6-M1	12/14/2015	-	29.43	-
GH6-M1	1/14/2016	-	29.43	-
GH6-M1	2/16/2016	-	29.56	-
GH6-M1	3/14/2016	-	29.44	-
GH6-M1	4/25/2016	-	29.46	-
GH6-M1	5/16/2016	-	29.35	-
GH6-M1	6/17/2016	-	29.20	-
GH6-M1	7/20/2016	-	29.49	-
GH6-M1	8/20/2016	-	29.58	-
GH6-M1	9/19/2016	-	29.69	-
GH6-M1	10/21/2016	-	29.85	-
GH6-M1	11/18/2016	-	29.95	-
GH6-M1	12/19/2016	-	30.05	-
GH6-M1	1/17/2017	-	29.90	-
GH6-M1	2/24/2017	-	28.74	-
GH6-M1	3/27/2017	-	27.63	-
GH6-M1	4/17/2017	-	26.91	-
GH6-M1	5/22/2017	-	26.16	-
GH6-M1	6/20/2017	-	26.13	-
GH6-M1	7/28/2017	-	26.36	-
GH6-M1	8/25/2017	-	26.61	-
GH6-M1	9/11/2017	-	26.81	-
GH6-M1	10/16/2017	-	27.13	-
GH6-M1	11/15/2017	-	27.30	-
GH6-M1	12/11/2017	-	27.51	-
GH6-M1	1/22/2018	-	27.83	-
GH6-M1	2/14/2018	-	27.98	-
GH6-M1	3/19/2018	-	28.10	-
GH8-M3	8/24/2015	-	28.37	-
GH8-M3	9/21/2015	-	28.54	-
GH8-M3	10/20/2015	-	28.69	-
GH8-M3	11/16/2015	-	28.75	-
GH8-M3	12/14/2015	-	28.78	-
GH8-M3	1/14/2016	-	28.92	-
GH8-M3	2/16/2016	-	28.96	-
GH8-M3	3/14/2016	-	28.79	-
GH8-M3	4/25/2016	-	28.78	-
GH8-M3	5/16/2016	-	28.63	-
GH8-M3	6/17/2016	-	28.67	-
GH8-M3	7/20/2016	-	28.90	-
GH8-M3	8/20/2016	-	29.08	-
GH8-M3	9/19/2016	-	29.19	-
GH8-M3	10/21/2016	-	29.36	-
GH8-M3	11/18/2016	-	29.36	-
GH8-M3	12/19/2016	-	29.44	-
GH8-M3	1/17/2017	-	29.27	-
GH8-M3	2/24/2017	-	27.80	-
GH8-M3	3/27/2017	-	26.22	-
GH8-M3	4/17/2017	-	25.44	-
GH8-M3	5/22/2017	-	25.13	-
GH8-M3	6/20/2017	-	25.38	-
GH8-M3	7/28/2017	-	25.84	-
GH8-M3	8/25/2017	-	26.13	-
GH8-M3	9/11/2017	-	26.33	-
GH8-M3	10/16/2017	-	26.63	-
GH8-M3	11/15/2017	-	26.77	-
GH8-M3	12/11/2017	-	27.13	-
GH8-M3	1/22/2018	-	27.44	-
GH8-M3	2/14/2018	-	27.55	-
GH8-M3	3/19/2018	-	27.68	-

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
GH9-M4	8/24/2015	-	30.31	-
GH9-M4	9/21/2015	-	30.54	-
GH9-M4	10/20/2015	-	30.66	-
GH9-M4	11/16/2015	-	30.75	-
GH9-M4	12/14/2015	-	30.86	-
GH9-M4	1/14/2016	-	34.54	-
GH9-M4	2/16/2016	-	31.12	-
GH9-M4	3/14/2016	-	31.07	-
GH9-M4	4/25/2016	-	34.32	-
GH9-M4	5/16/2016	-	32.80	-
GH9-M4	6/17/2016	-	30.56	-
GH9-M4	7/20/2016	-	30.90	-
GH9-M4	8/20/2016	-	31.09	-
GH9-M4	9/19/2016	-	31.18	-
GH9-M4	10/21/2016	-	31.29	-
GH9-M4	11/18/2016	-	30.87	-
GH9-M4	12/19/2016	-	31.11	-
GH9-M4	1/17/2017	-	30.79	-
GH9-M4	2/24/2017	-	30.53	-
GH9-M4	3/27/2017	-	24.94	-
GH9-M4	4/17/2017	-	24.79	-
GH9-M4	5/22/2017	-	29.08	-
GH9-M4	6/20/2017	-	26.30	-
GH9-M4	7/28/2017	-	27.14	-
GH9-M4	8/25/2017	-	27.57	-
GH9-M4	9/11/2017	-	27.67	-
GH9-M4	10/16/2017	-	27.92	-
GH9-M4	11/15/2017	-	28.27	-
GH9-M4	12/11/2017	-	28.70	-
GH9-M4	1/22/2018	-	29.23	-
GH9-M4	2/14/2018	-	27.73	-
GH9-M4	3/19/2018	-	29.62	-
M6-1	8/24/2015	-	6.61	-
M6-1	9/21/2015	-	6.43	-
M6-1	10/20/2015	-	6.72	-
M6-1	11/16/2015	-	6.68	-
M6-1	12/14/2015	-	6.35	-
M6-1	1/14/2016	-	6.63	-
M6-1	2/16/2016	-	7.03	-
M6-1	3/14/2016	-	6.45	-
M6-1	4/25/2016	-	7.15	-
M6-1	5/16/2016	-	6.85	-
M6-1	6/17/2016	-	7.04	-
M6-1	7/20/2016	-	7.34	-
M6-1	8/20/2016	-	7.61	-
M6-1	9/19/2016	-	7.87	-
M6-1	10/21/2016	-	7.83	-
M6-1	11/18/2016	-	7.19	-
M6-1	12/19/2016	-	7.26	-
M6-1	1/17/2017	-	5.81	-
M6-1	2/24/2017	-	4.96	-
M6-1	3/27/2017	-	7.17	-
M6-1	4/17/2017	-	6.77	-
M6-1	5/22/2017	-	7.74	-
M6-1	6/20/2017	-	7.14	-
M6-1	7/28/2017	-	6.97	-
M6-1	8/25/2017	-	7.14	-
M6-1	9/11/2017	-	7.18	-
M6-1	10/16/2017	-	6.71	-
M6-1	11/15/2017	-	6.57	-
M6-1	12/11/2017	-	7.20	-
M6-1	1/22/2018	-	6.79	-
M6-1	2/14/2018	-	6.93	-
M6-1	3/19/2018	-	6.36	-

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
M6-2	8/24/2015	-	5.76	-
M6-2	9/21/2015	-	5.75	-
M6-2	10/20/2015	-	6.08	-
M6-2	11/16/2015	-	6.17	-
M6-2	12/14/2015	-	6.12	-
M6-2	1/14/2016	-	4.69	-
M6-2	2/16/2016	-	5.46	-
M6-2	3/14/2016	-	4.27	-
M6-2	4/25/2016	-	5.51	-
M6-2	5/16/2016	-	5.74	-
M6-2	6/17/2016	-	5.94	-
M6-2	7/20/2016	-	6.21	-
M6-2	8/20/2016	-	6.42	-
M6-2	9/19/2016	-	6.61	-
M6-2	10/21/2016	-	6.82	-
M6-2	11/18/2016	-	6.96	-
M6-2	12/19/2016	-	5.93	-
M6-2	1/17/2017	-	3.05	-
M6-2	2/24/2017	-	1.75	-
M6-2	3/27/2017	-	3.87	-
M6-2	4/17/2017	-	4.80	-
M6-2	5/22/2017	-	5.98	-
M6-2	6/20/2017	-	6.45	-
M6-2	7/28/2017	-	6.55	-
M6-2	8/25/2017	-	6.58	-
M6-2	9/11/2017	-	6.30	-
M6-2	10/16/2017	-	5.45	-
M6-2	11/15/2017	-	5.27	-
M6-2	12/11/2017	-	4.41	-
M6-2	1/22/2018	-	4.98	-
M6-2	2/14/2018	-	5.40	-
M6-2	3/19/2018	-	4.26	-
M7-1	8/24/2015	-	8.09	-
M7-1	9/21/2015	-	8.12	-
M7-1	10/20/2015	-	8.40	-
M7-1	11/16/2015	-	8.48	-
M7-1	12/14/2015	-	8.30	-
M7-1	1/14/2016	-	8.04	-
M7-1	2/16/2016	-	8.36	-
M7-1	3/14/2016	-	7.83	-
M7-1	4/25/2016	-	8.46	-
M7-1	5/16/2016	-	8.17	-
M7-1	6/17/2016	-	8.22	-
M7-1	7/20/2016	-	8.54	-
M7-1	8/20/2016	-	8.74	-
M7-1	9/19/2016	-	8.88	-
M7-1	10/21/2016	-	9.01	-
M7-1	11/18/2016	-	8.98	-
M7-1	12/19/2016	-	8.68	-
M7-1	1/17/2017	-	6.94	-
M7-1	2/24/2017	-	5.13	-
M7-1	3/27/2017	-	6.71	-
M7-1	4/17/2017	-	7.52	-
M7-1	5/22/2017	-	8.28	-
M7-1	6/20/2017	-	8.22	-
M7-1	7/28/2017	-	8.37	-
M7-1	8/25/2017	-	8.61	-
M7-1	9/11/2017	-	8.76	-
M7-1	10/16/2017	-	8.14	-
M7-1	11/15/2017	-	7.95	-
M7-1	12/11/2017	-	8.25	-
M7-1	1/22/2018	-	7.95	-
M7-1	2/14/2018	-	7.96	-
M7-1	3/19/2018	-	7.18	-

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
M7-2	8/24/2015	-	7.78	-
M7-2	9/21/2015	-	7.91	-
M7-2	10/20/2015	-	8.15	-
M7-2	11/16/2015	-	8.27	-
M7-2	12/14/2015	-	8.28	-
M7-2	1/14/2016	-	7.34	-
M7-2	2/16/2016	-	7.74	-
M7-2	3/14/2016	-	7.03	-
M7-2	4/25/2016	-	7.84	-
M7-2	5/16/2016	-	7.70	-
M7-2	6/17/2016	-	7.77	-
M7-2	7/20/2016	-	8.05	-
M7-2	8/20/2016	-	8.26	-
M7-2	9/19/2016	-	8.42	-
M7-2	10/21/2016	-	8.64	-
M7-2	11/18/2016	-	8.88	-
M7-2	12/19/2016	-	8.21	-
M7-2	1/17/2017	-	5.91	-
M7-2	2/24/2017	-	3.56	-
M7-2	3/27/2017	-	5.29	-
M7-2	4/17/2017	-	6.88	-
M7-2	5/22/2017	-	7.73	-
M7-2	6/20/2017	-	8.07	-
M7-2	7/28/2017	-	8.28	-
M7-2	8/25/2017	-	8.58	-
M7-2	9/11/2017	-	7.45	-
M7-2	10/16/2017	-	7.64	-
M7-2	11/15/2017	-	7.58	-
M7-2	12/11/2017	-	7.68	-
M7-2	1/22/2018	-	7.43	-
M7-2	2/14/2018	-	7.47	-
M7-2	3/19/2018	-	6.40	-
MBCMW-7	8/24/2015	16.64	11.26	5.38
MBCMW-7	9/21/2015	16.64	10.94	5.70
MBCMW-7	10/20/2015	16.64	11.09	5.55
MBCMW-7	11/16/2015	16.64	11.11	5.53
MBCMW-7	12/14/2015	16.64	10.27	6.37
MBCMW-7	1/14/2016	16.64	11.39	5.25
MBCMW-7	2/16/2016	16.64	11.75	4.89
MBCMW-7	3/14/2016	16.64	11.55	5.09
MBCMW-7	4/25/2016	16.64	11.44	5.20
MBCMW-7	5/16/2016	16.64	11.22	5.42
MBCMW-7	6/17/2016	16.64	11.71	4.93
MBCMW-7	7/20/2016	16.64	12.12	4.52
MBCMW-7	8/20/2016	16.64	12.27	4.37
MBCMW-7	9/19/2016	16.64	12.65	3.99
MBCMW-7	10/21/2016	16.64	12.32	4.32
MBCMW-7	11/18/2016	16.64	10.31	6.33
MBCMW-7	12/19/2016	16.64	11.65	4.99
MBCMW-7	1/17/2017	16.64	11.29	5.35
MBCMW-7	2/24/2017	16.64	10.96	5.68
MBCMW-7	3/27/2017	16.64	12.84	3.80
MBCMW-7	4/17/2017	16.64	11.89	4.75
MBCMW-7	5/22/2017	16.64	12.56	4.08
MBCMW-7	6/20/2017	16.64	11.57	5.07
MBCMW-7	7/28/2017	16.64	11.35	5.29
MBCMW-7	8/25/2017	16.64	11.61	5.03
MBCMW-7	9/11/2017	16.64	9.28	7.36
MBCMW-7	10/16/2017	16.64	11.28	5.36
MBCMW-7	11/15/2017	16.64	11.12	5.52
MBCMW-7	12/11/2017	16.64	12.03	4.61
MBCMW-7	1/22/2018	16.64	11.74	4.90
MBCMW-7	2/14/2018	16.64	11.39	5.25
MBCMW-7	3/19/2018	16.64	11.45	5.19

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MBCMw-8	8/24/2015	16.53	9.11	7.42
MBCMw-8	9/21/2015	16.53	9.13	7.40
MBCMw-8	10/20/2015	16.53	9.44	7.09
MBCMw-8	11/16/2015	16.53	9.58	6.95
MBCMw-8	12/14/2015	16.53	9.59	6.94
MBCMw-8	1/14/2016	16.53	8.05	8.48
MBCMw-8	2/16/2016	16.53	8.66	7.87
MBCMw-8	3/14/2016	16.53	7.36	9.17
MBCMw-8	4/25/2016	16.53	8.54	7.99
MBCMw-8	5/16/2016	16.53	8.89	7.64
MBCMw-8	6/17/2016	16.53	9.16	7.37
MBCMw-8	7/20/2016	16.53	9.46	7.07
MBCMw-8	8/20/2016	16.53	9.73	6.80
MBCMw-8	9/19/2016	16.53	9.99	6.54
MBCMw-8	10/21/2016	16.53	10.02	6.51
MBCMw-8	11/18/2016	16.53	10.11	6.42
MBCMw-8	12/19/2016	16.53	9.61	6.92
MBCMw-8	1/17/2017	16.53	7.03	9.50
MBCMw-8	2/24/2017	16.53	4.41	12.12
MBCMw-8	3/27/2017	16.53	6.13	10.40
MBCMw-8	4/17/2017	16.53	7.45	9.08
MBCMw-8	5/22/2017	16.53	7.89	8.64
MBCMw-8	6/20/2017	16.53	8.82	7.71
MBCMw-8	7/28/2017	16.53	9.57	6.96
MBCMw-8	8/25/2017	16.53	9.76	6.77
MBCMw-8	9/11/2017	16.53	10.03	6.50
MBCMw-8	10/16/2017	16.53	8.07	8.46
MBCMw-8	11/15/2017	16.53	7.84	8.69
MBCMw-8	12/11/2017	16.53	8.51	8.02
MBCMw-8	1/22/2018	16.53	8.25	8.28
MBCMw-8	2/14/2018	16.53	8.61	7.92
MBCMw-8	3/19/2018	16.53	7.51	9.02
MBCMw-9	8/24/2015	17.71	8.70	9.01
MBCMw-9	9/21/2015	17.71	8.83	8.88
MBCMw-9	10/20/2015	17.71	9.00	8.71
MBCMw-9	11/16/2015	17.71	9.09	8.62
MBCMw-9	12/14/2015	17.71	9.09	8.62
MBCMw-9	1/14/2016	17.71	8.30	9.41
MBCMw-9	2/16/2016	17.71	8.06	9.65
MBCMw-9	3/14/2016	17.71	7.83	9.88
MBCMw-9	4/25/2016	17.71	8.21	9.50
MBCMw-9	5/16/2016	17.71	8.40	9.31
MBCMw-9	6/17/2016	17.71	8.64	9.07
MBCMw-9	7/20/2016	17.71	8.78	8.93
MBCMw-9	8/20/2016	17.71	8.80	8.91
MBCMw-9	9/19/2016	17.71	8.80	8.91
MBCMw-9	10/21/2016	17.71	9.29	8.42
MBCMw-9	11/18/2016	17.71	9.15	8.56
MBCMw-9	12/19/2016	17.71	8.75	8.96
MBCMw-9	1/17/2017	17.71	8.06	9.65
MBCMw-9	2/24/2017	17.71	5.11	12.60
MBCMw-9	3/27/2017	17.71	5.44	12.27
MBCMw-9	4/17/2017	17.71	5.99	11.72
MBCMw-9	5/22/2017	17.71	6.28	11.43
MBCMw-9	6/20/2017	17.71	6.76	10.95
MBCMw-9	7/28/2017	17.71	7.98	9.73
MBCMw-9	8/25/2017	17.71	8.31	9.40
MBCMw-9	9/11/2017	17.71	8.67	9.04
MBCMw-9	10/16/2017	17.71	7.83	9.88
MBCMw-9	11/15/2017	17.71	7.50	10.21
MBCMw-9	12/11/2017	17.71	7.73	9.98
MBCMw-9	1/22/2018	17.71	7.39	10.32
MBCMw-9	2/14/2018	17.71	9.03	8.68
MBCMw-9	3/19/2018	17.71	7.08	10.63

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MBCMw-10	8/24/2015	17.74	8.63	9.11
MBCMw-10	9/21/2015	17.74	8.20	9.54
MBCMw-10	10/20/2015	17.74	8.40	9.34
MBCMw-10	11/16/2015	17.74	8.35	9.39
MBCMw-10	12/14/2015	17.74	7.34	10.40
MBCMw-10	1/14/2016	17.74	8.82	8.92
MBCMw-10	2/16/2016	17.74	9.34	8.40
MBCMw-10	3/14/2016	17.74	8.97	8.77
MBCMw-10	4/25/2016	17.74	9.22	8.52
MBCMw-10	5/16/2016	17.74	8.75	8.99
MBCMw-10	6/17/2016	17.74	8.58	9.16
MBCMw-10	7/20/2016	17.74	9.29	8.45
MBCMw-10	8/20/2016	17.74	9.52	8.22
MBCMw-10	9/19/2016	17.74	9.85	7.89
MBCMw-10	10/21/2016	17.74	9.67	8.07
MBCMw-10	11/18/2016	17.74	8.31	9.43
MBCMw-10	12/19/2016	17.74	8.97	8.77
MBCMw-10	1/17/2017	17.74	8.67	9.07
MBCMw-10	2/24/2017	17.74	8.55	9.19
MBCMw-10	3/27/2017	17.74	10.12	7.62
MBCMw-10	4/17/2017	17.74	9.43	8.31
MBCMw-10	5/22/2017	17.74	10.07	7.67
MBCMw-10	6/20/2017	17.74	8.87	8.87
MBCMw-10	7/28/2017	17.74	8.84	8.90
MBCMw-10	8/25/2017	17.74	8.92	8.82
MBCMw-10	9/11/2017	17.74	8.41	9.33
MBCMw-10	10/16/2017	17.74	8.38	9.36
MBCMw-10	11/15/2017	17.74	8.36	9.38
MBCMw-10	12/11/2017	17.74	9.70	8.04
MBCMw-10	1/22/2018	17.74	9.10	8.64
MBCMw-10	2/14/2018	17.74	7.70	10.04
MBCMw-10	3/19/2018	17.74	8.61	9.13
MCWP-MW04S	8/24/2015	15.29	7.55	7.74
MCWP-MW04S	9/21/2015	15.29	7.67	7.62
MCWP-MW04S	10/20/2015	15.29	7.85	7.44
MCWP-MW04S	11/16/2015	15.29	7.99	7.30
MCWP-MW04S	12/14/2015	15.29	8.06	7.23
MCWP-MW04S	1/14/2016	15.29	6.48	8.81
MCWP-MW04S	2/16/2016	15.29	7.08	8.21
MCWP-MW04S	3/14/2016	15.29	5.92	9.37
MCWP-MW04S	4/25/2016	15.29	7.10	8.19
MCWP-MW04S	5/16/2016	15.29	7.36	7.93
MCWP-MW04S	6/17/2016	15.29	7.64	7.65
MCWP-MW04S	7/20/2016	15.29	7.95	7.34
MCWP-MW04S	8/20/2016	15.29	8.18	7.11
MCWP-MW04S	9/19/2016	15.29	8.35	6.94
MCWP-MW04S	10/21/2016	15.29	8.88	6.41
MCWP-MW04S	11/18/2016	15.29	8.40	6.89
MCWP-MW04S	12/19/2016	15.29	8.67	6.62
MCWP-MW04S	1/17/2017	15.29	6.62	8.67
MCWP-MW04S	2/24/2017	15.29	3.34	11.95
MCWP-MW04S	3/27/2017	15.29	5.20	10.09
MCWP-MW04S	4/17/2017	15.29	6.19	9.10
MCWP-MW04S	5/22/2017	15.29	6.73	8.56
MCWP-MW04S	6/20/2017	15.29	7.41	7.88
MCWP-MW04S	7/28/2017	15.29	7.91	7.38
MCWP-MW04S	8/25/2017	15.29	8.08	7.21
MCWP-MW04S	9/11/2017	15.29	7.87	7.42
MCWP-MW04S	10/16/2017	15.29	6.74	8.55
MCWP-MW04S	11/15/2017	15.29	6.71	8.58
MCWP-MW04S	12/11/2017	15.29	7.15	8.14
MCWP-MW04S	1/22/2018	15.29	6.86	8.43
MCWP-MW04S	2/14/2018	15.29	7.32	7.97
MCWP-MW04S	3/19/2018	15.29	6.05	9.24

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW07S	8/24/2015	13.72	6.76	6.96
MCWP-MW07S	9/21/2015	13.72	7.13	6.59
MCWP-MW07S	10/20/2015	13.72	6.44	7.28
MCWP-MW07S	11/16/2015	13.72	6.74	6.98
MCWP-MW07S	12/14/2015	13.72	6.56	7.16
MCWP-MW07S	1/14/2016	13.72	6.19	7.53
MCWP-MW07S	2/16/2016	13.72	6.75	6.97
MCWP-MW07S	3/14/2016	13.72	5.85	7.87
MCWP-MW07S	4/25/2016	13.72	6.49	7.23
MCWP-MW07S	5/16/2016	13.72	6.73	6.99
MCWP-MW07S	6/17/2016	13.72	N/A	-
MCWP-MW07S	7/20/2016	13.72	6.18	7.54
MCWP-MW07S	8/20/2016	13.72	6.25	7.47
MCWP-MW07S	9/19/2016	13.72	6.48	7.24
MCWP-MW07S	10/21/2016	13.72	6.61	7.11
MCWP-MW07S	11/18/2016	13.72	6.70	7.02
MCWP-MW07S	12/19/2016	13.72	6.67	7.05
MCWP-MW07S	1/17/2017	13.72	6.11	7.61
MCWP-MW07S	2/24/2017	13.72	N/A	-
MCWP-MW07S	3/27/2017	13.72	N/A	-
MCWP-MW07S	4/17/2017	13.72	N/A	-
MCWP-MW07S	5/22/2017	13.72	N/A	-
MCWP-MW07S	6/20/2017	13.72	N/A	-
MCWP-MW07S	7/28/2017	13.72	5.79	7.93
MCWP-MW07S	8/25/2017	13.72	6.09	7.63
MCWP-MW07S	9/11/2017	13.72	6.02	7.70
MCWP-MW07S	10/16/2017	13.72	6.04	7.68
MCWP-MW07S	11/15/2017	13.72	6.50	7.22
MCWP-MW07S	12/11/2017	13.72	5.73	7.99
MCWP-MW07S	1/22/2018	13.72	5.92	7.80
MCWP-MW07S	2/14/2018	13.72	6.23	7.49
MCWP-MW07S	3/19/2018	13.72	6.05	7.67
MCWP-MW08	8/24/2015	12.21	7.64	4.57
MCWP-MW08	9/21/2015	12.21	7.42	4.79
MCWP-MW08	10/20/2015	12.21	7.61	4.60
MCWP-MW08	11/16/2015	12.21	7.40	4.81
MCWP-MW08	12/14/2015	12.21	6.62	5.59
MCWP-MW08	1/14/2016	12.21	8.46	3.75
MCWP-MW08	2/16/2016	12.21	8.27	3.94
MCWP-MW08	3/14/2016	12.21	7.96	4.25
MCWP-MW08	4/25/2016	12.21	7.83	4.38
MCWP-MW08	5/16/2016	12.21	6.87	5.34
MCWP-MW08	6/17/2016	12.21	6.97	5.24
MCWP-MW08	7/20/2016	12.21	7.76	4.45
MCWP-MW08	8/20/2016	12.21	7.77	4.44
MCWP-MW08	9/19/2016	12.21	7.74	4.47
MCWP-MW08	10/21/2016	12.21	8.00	4.21
MCWP-MW08	11/18/2016	12.21	7.27	4.94
MCWP-MW08	12/19/2016	12.21	8.57	3.64
MCWP-MW08	1/17/2017	12.21	8.00	4.21
MCWP-MW08	2/24/2017	12.21	8.77	3.44
MCWP-MW08	3/27/2017	12.21	8.81	3.40
MCWP-MW08	4/17/2017	12.21	8.74	3.47
MCWP-MW08	5/22/2017	12.21	9.04	3.17
MCWP-MW08	6/20/2017	12.21	7.47	4.74
MCWP-MW08	7/28/2017	12.21	7.21	5.00
MCWP-MW08	8/25/2017	12.21	7.40	4.81
MCWP-MW08	9/11/2017	12.21	7.68	4.53
MCWP-MW08	10/16/2017	12.21	7.72	4.49
MCWP-MW08	11/15/2017	12.21	7.78	4.43
MCWP-MW08	12/11/2017	12.21	9.02	3.19
MCWP-MW08	1/22/2018	12.21	8.73	3.48
MCWP-MW08	2/14/2018	12.21	7.85	4.36
MCWP-MW08	3/19/2018	12.21	8.34	3.87

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW10	8/24/2015	11.11	5.70	5.41
MCWP-MW10	9/21/2015	11.11	5.55	5.56
MCWP-MW10	10/20/2015	11.11	5.81	5.30
MCWP-MW10	11/16/2015	11.11	5.74	5.37
MCWP-MW10	12/14/2015	11.11	4.59	6.52
MCWP-MW10	1/14/2016	11.11	8.09	3.02
MCWP-MW10	2/16/2016	11.11	7.98	3.13
MCWP-MW10	3/14/2016	11.11	8.04	3.07
MCWP-MW10	4/25/2016	11.11	7.07	4.04
MCWP-MW10	5/16/2016	11.11	5.63	5.48
MCWP-MW10	6/17/2016	11.11	5.73	5.38
MCWP-MW10	7/20/2016	11.11	6.02	5.09
MCWP-MW10	8/20/2016	11.11	6.34	4.77
MCWP-MW10	9/19/2016	11.11	6.70	4.41
MCWP-MW10	10/21/2016	11.11	6.61	4.50
MCWP-MW10	11/18/2016	11.11	5.57	5.54
MCWP-MW10	12/19/2016	11.11	N/A	-
MCWP-MW10	1/17/2017	11.11	8.11	3.00
MCWP-MW10	2/24/2017	11.11	8.45	2.66
MCWP-MW10	3/27/2017	11.11	8.70	2.41
MCWP-MW10	4/17/2017	11.11	8.58	2.53
MCWP-MW10	5/22/2017	11.11	8.26	2.85
MCWP-MW10	6/20/2017	11.11	5.70	5.41
MCWP-MW10	7/28/2017	11.11	5.43	5.68
MCWP-MW10	8/25/2017	11.11	5.64	5.47
MCWP-MW10	9/11/2017	11.11	6.10	5.01
MCWP-MW10	10/16/2017	11.11	5.88	5.23
MCWP-MW10	11/15/2017	11.11	5.83	5.28
MCWP-MW10	12/11/2017	11.11	8.23	2.88
MCWP-MW10	1/22/2018	11.11	7.99	3.12
MCWP-MW10	2/14/2018	11.11	7.73	3.38
MCWP-MW10	3/19/2018	11.11	8.12	2.99
P-4	8/24/2015	12.16	4.58	7.58
P-4	9/21/2015	12.16	4.47	7.69
P-4	10/20/2015	12.16	4.71	7.45
P-4	11/16/2015	12.16	4.65	7.51
P-4	12/14/2015	12.16	3.52	8.64
P-4	1/14/2016	12.16	6.93	5.23
P-4	2/16/2016	12.16	6.88	5.28
P-4	3/14/2016	12.16	6.92	5.24
P-4	4/25/2016	12.16	6.00	6.16
P-4	5/16/2016	12.16	4.57	7.59
P-4	6/17/2016	12.16	4.68	7.48
P-4	7/20/2016	12.16	4.95	7.21
P-4	8/20/2016	12.16	5.27	6.89
P-4	9/19/2016	12.16	5.63	6.53
P-4	10/21/2016	12.16	5.55	6.61
P-4	11/18/2016	12.16	4.51	7.65
P-4	12/19/2016	12.16	7.17	4.99
P-4	1/17/2017	12.16	6.98	5.18
P-4	2/24/2017	12.16	7.12	5.04
P-4	3/27/2017	12.16	7.71	4.45
P-4	4/17/2017	12.16	7.48	4.68
P-4	5/22/2017	12.16	7.22	4.94
P-4	6/20/2017	12.16	4.72	7.44
P-4	7/28/2017	12.16	4.35	7.81
P-4	8/25/2017	12.16	4.61	7.55
P-4	9/11/2017	12.16	4.94	7.22
P-4	10/16/2017	12.16	4.75	7.41
P-4	11/15/2017	12.16	4.74	7.42
P-4	12/11/2017	12.16	7.53	4.63
P-4	1/22/2018	12.16	6.84	5.32
P-4	2/14/2018	12.16	7.22	4.94
P-4	3/19/2018	12.16	6.95	5.21

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
P-9	8/24/2015	12.17	5.07	7.10
P-9	9/21/2015	12.17	4.90	7.27
P-9	10/20/2015	12.17	5.18	6.99
P-9	11/16/2015	12.17	5.08	7.09
P-9	12/14/2015	12.17	3.92	8.25
P-9	1/14/2016	12.17	7.49	4.68
P-9	2/16/2016	12.17	7.53	4.64
P-9	3/14/2016	12.17	7.66	4.51
P-9	4/25/2016	12.17	6.49	5.68
P-9	5/16/2016	12.17	5.02	7.15
P-9	6/17/2016	12.17	5.09	7.08
P-9	7/20/2016	12.17	5.34	6.83
P-9	8/20/2016	12.17	5.70	6.47
P-9	9/19/2016	12.17	6.06	6.11
P-9	10/21/2016	12.17	6.01	6.16
P-9	11/18/2016	12.17	4.91	7.26
P-9	12/19/2016	12.17	7.81	4.36
P-9	1/17/2017	12.17	7.68	4.49
P-9	2/24/2017	12.17	7.82	4.35
P-9	3/27/2017	12.17	8.00	4.17
P-9	4/17/2017	12.17	8.16	4.01
P-9	5/22/2017	12.17	7.59	4.58
P-9	6/20/2017	12.17	5.03	7.14
P-9	7/28/2017	12.17	4.77	7.40
P-9	8/25/2017	12.17	4.95	7.22
P-9	9/11/2017	12.17	5.37	6.80
P-9	10/16/2017	12.17	5.24	6.93
P-9	11/15/2017	12.17	5.20	6.97
P-9	12/11/2017	12.17	8.26	3.91
P-9	1/22/2018	12.17	7.44	4.73
P-9	2/14/2018	12.17	7.15	5.02
P-9	3/19/2018	12.17	7.53	4.64
SMBRP-2	8/24/2015	13.13	6.04	7.09
SMBRP-2	9/21/2015	13.13	5.91	7.22
SMBRP-2	10/20/2015	13.13	6.16	6.97
SMBRP-2	11/16/2015	13.13	6.09	7.04
SMBRP-2	12/14/2015	13.13	4.84	8.29
SMBRP-2	1/14/2016	13.13	8.80	4.33
SMBRP-2	2/16/2016	13.13	8.54	4.59
SMBRP-2	3/14/2016	13.13	8.58	4.55
SMBRP-2	4/25/2016	13.13	7.59	5.54
SMBRP-2	5/16/2016	13.13	6.07	7.06
SMBRP-2	6/17/2016	13.13	6.14	6.99
SMBRP-2	7/20/2016	13.13	6.36	6.77
SMBRP-2	8/20/2016	13.13	6.73	6.40
SMBRP-2	9/19/2016	13.13	7.11	6.02
SMBRP-2	10/21/2016	13.13	6.98	6.15
SMBRP-2	11/18/2016	13.13	5.94	7.19
SMBRP-2	12/19/2016	13.13	8.87	4.26
SMBRP-2	1/17/2017	13.13	8.64	4.49
SMBRP-2	2/24/2017	13.13	8.94	4.19
SMBRP-2	3/27/2017	13.13	9.25	3.88
SMBRP-2	4/17/2017	13.13	9.15	3.98
SMBRP-2	5/22/2017	13.13	8.68	4.45
SMBRP-2	6/20/2017	13.13	5.78	7.35
SMBRP-2	7/28/2017	13.13	5.58	7.55
SMBRP-2	8/25/2017	13.13	5.74	7.39
SMBRP-2	9/11/2017	13.13	6.17	6.96
SMBRP-2	10/16/2017	13.13	6.22	6.91
SMBRP-2	11/15/2017	13.13	6.13	7.00
SMBRP-2	12/11/2017	13.13	9.22	3.91
SMBRP-2	1/22/2018	13.13	8.53	4.60
SMBRP-2	2/14/2018	13.13	8.60	4.53
SMBRP-2	3/19/2018	13.13	8.70	4.43

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
SMBRP-6	8/24/2015	26.88	16.49	10.39
SMBRP-6	9/21/2015	26.88	15.95	10.93
SMBRP-6	10/20/2015	26.88	16.66	10.22
SMBRP-6	11/16/2015	26.88	16.47	10.41
SMBRP-6	12/14/2015	26.88	14.78	12.10
SMBRP-6	1/14/2016	26.88	14.68	12.20
SMBRP-6	2/16/2016	26.88	15.22	11.66
SMBRP-6	3/14/2016	26.88	14.43	12.45
SMBRP-6	4/25/2016	26.88	16.60	10.28
SMBRP-6	5/16/2016	26.88	16.81	10.07
SMBRP-6	6/17/2016	26.88	17.87	9.01
SMBRP-6	7/20/2016	26.88	18.52	8.36
SMBRP-6	8/20/2016	26.88	19.01	7.87
SMBRP-6	9/19/2016	26.88	19.61	7.27
SMBRP-6	10/21/2016	26.88	18.13	8.75
SMBRP-6	11/18/2016	26.88	16.12	10.76
SMBRP-6	12/19/2016	26.88	14.46	12.42
SMBRP-6	1/17/2017	26.88	14.14	12.74
SMBRP-6	2/24/2017	26.88	13.14	13.74
SMBRP-6	3/27/2017	26.88	15.01	11.87
SMBRP-6	4/17/2017	26.88	14.79	12.09
SMBRP-6	5/22/2017	26.88	15.44	11.44
SMBRP-6	6/20/2017	26.88	15.87	11.01
SMBRP-6	7/28/2017	26.88	16.32	10.56
SMBRP-6	8/25/2017	26.88	16.39	10.49
SMBRP-6	9/11/2017	26.88	16.48	10.40
SMBRP-6	10/16/2017	26.88	16.27	10.61
SMBRP-6	11/15/2017	26.88	16.40	10.48
SMBRP-6	12/11/2017	26.88	16.40	10.48
SMBRP-6	1/22/2018	26.88	14.78	12.10
SMBRP-6	2/14/2018	26.88	14.89	11.99
SMBRP-6	3/19/2018	26.88	14.32	12.56
SMBRP-7B	8/24/2015	18.99	10.69	8.30
SMBRP-7B	9/21/2015	18.99	10.62	8.37
SMBRP-7B	10/20/2015	18.99	10.77	8.22
SMBRP-7B	11/16/2015	18.99	10.78	8.21
SMBRP-7B	12/14/2015	18.99	10.60	8.39
SMBRP-7B	1/14/2016	18.99	10.83	8.16
SMBRP-7B	2/16/2016	18.99	11.08	7.91
SMBRP-7B	3/14/2016	18.99	10.84	8.15
SMBRP-7B	4/25/2016	18.99	11.23	7.76
SMBRP-7B	5/16/2016	18.99	11.04	7.95
SMBRP-7B	6/17/2016	18.99	11.08	7.91
SMBRP-7B	7/20/2016	18.99	11.31	7.68
SMBRP-7B	8/20/2016	18.99	11.54	7.45
SMBRP-7B	9/19/2016	18.99	11.68	7.31
SMBRP-7B	10/21/2016	18.99	11.81	7.18
SMBRP-7B	11/18/2016	18.99	11.49	7.50
SMBRP-7B	12/19/2016	18.99	11.33	7.66
SMBRP-7B	1/17/2017	18.99	10.18	8.81
SMBRP-7B	2/24/2017	18.99	8.13	10.86
SMBRP-7B	3/27/2017	18.99	9.68	9.31
SMBRP-7B	4/17/2017	18.99	9.90	9.09
SMBRP-7B	5/22/2017	18.99	10.51	8.48
SMBRP-7B	6/20/2017	18.99	10.71	8.28
SMBRP-7B	7/28/2017	18.99	10.99	8.00
SMBRP-7B	8/25/2017	18.99	11.66	7.33
SMBRP-7B	9/11/2017	18.99	11.86	7.13
SMBRP-7B	10/16/2017	18.99	11.12	7.87
SMBRP-7B	11/15/2017	18.99	10.77	8.22
SMBRP-7B	12/11/2017	18.99	11.11	7.88
SMBRP-7B	1/22/2018	18.99	11.18	7.81
SMBRP-7B	2/14/2018	18.99	11.19	7.80
SMBRP-7B	3/19/2018	18.99	10.75	8.24

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
SMBRP-8 (EC-RC-MW01)	8/24/2015	48.69	28.74	19.95
SMBRP-8 (EC-RC-MW01)	9/21/2015	48.69	29.02	19.67
SMBRP-8 (EC-RC-MW01)	10/20/2015	48.69	28.76	19.93
SMBRP-8 (EC-RC-MW01)	11/16/2015	48.69	29.38	19.31
SMBRP-8 (EC-RC-MW01)	12/14/2015	48.69	29.32	19.37
SMBRP-8 (EC-RC-MW01)	1/14/2016	48.69	28.93	19.76
SMBRP-8 (EC-RC-MW01)	2/16/2016	48.69	29.18	19.51
SMBRP-8 (EC-RC-MW01)	3/14/2016	48.69	28.76	19.93
SMBRP-8 (EC-RC-MW01)	4/25/2016	48.69	29.40	19.29
SMBRP-8 (EC-RC-MW01)	5/16/2016	48.69	29.18	19.51
SMBRP-8 (EC-RC-MW01)	6/17/2016	48.69	29.38	19.31
SMBRP-8 (EC-RC-MW01)	7/20/2016	48.69	29.73	18.96
SMBRP-8 (EC-RC-MW01)	8/20/2016	48.69	30.02	18.67
SMBRP-8 (EC-RC-MW01)	9/19/2016	48.69	30.64	18.05
SMBRP-8 (EC-RC-MW01)	10/21/2016	48.69	31.02	17.67
SMBRP-8 (EC-RC-MW01)	11/18/2016	48.69	31.16	17.53
SMBRP-8 (EC-RC-MW01)	12/19/2016	48.69	30.83	17.86
SMBRP-8 (EC-RC-MW01)	1/17/2017	48.69	29.49	19.20
SMBRP-8 (EC-RC-MW01)	2/24/2017	48.69	26.78	21.91
SMBRP-8 (EC-RC-MW01)	3/27/2017	48.69	25.21	23.48
SMBRP-8 (EC-RC-MW01)	4/17/2017	48.69	24.34	24.35
SMBRP-8 (EC-RC-MW01)	5/22/2017	48.69	23.31	25.38
SMBRP-8 (EC-RC-MW01)	6/20/2017	48.69	23.54	25.15
SMBRP-8 (EC-RC-MW01)	7/28/2017	48.69	24.25	24.44
SMBRP-8 (EC-RC-MW01)	8/25/2017	48.69	24.98	23.71
SMBRP-8 (EC-RC-MW01)	9/11/2017	48.69	25.30	23.39
SMBRP-8 (EC-RC-MW01)	10/16/2017	48.69	26.10	22.59
SMBRP-8 (EC-RC-MW01)	11/15/2017	48.69	26.56	22.13
SMBRP-8 (EC-RC-MW01)	12/11/2017	48.69	27.02	21.67
SMBRP-8 (EC-RC-MW01)	1/22/2018	48.69	27.44	21.25
SMBRP-8 (EC-RC-MW01)	2/14/2018	48.69	27.52	21.17
SMBRP-8 (EC-RC-MW01)	3/19/2018	48.69	27.34	21.35
SMBRP-9	8/24/2015	50.32	38.24	12.08
SMBRP-9	9/21/2015	50.32	38.46	11.86
SMBRP-9	10/20/2015	50.32	38.62	11.70
SMBRP-9	11/16/2015	50.32	N/A	-
SMBRP-9	12/14/2015	50.32	38.86	11.46
SMBRP-9	1/14/2016	50.32	38.95	11.37
SMBRP-9	2/16/2016	50.32	39.03	11.29
SMBRP-9	3/14/2016	50.32	38.97	11.35
SMBRP-9	4/25/2016	50.32	38.82	11.50
SMBRP-9	5/16/2016	50.32	38.82	11.50
SMBRP-9	6/17/2016	50.32	38.86	11.46
SMBRP-9	7/20/2016	50.32	39.06	11.26
SMBRP-9	8/20/2016	50.32	39.17	11.15
SMBRP-9	9/19/2016	50.32	39.33	10.99
SMBRP-9	10/21/2016	50.32	39.55	10.77
SMBRP-9	11/18/2016	50.32	39.67	10.65
SMBRP-9	12/19/2016	50.32	39.79	10.53
SMBRP-9	1/17/2017	50.32	39.82	10.50
SMBRP-9	2/24/2017	50.32	38.75	11.57
SMBRP-9	3/27/2017	50.32	37.59	12.73
SMBRP-9	4/17/2017	50.32	36.88	13.44
SMBRP-9	5/22/2017	50.32	35.82	14.50
SMBRP-9	6/20/2017	50.32	35.41	14.91
SMBRP-9	7/28/2017	50.32	35.13	15.19
SMBRP-9	8/25/2017	50.32	35.18	15.14
SMBRP-9	9/11/2017	50.32	35.48	14.84
SMBRP-9	10/16/2017	50.32	35.86	14.46
SMBRP-9	11/15/2017	50.32	36.24	14.08
SMBRP-9	12/11/2017	50.32	36.48	13.84
SMBRP-9	1/22/2018	50.32	36.94	13.38
SMBRP-9	2/14/2018	50.32	37.01	13.31
SMBRP-9	3/19/2018	50.32	36.88	13.44

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
SMBRP-10C	8/24/2015	16.25	7.37	8.88
SMBRP-10C	9/21/2015	16.25	7.64	8.61
SMBRP-10C	10/20/2015	16.25	7.96	8.29
SMBRP-10C	11/16/2015	16.25	8.16	8.09
SMBRP-10C	12/14/2015	16.25	8.06	8.19
SMBRP-10C	1/14/2016	16.25	6.11	10.14
SMBRP-10C	2/16/2016	16.25	6.57	9.68
SMBRP-10C	3/14/2016	16.25	4.80	11.45
SMBRP-10C	4/25/2016	16.25	6.59	9.66
SMBRP-10C	5/16/2016	16.25	6.86	9.39
SMBRP-10C	6/17/2016	16.25	6.90	9.35
SMBRP-10C	7/20/2016	16.25	7.72	8.53
SMBRP-10C	8/20/2016	16.25	8.12	8.13
SMBRP-10C	9/19/2016	16.25	8.54	7.71
SMBRP-10C	10/21/2016	16.25	8.78	7.47
SMBRP-10C	11/18/2016	16.25	8.89	7.36
SMBRP-10C	12/19/2016	16.25	7.95	8.30
SMBRP-10C	1/17/2017	16.25	2.72	13.53
SMBRP-10C	2/24/2017	16.25	0.99	15.26
SMBRP-10C	3/27/2017	16.25	2.06	14.19
SMBRP-10C	4/17/2017	16.25	3.97	12.28
SMBRP-10C	5/22/2017	16.25	5.52	10.73
SMBRP-10C	6/20/2017	16.25	6.22	10.03
SMBRP-10C	7/28/2017	16.25	6.89	9.36
SMBRP-10C	8/25/2017	16.25	7.28	8.97
SMBRP-10C	9/11/2017	16.25	7.51	8.74
SMBRP-10C	10/16/2017	16.25	7.37	8.88
SMBRP-10C	11/15/2017	16.25	7.38	8.87
SMBRP-10C	12/11/2017	16.25	7.43	8.82
SMBRP-10C	1/22/2018	16.25	6.82	9.43
SMBRP-10C	2/14/2018	16.25	6.95	9.30
SMBRP-10C	3/19/2018	16.25	5.71	10.54
SMBRP-12	8/24/2015	12.62	7.52	5.10
SMBRP-12	9/21/2015	12.62	6.91	5.71
SMBRP-12	10/20/2015	12.62	6.72	5.90
SMBRP-12	11/16/2015	12.62	6.75	5.87
SMBRP-12	12/14/2015	12.62	6.42	6.20
SMBRP-12	1/14/2016	12.62	6.95	5.67
SMBRP-12	2/16/2016	12.62	6.85	5.77
SMBRP-12	3/14/2016	12.62	6.09	6.53
SMBRP-12	4/25/2016	12.62	6.76	5.86
SMBRP-12	5/16/2016	12.62	6.40	6.22
SMBRP-12	6/17/2016	12.62	5.39	7.23
SMBRP-12	7/20/2016	12.62	6.05	6.57
SMBRP-12	8/20/2016	12.62	6.85	5.77
SMBRP-12	9/19/2016	12.62	6.44	6.18
SMBRP-12	10/21/2016	12.62	8.09	4.53
SMBRP-12	11/18/2016	12.62	6.52	6.10
SMBRP-12	12/19/2016	12.62	7.16	5.46
SMBRP-12	1/17/2017	12.62	6.48	6.14
SMBRP-12	2/24/2017	12.62	7.61	5.01
SMBRP-12	3/27/2017	12.62	6.96	5.66
SMBRP-12	4/17/2017	12.62	7.29	5.33
SMBRP-12	5/22/2017	12.62	7.63	4.99
SMBRP-12	6/20/2017	12.62	7.19	5.43
SMBRP-12	7/28/2017	12.62	6.68	5.94
SMBRP-12	8/25/2017	12.62	6.76	5.86
SMBRP-12	9/11/2017	12.62	7.02	5.60
SMBRP-12	10/16/2017	12.62	6.88	5.74
SMBRP-12	11/15/2017	12.62	7.08	5.54
SMBRP-12	12/11/2017	12.62	7.17	5.45
SMBRP-12	1/22/2018	12.62	7.17	5.45
SMBRP-12	2/14/2018	12.62	6.36	6.26
SMBRP-12	3/19/2018	12.62	6.32	6.30

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
SMBRP-13	8/24/2015	13.58	8.32	5.26
SMBRP-13	9/21/2015	13.58	7.98	5.60
SMBRP-13	10/20/2015	13.58	8.20	5.38
SMBRP-13	11/16/2015	13.58	7.87	5.71
SMBRP-13	12/14/2015	13.58	6.85	6.73
SMBRP-13	1/14/2016	13.58	8.24	5.34
SMBRP-13	2/16/2016	13.58	8.00	5.58
SMBRP-13	3/14/2016	13.58	7.61	5.97
SMBRP-13	4/25/2016	13.58	7.66	5.92
SMBRP-13	5/16/2016	13.58	6.92	6.66
SMBRP-13	6/17/2016	13.58	7.52	6.06
SMBRP-13	7/20/2016	13.58	8.30	5.28
SMBRP-13	8/20/2016	13.58	8.03	5.55
SMBRP-13	9/19/2016	13.58	7.45	6.13
SMBRP-13	10/21/2016	13.58	8.33	5.25
SMBRP-13	11/18/2016	13.58	7.14	6.44
SMBRP-13	12/19/2016	13.58	8.34	5.24
SMBRP-13	1/17/2017	13.58	7.48	6.10
SMBRP-13	2/24/2017	13.58	9.32	4.26
SMBRP-13	3/27/2017	13.58	7.83	5.75
SMBRP-13	4/17/2017	13.58	8.55	5.03
SMBRP-13	5/22/2017	13.58	8.81	4.77
SMBRP-13	6/20/2017	13.58	7.78	5.80
SMBRP-13	7/28/2017	13.58	8.01	5.57
SMBRP-13	8/25/2017	13.58	8.04	5.54
SMBRP-13	9/11/2017	13.58	8.42	5.16
SMBRP-13	10/16/2017	13.58	8.05	5.53
SMBRP-13	11/15/2017	13.58	8.20	5.38
SMBRP-13	12/11/2017	13.58	9.00	4.58
SMBRP-13	1/22/2018	13.58	8.46	5.12
SMBRP-13	2/14/2018	13.58	7.85	5.73
SMBRP-13	3/19/2018	13.58	8.53	5.05
SMBRP-15B	8/24/2015	16.77	dry	-
SMBRP-15B	9/21/2015	16.77	dry	-
SMBRP-15B	10/20/2015	16.77	dry	-
SMBRP-15B	11/16/2015	16.77	dry	-
SMBRP-15B	12/14/2015	16.77	dry	-
SMBRP-15B	1/14/2016	16.77	dry	-
SMBRP-15B	2/16/2016	16.77	dry	-
SMBRP-15B	3/14/2016	16.77	dry	-
SMBRP-15B	4/25/2016	16.77	dry	-
SMBRP-15B	5/16/2016	16.77	dry	-
SMBRP-15B	6/17/2016	16.77	dry	-
SMBRP-15B	7/20/2016	16.77	dry	-
SMBRP-15B	8/20/2016	16.77	dry	-
SMBRP-15B	9/19/2016	16.77	dry	-
SMBRP-15B	10/21/2016	16.77	dry	-
SMBRP-15B	11/18/2016	16.77	dry	-
SMBRP-15B	12/19/2016	16.77	dry	-
SMBRP-15B	1/17/2017	16.77	dry	-
SMBRP-15B	2/24/2017	16.77	dry	-
SMBRP-15B	3/27/2017	16.77	dry	-
SMBRP-15B	4/17/2017	16.77	dry	-
SMBRP-15B	5/22/2017	16.77	dry	-
SMBRP-15B	6/20/2017	16.77	dry	-
SMBRP-15B	7/28/2017	16.77	dry	-
SMBRP-15B	8/25/2017	16.77	dry	-
SMBRP-15B	9/11/2017	16.77	dry	-
SMBRP-15B	10/16/2017	16.77	dry	-
SMBRP-15B	11/15/2017	16.77	dry	-
SMBRP-15B	12/11/2017	16.77	dry	-
SMBRP-15B	1/22/2018	16.77	dry	-
SMBRP-15B	2/14/2018	16.77	dry	-
SMBRP-15B	3/19/2018	16.77	dry	-

TABLE 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
SMBRP-16	8/24/2015	14.50	4.95	9.55
SMBRP-16	9/21/2015	14.50	4.96	9.54
SMBRP-16	10/20/2015	14.50	5.34	9.16
SMBRP-16	11/16/2015	14.50	5.55	8.95
SMBRP-16	12/14/2015	14.50	5.59	8.91
SMBRP-16	1/14/2016	14.50	3.79	10.71
SMBRP-16	2/16/2016	14.50	4.60	9.90
SMBRP-16	3/14/2016	14.50	5.27	9.23
SMBRP-16	4/25/2016	14.50	4.65	9.85
SMBRP-16	5/16/2016	14.50	4.92	9.58
SMBRP-16	6/17/2016	14.50	5.15	9.35
SMBRP-16	7/20/2016	14.50	5.49	9.01
SMBRP-16	8/20/2016	14.50	5.72	8.78
SMBRP-16	9/19/2016	14.50	5.92	8.58
SMBRP-16	10/21/2016	14.50	6.18	8.32
SMBRP-16	11/18/2016	14.50	6.02	8.48
SMBRP-16	12/19/2016	14.50	5.23	9.27
SMBRP-16	1/17/2017	14.50	2.54	11.96
SMBRP-16	2/24/2017	14.50	0.51	13.99
SMBRP-16	3/27/2017	14.50	2.61	11.89
SMBRP-16	4/17/2017	14.50	4.28	10.22
SMBRP-16	5/22/2017	14.50	N/A	-
SMBRP-16	6/20/2017	14.50	N/A	-
SMBRP-16	7/28/2017	14.50	6.42	8.08
SMBRP-16	8/25/2017	14.50	6.63	7.87
SMBRP-16	9/11/2017	14.50	6.51	7.99
SMBRP-16	10/16/2017	14.50	4.84	9.66
SMBRP-16	11/15/2017	14.50	4.47	10.03
SMBRP-16	12/11/2017	14.50	4.80	9.70
SMBRP-16	1/22/2018	14.50	8.25	6.25
SMBRP-16	2/14/2018	14.50	4.83	9.67
SMBRP-16	3/19/2018	14.50	3.45	11.05

TABLE 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW01	8/24/2015	17.90	10.22	7.68
MCWP-MW01	9/21/2015	17.90	9.71	8.19
MCWP-MW01	10/20/2015	17.90	10.00	7.90
MCWP-MW01	11/16/2015	17.90	9.91	7.99
MCWP-MW01	12/14/2015	17.90	9.23	8.67
MCWP-MW01	1/14/2016	17.90	10.45	7.45
MCWP-MW01	2/16/2016	17.90	11.02	6.88
MCWP-MW01	3/14/2016	17.90	10.53	7.37
MCWP-MW01	4/25/2016	17.90	10.89	7.01
MCWP-MW01	5/16/2016	17.90	10.70	7.20
MCWP-MW01	6/17/2016	17.90	10.75	7.15
MCWP-MW01	7/20/2016	17.90	11.09	6.81
MCWP-MW01	8/20/2016	17.90	11.30	6.60
MCWP-MW01	9/19/2016	17.90	11.13	6.77
MCWP-MW01	10/21/2016	17.90	11.19	6.71
MCWP-MW01	11/18/2016	17.90	9.94	7.96
MCWP-MW01	12/19/2016	17.90	10.56	7.34
MCWP-MW01	1/17/2017	17.90	10.17	7.73
MCWP-MW01	2/24/2017	17.90	10.68	7.22
MCWP-MW01	3/27/2017	17.90	11.47	6.43
MCWP-MW01	4/17/2017	17.90	11.33	6.57
MCWP-MW01	5/22/2017	17.90	11.83	6.07
MCWP-MW01	6/20/2017	17.90	10.47	7.43
MCWP-MW01	7/28/2017	17.90	10.45	7.45
MCWP-MW01	8/25/2017	17.90	10.29	7.61
MCWP-MW01	9/11/2017	17.90	10.60	7.30
MCWP-MW01	10/16/2017	17.90	10.06	7.84
MCWP-MW01	11/15/2017	17.90	9.99	7.91
MCWP-MW01	12/11/2017	17.90	11.57	6.33
MCWP-MW01	1/22/2018	17.90	10.70	7.20
MCWP-MW01	2/14/2018	17.90	10.49	7.41
MCWP-MW01	3/19/2018	17.90	10.33	7.57
MCWP-MW02	8/24/2015	18.06	10.39	7.67
MCWP-MW02	9/21/2015	18.06	9.92	8.14
MCWP-MW02	10/20/2015	18.06	10.25	7.81
MCWP-MW02	11/16/2015	18.06	10.16	7.90
MCWP-MW02	12/14/2015	18.06	9.14	8.92
MCWP-MW02	1/14/2016	18.06	10.68	7.38
MCWP-MW02	2/16/2016	18.06	11.13	6.93
MCWP-MW02	3/14/2016	18.06	10.72	7.34
MCWP-MW02	4/25/2016	18.06	11.08	6.98
MCWP-MW02	5/16/2016	18.06	10.55	7.51
MCWP-MW02	6/17/2016	18.06	10.82	7.24
MCWP-MW02	7/20/2016	18.06	11.10	6.96
MCWP-MW02	8/20/2016	18.06	11.35	6.71
MCWP-MW02	9/19/2016	18.06	11.59	6.47
MCWP-MW02	10/21/2016	18.06	11.41	6.65
MCWP-MW02	11/18/2016	18.06	10.16	7.90
MCWP-MW02	12/19/2016	18.06	10.82	7.24
MCWP-MW02	1/17/2017	18.06	10.44	7.62
MCWP-MW02	2/24/2017	18.06	10.68	7.38
MCWP-MW02	3/27/2017	18.06	11.96	6.10
MCWP-MW02	4/17/2017	18.06	11.35	6.71
MCWP-MW02	5/22/2017	18.06	12.03	6.03
MCWP-MW02	6/20/2017	18.06	10.74	7.32
MCWP-MW02	7/28/2017	18.06	10.56	7.50
MCWP-MW02	8/25/2017	18.06	10.62	7.44
MCWP-MW02	9/11/2017	18.06	10.79	7.27
MCWP-MW02	10/16/2017	18.06	10.28	7.78
MCWP-MW02	11/15/2017	18.06	10.49	7.57
MCWP-MW02	12/11/2017	18.06	8.65	9.41
MCWP-MW02	1/22/2018	18.06	10.95	7.11
MCWP-MW02	2/14/2018	18.06	10.71	7.35
MCWP-MW02	3/19/2018	18.06	10.64	7.42

TABLE 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW03	9/21/2015	15.31	7.52	7.79
MCWP-MW03	10/20/2015	15.31	7.78	7.53
MCWP-MW03	11/16/2015	15.31	7.34	7.97
MCWP-MW03	12/14/2015	15.31	6.75	8.56
MCWP-MW03	1/14/2016	15.31	8.38	6.93
MCWP-MW03	2/16/2016	15.31	8.43	6.88
MCWP-MW03	3/14/2016	15.31	8.05	7.26
MCWP-MW03	4/25/2016	15.31	8.63	6.68
MCWP-MW03	5/16/2016	15.31	8.35	6.96
MCWP-MW03	6/17/2016	15.31	8.50	6.81
MCWP-MW03	7/20/2016	15.31	8.30	7.01
MCWP-MW03	8/20/2016	15.31	8.87	6.44
MCWP-MW03	9/19/2016	15.31	8.23	7.08
MCWP-MW03	10/21/2016	15.31	8.94	6.37
MCWP-MW03	11/18/2016	15.31	7.64	7.67
MCWP-MW03	12/19/2016	15.31	8.09	7.22
MCWP-MW03	1/17/2017	15.31	7.63	7.68
MCWP-MW03	2/24/2017	15.31	N/A	-
MCWP-MW03	3/27/2017	15.31	N/A	-
MCWP-MW03	4/17/2017	15.31	N/A	-
MCWP-MW03	5/22/2017	15.31	N/A	-
MCWP-MW03	6/20/2017	15.31	N/A	-
MCWP-MW03	7/28/2017	15.31	8.02	7.29
MCWP-MW03	8/25/2017	15.31	7.58	7.73
MCWP-MW03	9/11/2017	15.31	7.92	7.39
MCWP-MW03	10/16/2017	15.31	7.39	7.92
MCWP-MW03	11/15/2017	15.31	7.70	7.61
MCWP-MW03	12/11/2017	15.31	9.25	6.06
MCWP-MW03	1/22/2018	15.31	8.14	7.17
MCWP-MW03	2/14/2018	15.31	8.47	6.84
MCWP-MW03	3/19/2018	15.31	8.12	7.19
MCWP-MW04D	8/24/2015	15.43	9.35	6.08
MCWP-MW04D	9/21/2015	15.43	8.84	6.59
MCWP-MW04D	10/20/2015	15.43	9.16	6.27
MCWP-MW04D	11/16/2015	15.43	9.13	6.30
MCWP-MW04D	12/14/2015	15.43	8.39	7.04
MCWP-MW04D	1/14/2016	15.43	9.59	5.84
MCWP-MW04D	2/16/2016	15.43	10.24	5.19
MCWP-MW04D	3/14/2016	15.43	9.69	5.74
MCWP-MW04D	4/25/2016	15.43	10.07	5.36
MCWP-MW04D	5/16/2016	15.43	9.83	5.60
MCWP-MW04D	6/17/2016	15.43	9.97	5.46
MCWP-MW04D	7/20/2016	15.43	10.22	5.21
MCWP-MW04D	8/20/2016	15.43	10.33	5.10
MCWP-MW04D	9/19/2016	15.43	10.32	5.11
MCWP-MW04D	10/21/2016	15.43	10.40	5.03
MCWP-MW04D	11/18/2016	15.43	9.12	6.31
MCWP-MW04D	12/19/2016	15.43	9.68	5.75
MCWP-MW04D	1/17/2017	15.43	9.34	6.09
MCWP-MW04D	2/24/2017	15.43	9.83	5.60
MCWP-MW04D	3/27/2017	15.43	10.61	4.82
MCWP-MW04D	4/17/2017	15.43	10.51	4.92
MCWP-MW04D	5/22/2017	15.43	10.99	4.44
MCWP-MW04D	6/20/2017	15.43	9.62	5.81
MCWP-MW04D	7/28/2017	15.43	9.62	5.81
MCWP-MW04D	8/25/2017	15.43	9.46	5.97
MCWP-MW04D	9/11/2017	15.43	9.72	5.71
MCWP-MW04D	10/16/2017	15.43	9.24	6.19
MCWP-MW04D	11/15/2017	15.43	9.13	6.30
MCWP-MW04D	12/11/2017	15.43	10.78	4.65
MCWP-MW04D	1/22/2018	15.43	9.84	5.59
MCWP-MW04D	2/14/2018	15.43	9.59	5.84
MCWP-MW04D	3/19/2018	15.43	9.56	5.87

TABLE 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW05	8/24/2015	13.92	7.62	6.30
MCWP-MW05	9/21/2015	13.92	7.30	6.62
MCWP-MW05	10/20/2015	13.92	7.47	6.45
MCWP-MW05	11/16/2015	13.92	7.42	6.50
MCWP-MW05	12/14/2015	13.92	6.39	7.53
MCWP-MW05	1/14/2016	13.92	7.82	6.10
MCWP-MW05	2/16/2016	13.92	8.37	5.55
MCWP-MW05	3/14/2016	13.92	7.96	5.96
MCWP-MW05	4/25/2016	13.92	8.27	5.65
MCWP-MW05	5/16/2016	13.92	7.78	6.14
MCWP-MW05	6/17/2016	13.92	8.05	5.87
MCWP-MW05	7/20/2016	13.92	8.41	5.51
MCWP-MW05	8/20/2016	13.92	8.69	5.23
MCWP-MW05	9/19/2016	13.92	8.98	4.94
MCWP-MW05	10/21/2016	13.92	N/A	-
MCWP-MW05	11/18/2016	13.92	N/A	-
MCWP-MW05	12/19/2016	13.92	N/A	-
MCWP-MW05	1/17/2017	13.92	N/A	-
MCWP-MW05	2/24/2017	13.92	N/A	-
MCWP-MW05	3/27/2017	13.92	8.39	5.53
MCWP-MW05	4/17/2017	13.92	8.48	5.44
MCWP-MW05	5/22/2017	13.92	N/A	-
MCWP-MW05	6/20/2017	13.92	N/A	-
MCWP-MW05	7/28/2017	13.92	N/A	-
MCWP-MW05	8/25/2017	13.92	N/A	-
MCWP-MW05	9/11/2017	13.92	8.15	5.77
MCWP-MW05	10/16/2017	13.92	7.48	6.44
MCWP-MW05	11/15/2017	13.92	7.41	6.51
MCWP-MW05	12/11/2017	13.92	8.78	5.14
MCWP-MW05	1/22/2018	13.92	8.04	5.88
MCWP-MW05	2/14/2018	13.92	8.10	5.82
MCWP-MW05	3/19/2018	13.92	7.74	6.18
MCWP-MW06	8/24/2015	16.05	9.87	6.18
MCWP-MW06	9/21/2015	16.05	9.40	6.65
MCWP-MW06	10/20/2015	16.05	9.71	6.34
MCWP-MW06	11/16/2015	16.05	9.61	6.44
MCWP-MW06	12/14/2015	16.05	8.64	7.41
MCWP-MW06	1/14/2016	16.05	10.12	5.93
MCWP-MW06	2/16/2016	16.05	10.58	5.47
MCWP-MW06	3/14/2016	16.05	10.14	5.91
MCWP-MW06	4/25/2016	16.05	10.49	5.56
MCWP-MW06	5/16/2016	16.05	10.06	5.99
MCWP-MW06	6/17/2016	16.05	10.27	5.78
MCWP-MW06	7/20/2016	16.05	10.60	5.45
MCWP-MW06	8/20/2016	16.05	10.86	5.19
MCWP-MW06	9/19/2016	16.05	11.07	4.98
MCWP-MW06	10/21/2016	16.05	10.90	5.15
MCWP-MW06	11/18/2016	16.05	9.62	6.43
MCWP-MW06	12/19/2016	16.05	10.20	5.85
MCWP-MW06	1/17/2017	16.05	9.87	6.18
MCWP-MW06	2/24/2017	16.05	10.05	6.00
MCWP-MW06	3/27/2017	16.05	11.41	4.64
MCWP-MW06	4/17/2017	16.05	10.81	5.24
MCWP-MW06	5/22/2017	16.05	11.43	4.62
MCWP-MW06	6/20/2017	16.05	10.16	5.89
MCWP-MW06	7/28/2017	16.05	10.03	6.02
MCWP-MW06	8/25/2017	16.05	10.06	5.99
MCWP-MW06	9/11/2017	16.05	10.41	5.64
MCWP-MW06	10/16/2017	16.05	9.72	6.33
MCWP-MW06	11/15/2017	16.05	9.91	6.14
MCWP-MW06	12/11/2017	16.05	11.10	4.95
MCWP-MW06	1/22/2018	16.05	10.34	5.71
MCWP-MW06	2/14/2018	16.05	10.19	5.86
MCWP-MW06	3/19/2018	16.05	9.86	6.19

TABLE 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW07D	8/24/2015	13.21	7.51	5.70
MCWP-MW07D	9/21/2015	13.21	7.44	5.77
MCWP-MW07D	10/20/2015	13.21	7.67	5.54
MCWP-MW07D	11/16/2015	13.21	7.27	5.94
MCWP-MW07D	12/14/2015	13.21	6.59	6.62
MCWP-MW07D	1/14/2016	13.21	8.32	4.89
MCWP-MW07D	2/16/2016	13.21	8.32	4.89
MCWP-MW07D	3/14/2016	13.21	7.92	5.29
MCWP-MW07D	4/25/2016	13.21	8.47	4.74
MCWP-MW07D	5/16/2016	13.21	8.26	4.95
MCWP-MW07D	6/17/2016	13.21	8.45	4.76
MCWP-MW07D	7/20/2016	13.21	8.18	5.03
MCWP-MW07D	8/20/2016	13.21	8.77	4.44
MCWP-MW07D	9/19/2016	13.21	8.12	5.09
MCWP-MW07D	10/21/2016	13.21	8.81	4.40
MCWP-MW07D	11/18/2016	13.21	7.54	5.67
MCWP-MW07D	12/19/2016	13.21	7.99	5.22
MCWP-MW07D	1/17/2017	13.21	7.52	5.69
MCWP-MW07D	2/24/2017	13.21	N/A	-
MCWP-MW07D	3/27/2017	13.21	N/A	-
MCWP-MW07D	4/17/2017	13.21	N/A	-
MCWP-MW07D	5/22/2017	13.21	N/A	-
MCWP-MW07D	6/20/2017	13.21	N/A	-
MCWP-MW07D	7/28/2017	13.21	7.91	5.30
MCWP-MW07D	8/25/2017	13.21	7.44	5.77
MCWP-MW07D	9/11/2017	13.21	7.91	5.30
MCWP-MW07D	10/16/2017	13.21	7.20	6.01
MCWP-MW07D	11/15/2017	13.21	7.54	5.67
MCWP-MW07D	12/11/2017	13.21	9.12	4.09
MCWP-MW07D	1/22/2018	13.21	8.02	5.19
MCWP-MW07D	2/14/2018	13.21	8.38	4.83
MCWP-MW07D	3/19/2018	13.21	7.83	5.38
MCWP-MW09	8/24/2015	16.30	5.69	10.61
MCWP-MW09	9/21/2015	16.30	5.42	10.88
MCWP-MW09	10/20/2015	16.30	5.68	10.62
MCWP-MW09	11/16/2015	16.30	5.50	10.80
MCWP-MW09	12/14/2015	16.30	4.75	11.55
MCWP-MW09	1/14/2016	16.30	6.37	9.93
MCWP-MW09	2/16/2016	16.30	6.42	9.88
MCWP-MW09	3/14/2016	16.30	6.04	10.26
MCWP-MW09	4/25/2016	16.30	6.38	9.92
MCWP-MW09	5/16/2016	16.30	5.85	10.45
MCWP-MW09	6/17/2016	16.30	5.96	10.34
MCWP-MW09	7/20/2016	16.30	6.44	9.86
MCWP-MW09	8/20/2016	16.30	6.54	9.76
MCWP-MW09	9/19/2016	16.30	6.26	10.04
MCWP-MW09	10/21/2016	16.30	6.71	9.59
MCWP-MW09	11/18/2016	16.30	5.68	10.62
MCWP-MW09	12/19/2016	16.30	6.31	9.99
MCWP-MW09	1/17/2017	16.30	5.79	10.51
MCWP-MW09	2/24/2017	16.30	6.78	9.52
MCWP-MW09	3/27/2017	16.30	7.12	9.18
MCWP-MW09	4/17/2017	16.30	6.83	9.47
MCWP-MW09	5/22/2017	16.30	7.72	8.58
MCWP-MW09	6/20/2017	16.30	6.24	10.06
MCWP-MW09	7/28/2017	16.30	5.76	10.54
MCWP-MW09	8/25/2017	16.30	5.78	10.52
MCWP-MW09	9/11/2017	16.30	5.85	10.45
MCWP-MW09	10/16/2017	16.30	5.90	10.40
MCWP-MW09	11/15/2017	16.30	5.70	10.60
MCWP-MW09	12/11/2017	16.30	7.10	9.20
MCWP-MW09	1/22/2018	16.30	6.31	9.99
MCWP-MW09	2/14/2018	16.30	7.30	9.00
MCWP-MW09	3/19/2018	16.30	7.71	8.59

TABLE 1
Groundwater Elevations

Winter Canyon Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
LAMW-5S	8/24/2015	104.55	53.71	50.84
LAMW-5S	9/21/2015	104.55	53.30	51.25
LAMW-5S	10/20/2015	104.55	53.74	50.81
LAMW-5S	11/16/2015	104.55	53.90	50.65
LAMW-5S	12/14/2015	104.55	53.54	51.01
LAMW-5S	1/14/2016	104.55	54.02	50.53
LAMW-5S	2/16/2016	104.55	53.69	50.86
LAMW-5S	3/14/2016	104.55	53.92	50.63
LAMW-5S	4/25/2016	104.55	53.88	50.67
LAMW-5S	5/16/2016	104.55	53.98	50.57
LAMW-5S	6/17/2016	104.55	53.97	50.58
LAMW-5S	7/20/2016	104.55	54.23	50.32
LAMW-5S	8/20/2016	104.55	54.42	50.13
LAMW-5S	9/19/2016	104.55	54.77	49.78
LAMW-5S	10/21/2016	104.55	55.00	49.55
LAMW-5S	11/18/2016	104.55	54.91	49.64
LAMW-5S	12/19/2016	104.55	53.83	50.72
LAMW-5S	1/17/2017	104.55	53.81	50.74
LAMW-5S	2/24/2017	104.55	50.54	54.01
LAMW-5S	3/27/2017	104.55	48.71	55.84
LAMW-5S	4/17/2017	104.55	48.24	56.31
LAMW-5S	5/22/2017	104.55	48.23	56.32
LAMW-5S	6/20/2017	104.55	48.39	56.16
LAMW-5S	7/28/2017	104.55	49.08	55.47
LAMW-5S	8/25/2017	104.55	49.77	54.78
LAMW-5S	9/11/2017	104.55	49.75	54.80
LAMW-5S	10/16/2017	104.55	50.99	53.56
LAMW-5S	11/15/2017	104.55	51.66	52.89
LAMW-5S	12/11/2017	104.55	52.42	52.13
LAMW-5S	1/22/2018	104.55	53.85	50.70
LAMW-5S	2/14/2018	104.55	54.38	50.17
LAMW-5S	3/19/2018	104.55	54.57	49.98
SMBRP-11	8/24/2015	18.35	8.88	9.47
SMBRP-11	9/21/2015	18.35	8.70	9.65
SMBRP-11	10/20/2015	18.35	8.36	9.99
SMBRP-11	11/16/2015	18.35	8.64	9.71
SMBRP-11	12/14/2015	18.35	8.35	10.00
SMBRP-11	1/14/2016	18.35	8.00	10.35
SMBRP-11	2/16/2016	18.35	8.30	10.05
SMBRP-11	3/14/2016	18.35	7.89	10.46
SMBRP-11	4/25/2016	18.35	8.63	9.72
SMBRP-11	5/16/2016	18.35	8.62	9.73
SMBRP-11	6/17/2016	18.35	8.39	9.96
SMBRP-11	7/20/2016	18.35	8.00	10.35
SMBRP-11	8/20/2016	18.35	8.44	9.91
SMBRP-11	9/19/2016	18.35	8.56	9.79
SMBRP-11	10/21/2016	18.35	8.71	9.64
SMBRP-11	11/18/2016	18.35	8.47	9.88
SMBRP-11	12/19/2016	18.35	8.71	9.64
SMBRP-11	1/17/2017	18.35	7.81	10.54
SMBRP-11	2/24/2017	18.35	7.22	11.13
SMBRP-11	3/27/2017	18.35	7.97	10.38
SMBRP-11	4/17/2017	18.35	8.19	10.16
SMBRP-11	5/22/2017	18.35	8.45	9.90
SMBRP-11	6/20/2017	18.35	8.41	9.94
SMBRP-11	7/28/2017	18.35	8.25	10.10
SMBRP-11	8/25/2017	18.35	8.26	10.09
SMBRP-11	9/11/2017	18.35	8.50	9.85
SMBRP-11	10/16/2017	18.35	8.51	9.84
SMBRP-11	11/15/2017	18.35	8.57	9.78
SMBRP-11	12/11/2017	18.35	8.65	9.70
SMBRP-11	1/22/2018	18.35	8.54	9.81
SMBRP-11	2/14/2018	18.35	8.90	9.45
SMBRP-11	3/19/2018	18.35	8.62	9.73

Notes:

N/A: well not accessible
 '- : no data available
 TOC: top of well casing

ft bTOC: feet below top of well casing
 TOC elevation referenced to NAVD88

TABLE 2
Surface Water Analytical Matrix

Surface Water	Location									
Laboratory Analysis	N-001	N-002	N-003	N-004	L-001	L-002	L-003	L-004	L-005	L-006
Total and Fecal Coliform	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrate as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrite as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ammonia Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organic Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Kjeldahl Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Phosphorous	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes:

✓: Laboratory analysis completed

TABLE 3
Surface Water Analytical Results

Location	Monitoring Depth	Sample ID	Sample Date	Concentration (MPN/100mL)		Concentration (mg/L)						
				Coliform Bacteria Analysis		Inorganic Analysis						
				Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Nitrogen, Organic	Ammonia Nitrogen	Kjeldahl Nitrogen	Total Nitrogen	Phosphorous, Total
Near Shore	Ankle Depth	N-001	9/25/2015	70	46	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.76
			12/1/2015	<1.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.775
			3/18/2016	<1.8	<1.8	0.1	<0.1	0.937	<0.2	0.937	1.97	0.400
			6/16/2016	<1.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.658
			9/23/2016	<1.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.97
			12/20/2016	49	49	0.1	<0.1	<0.5	<0.2	<0.5	0.100	1.01
			3/31/2017	14	6.8	0.2	<0.1	<0.5	<0.2	<0.5	0.200	1.69
			6/19/2017	23	7.8	<0.1	<0.1	0.519	<0.2	0.596	1.12	2.06
			8/29/2017	23	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	2.10
			12/28/2017	2.0	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	<0.1
		4/13/2018	49	2.0	0.1	<0.1	<0.5	<0.2	<0.5	0.100	0.101	
		N-002	9/25/2015	13	13	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.48
			12/1/2015	<1.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.38
			3/18/2016	<1.8	<1.8	0.1	<0.1	<0.5	<0.2	<0.5	0.100	1.42
			6/16/2016	<1.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.03
			9/23/2016	240	6.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.30
			12/20/2016	<1.8	<1.8	0.1	<0.1	<0.5	<0.2	<0.5	0.100	1.35
			3/31/2017	13	<1.8	0.1	<0.1	<0.5	<0.2	<0.5	0.100	0.127
			6/19/2017	<1.8	<1.8	<0.1	<0.1	2.25	<0.2	2.25	4.50	2.03
			8/29/2017	8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	2.14
			12/28/2017	31	17	0.07	<0.1	<0.5	<0.2	<0.5	0.0700	<0.1
		4/13/2018	46	21	0.1	<0.1	<0.5	<0.2	<0.5	0.100	<0.1	
		N-003	9/25/2015	11	4.0	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.347
			12/1/2015	14	14	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.46
			3/18/2016	13	<1.8	0.1	<0.1	0.865	<0.2	0.865	1.83	<0.1
			6/16/2016	<1.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	<0.1
			9/23/2016	2.0	2.0	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.46
			12/20/2016	79	79	0.1	<0.1	<0.5	<0.2	<0.5	0.100	1.31
			3/31/2017	350	33	0.1	<0.1	10.8	<0.2	10.8	21.7	0.467
			6/19/2017	7.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.474
			8/29/2017	7.8	2.0	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.15
			12/28/2017	17	14	<0.1	<0.1	<0.5	<0.2	<0.5	0	<0.1
		4/13/2018	17	17	<0.1	<0.1	<0.5	<0.2	<0.5	0	<0.1	
		N-004	9/25/2015	14	9.3	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.288
			12/1/2015	2.0	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.01
			3/18/2016	2.0	<1.8	0.1	<0.1	<0.5	<0.2	<0.5	0.100	0.648
			6/16/2016	6.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.25
			9/23/2016	4.5	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.29
			12/20/2016	7.8	<1.8	<0.1	<0.1	<0.5	<0.2	<0.5	0	1.29
			3/31/2017	6.8	2.0	<0.1	0.153	<0.5	<0.2	<0.5	0.153	1.87
6/19/2017	7.8		7.8	<0.1	<0.1	0.647	<0.2	0.647	1.29	1.24		
8/29/2017	79		79	<0.1	<0.1	<0.5	<0.2	<0.5	0	<0.1		
12/28/2017	17		17	0.07	<0.1	<0.5	<0.2	<0.5	0.0700	0.044		
4/13/2018	4.5	4.5	0.1	<0.1	<0.5	<0.2	<0.5	0.100	<0.1			

TABLE 3
Surface Water Analytical Results

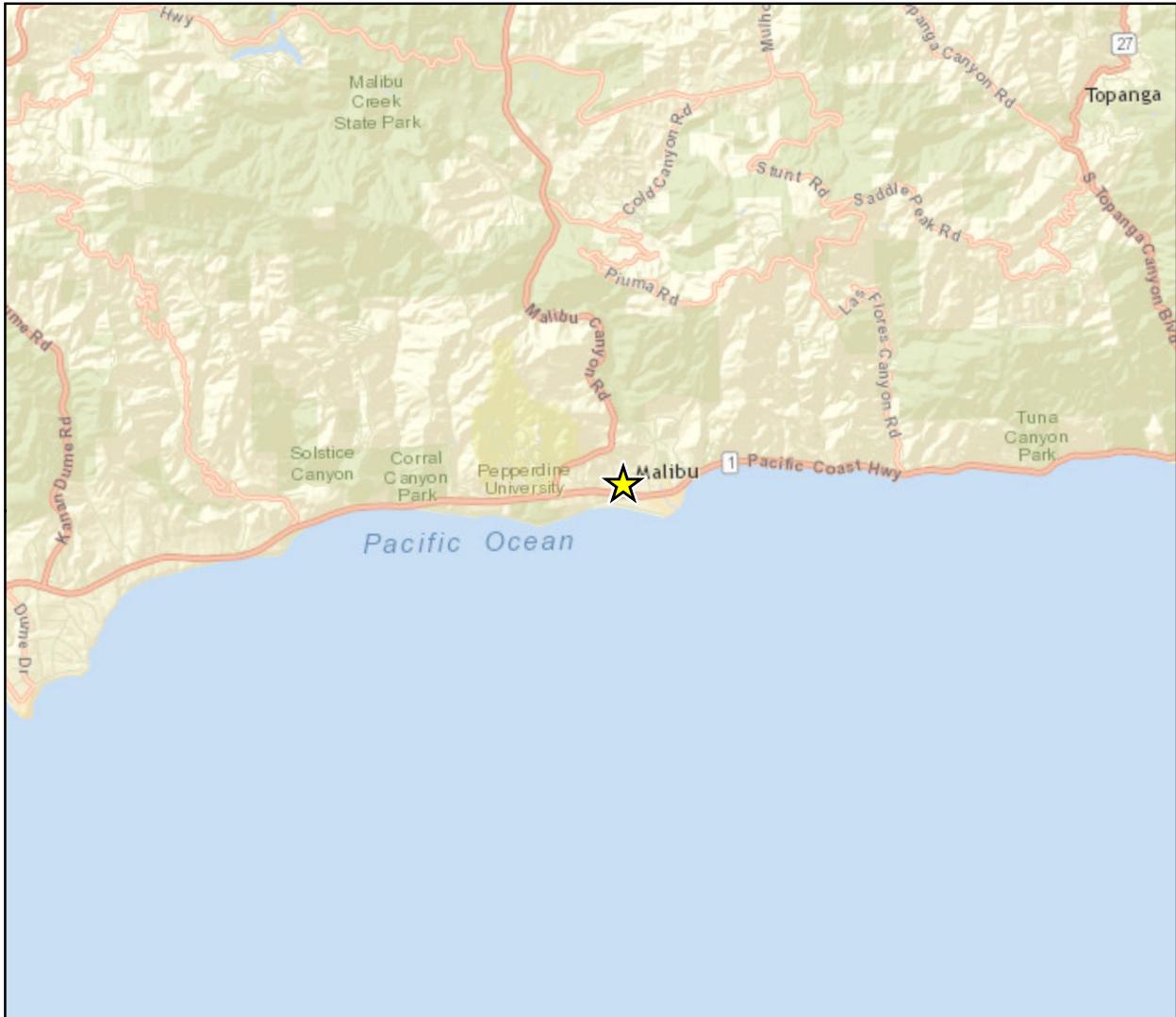
Location	Monitoring Depth	Sample ID	Sample Date	Concentration (MPN/100mL)		Concentration (mg/L)						
				Coliform Bacteria Analysis		Inorganic Analysis						
				Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Nitrogen, Organic	Ammonia Nitrogen	Kjeldahl Nitrogen	Total Nitrogen	Phosphorous, Total
Malibu Lagoon and Creek	1 foot BSW	L-001	9/25/2015	920	49	<0.1	<0.1	2.26	<0.2	2.26	4.52	0.558
			12/1/2015	350	33	<0.1	<0.1	0.837	<0.2	0.837	1.67	0.218
			3/18/2016	350	23	0.3	<0.1	1.99	<0.2	1.99	4.28	0.635
			6/16/2016	350	4.5	<0.1	<0.1	0.696	<0.2	0.696	1.39	0.178
			9/23/2016	540	79	<0.1	<0.1	1.04	<0.2	1.04	2.08	0.153
			12/20/2016	1,600	49	3.2	<0.1	<0.5	<0.2	<0.5	3.20	0.934
			3/31/2017	540	<1.8	1.5	<0.1	1.84	<0.2	1.84	5.18	0.577
			6/19/2017	350	49	0.6	<0.1	0.617	<0.2	0.617	1.83	0.387
			8/29/2017	>1,600	130	0.2	<0.1	0.834	<0.2	0.834	1.87	0.156
			12/28/2017	1,600	70	0.7	<0.1	<0.5	<0.2	<0.5	0.700	0.174
		4/13/2018	>1,600	220	1.7	<0.1	<0.5	<0.2	<0.5	1.70	0.858	
		L-002	9/25/2015	920	49	<0.1	<0.1	1.83	<0.2	1.83	3.66	0.404
			12/1/2015	540	33	<0.1	<0.1	0.591	<0.2	0.591	1.18	0.226
			3/18/2016	280	49	0.6	<0.1	0.852	<0.2	0.852	2.30	0.379
			6/16/2016	33	2.0	<0.1	<0.1	0.964	<0.2	0.964	1.93	<0.1
			9/23/2016	14	4.5	0.1	<0.1	0.77	<0.2	0.77	1.64	<0.1
			12/20/2016	1,600	240	1.6	<0.1	<0.5	<0.2	<0.5	1.60	0.621
			3/31/2017	130	33	1.5	<0.1	<0.5	<0.2	<0.5	1.50	0.464
			6/19/2017	540	33	0.2	<0.1	<0.5	<0.2	0.604	0.804	0.459
			8/29/2017	>1,600	7.8	<0.1	<0.1	1.21	<0.2	1.21	2.42	0.161
			12/28/2017	240	33	0.2	<0.1	<0.5	<0.2	<0.5	0.200	0.056
		4/13/2018	>1,600	49	1.0	<0.1	<0.5	<0.2	<0.5	1.00	0.449	
		L-003	9/25/2015	540	70	<0.1	<0.1	2.35	<0.2	2.35	4.70	0.379
			12/1/2015	240	17	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.213
			3/18/2016	240	23	0.6	<0.1	1.03	<0.2	1.03	2.66	0.397
			6/16/2016	79	4.0	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.139
			9/23/2016	23	4.5	<0.1	<0.1	1.21	<0.2	1.21	2.42	<0.1
			12/20/2016	220	31	2.7	<0.1	<0.5	<0.2	<0.5	2.70	0.984
			3/31/2017	70	23	1.2	<0.1	0.511	<0.2	0.511	2.22	0.446
			6/19/2017	220	17	<0.1	<0.1	0.714	<0.2	0.714	1.43	1.69
			8/29/2017	>1,600	33	<0.1	<0.1	0.898	<0.2	0.898	1.80	0.186
			12/28/2017	>1,600	13	0.08	<0.1	0.393	<0.2	0.393	0.866	<0.1
		4/13/2018	>1,600	79	0.6	<0.1	0.741	<0.2	0.741	2.08	0.373	
		L-004	9/25/2015	170	23	<0.1	<0.1	2.67	<0.2	2.67	5.34	0.266
			12/1/2015	170	130	<0.1	<0.1	0.583	<0.2	0.583	1.17	0.200
			3/18/2016	350	170	0.5	<0.1	0.798	<0.2	0.798	2.10	0.350
			6/16/2016	49	2.0	<0.1	<0.1	0.667	<0.2	0.667	1.33	0.114
			9/23/2016	17	4.5	<0.1	<0.1	0.627	<0.2	0.627	1.25	<0.1
			12/20/2016	540	79	2.4	<0.1	<0.5	<0.2	<0.5	2.40	0.833
			3/31/2017	540	170	0.4	<0.1	1.67	<0.2	1.67	3.74	0.394
6/19/2017	540		350	<0.1	<0.1	1.06	<0.2	1.06	2.12	0.477		
8/29/2017	>1,600		49	<0.1	<0.1	0.653	<0.2	0.653	1.31	0.151		
12/28/2017	540		170	<0.1	<0.1	<0.5	<0.2	<0.5	0	<0.1		
4/13/2018	1,600	130	1.0	<0.1	<0.5	<0.2	<0.5	1.00	0.548			

TABLE 3
Surface Water Analytical Results

Location	Monitoring Depth	Sample ID	Sample Date	Concentration (MPN/100mL)		Concentration (mg/L)						
				Coliform Bacteria Analysis		Inorganic Analysis						
				Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Nitrogen, Organic	Ammonia Nitrogen	Kjeldahl Nitrogen	Total Nitrogen	Phosphorous, Total
Malibu Lagoon and Creek	1 foot BSW	L-005	9/25/2015	350	49	<0.1	<0.1	3.8	<0.2	3.8	7.60	0.372
			12/1/2015	350	49	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.123
			3/18/2016	540	350	1.6	<0.1	1.37	<0.2	1.37	4.34	0.661
			6/16/2016	26	6.8	<0.1	<0.1	1.16	<0.2	1.16	2.32	0.133
			9/23/2016	7.8	7.8	<0.1	<0.1	<0.5	<0.2	0.53	0.530	<0.1
			12/20/2016	350	49	2.5	<0.1	<0.5	<0.2	<0.5	2.50	0.865
			3/31/2017	170	22	0.2	<0.1	<0.5	<0.2	<0.5	0.200	0.104
			6/19/2017	240	240	<0.1	<0.1	0.976	<0.2	0.976	1.95	0.902
			8/29/2017	920	70	<0.1	<0.1	1.22	<0.2	1.22	2.44	0.135
			12/28/2017	>1,600	>1,600	0.7	<0.1	0.703	<0.2	0.703	2.11	0.191
		4/13/2018	>1,600	94	0.6	<0.1	<0.5	<0.2	<0.5	0.600	0.312	
		L-006	9/25/2015	170	170	<0.1	<0.1	3.59	<0.2	3.67	7.26	0.320
			12/1/2015	350	49	<0.1	<0.1	<0.5	<0.2	<0.5	0	0.168
			3/18/2016	920	130	0.4	<0.1	1.46	<0.2	1.46	3.32	0.366
			6/16/2016	17	7.8	<0.1	<0.1	1.18	<0.2	1.18	2.36	0.172
			9/23/2016	7.8	7.8	<0.1	<0.1	1.24	<0.2	1.24	2.48	<0.1
			12/20/2016	130	14	0.3	<0.1	<0.5	<0.2	<0.5	0.300	0.287
			3/31/2017	540	11	<0.1	<0.1	13.6	<0.2	13.6	27.2	3.50
			6/19/2017	33	7.8	<0.1	<0.1	1.12	<0.2	1.12	2.24	0.714
			8/29/2017	1,600	26	<0.1	<0.1	1.76	<0.2	1.76	3.52	0.110
12/28/2017	920		170	<0.1	<0.1	4.27	<0.2	4.27	8.54	0.333		
4/13/2018	>1,600	110	<0.1	<0.1	<0.5	<0.2	<0.5	0.000	0.394			

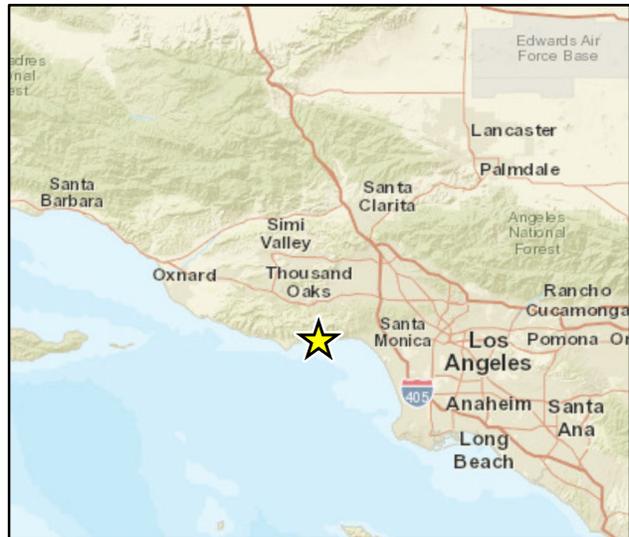
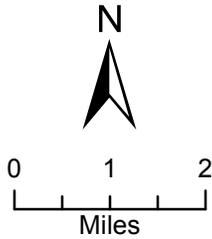
Notes:
bold: Constituent detected above Practical Quantitation Limit (PQL)
 mg/L: milligrams per liter
 MPN/100mL: Most Probable Number per 100 milliliters
 BSW: below surface water
 <: constituent not detected above the PQL
 >: constituent detected above the laboratory upper detection limit

Figures



Imagery provided by National Geographic Society, ESRI and its licensors © 2016. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

 Project Location



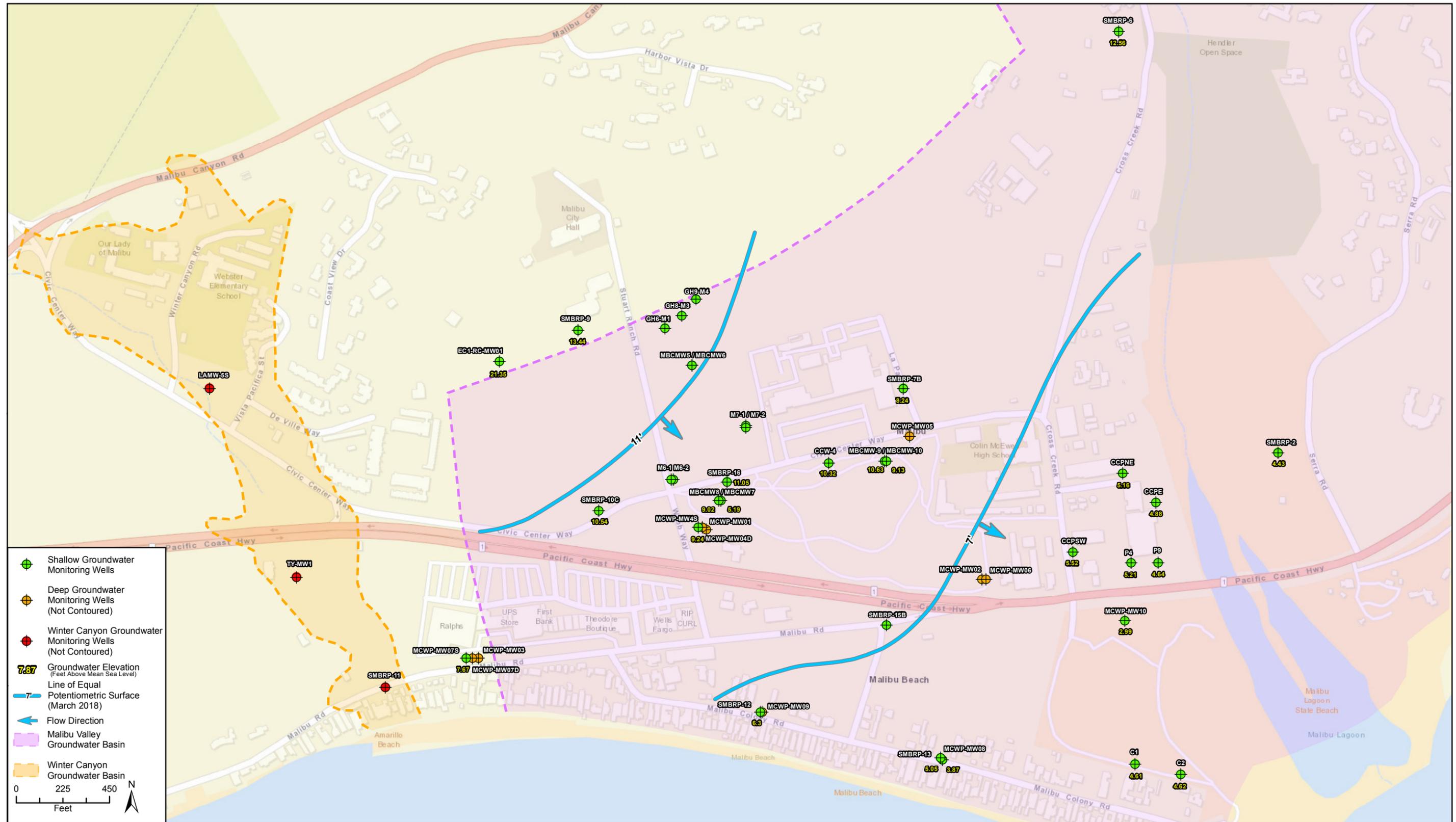
Vicinity Map

Figure 1



Imagery provided by Google and its licensors © 2018.

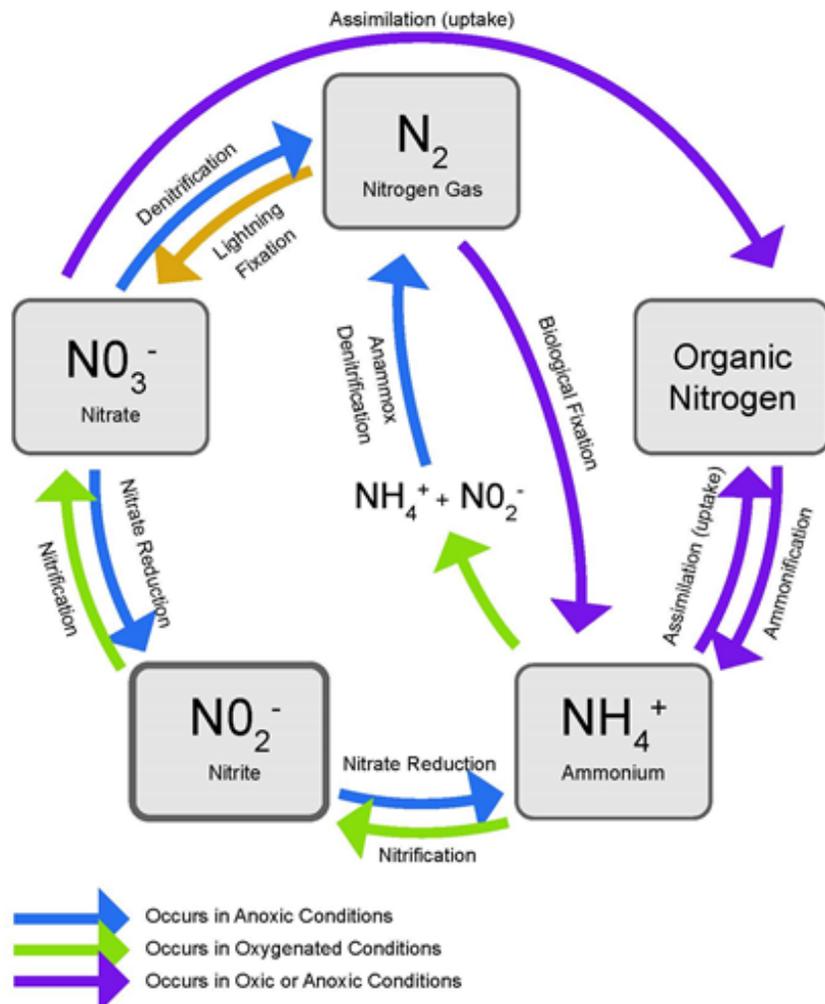
Site Map - Civic Center Area



Imagery provided by ESRI and its licensors © 2018.

Note: MBCMW-7 was not included in contour due to anomalous reading

Shallow Groundwater Elevation
 March 2018



The Nitrogen Cycle

Figure 6

Appendix A

Groundwater and Surface Water Field Sheets

Table 1
Groundwater Monitoring Well Construction

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	TOC Elevation (ft amsl)	Depth to Water 1/22/2018	Time	Depth to Water 8/24/2015 (ft bTOC)
1 C-1	14.5	n/a	11.47	6.73	1122	n/a
2 C-2	14.5	2	11.19	6.68	1125	5.11
3 CCPE	20	2	12.935	10.67	937	5.76
4 CCPNE		2	13.675	8.53	932	6.44
5 CCPSW		2	13.67	8.15	929	6.29
6 CCW-4		1	15.765	6.04	840	6.5
7 GH6-M1	35	2		27.83	1015	28.92
8 GH8-M3	40	2		27.44	1020	28.37
9 GH9-M4	45	2		29.23	1022	30.31
10 Lagoon		n/a		N/A	—	n/a
11 LAMW-5S	20	4	104.55	53.85	816	53.71
12 M6-1	45	2		6.79	1032	6.61
13 M6-2	20	2		4.98	1035	5.76
14 M7-1	40	2		7.95	1007	8.09
15 M7-2	25	2		7.43	1008	7.78
16 MBCMW-5	19.4	n/a	29.03	NA	—	n/a
17 MBCMW-6	64.26	n/a	29.02	NA	—	n/a
18 MBCMW-7	52.5	2	16.635	11.74	820	11.26
19 MBCMW-8	10	2	16.53	8.25	822	9.11
20 MBCMW-9	10	2	17.71	7.39	850	8.7
21 MBCMW-10	53	2	17.74	9.10	851	8.63
22 MCWP-MW01	148	6		10.70	952	10.22
23 MCWP-MW02	145	6	18.06	10.95	915	10.39
24 MCWP-MW03	134	6		8.14	1040	7.65
25 MCWP-MW04D	148	4		9.84	950	9.35
26 MCWP-MW04S	20	4		6.86	949	7.55
27 MCWP-MW05	158	4		8.04	1136	7.62

28	MCWP-MW06	153	2		10.34 10.34	914	9.87
29	MCWP-MW07D	134	2		8.02 8.02	1038	7.51
30	MCWP-MW07S	20	2		5.92 5.92	1039	6.76
31	MCWP-MW08	77	2		8.73 8.73	1058	7.64
32	MCWP-MW09	95	2	16.3	6.31 6.31	1050	7.52
33	MCWP-MW10	60	2		7.99	1115	5.7
34	P-4	12.5	4	12.155	6.84	924	4.58
35	P-9	14.3	4	12.165	7.44	925	5.07
36	SMBRP-2	25	2	13.131	8.53	919	6.04
37	SMBRP-6	25	2	26.875	14.78	908	16.49
38	SMBRP-7b	45	2	18.985	11.18	845	10.69
39	SMBRP-8 (EG-RC)	60	4		27.44	805	28.74
40	SMBRP-9	45	2	50.32	36.94	800	38.24
41	SMBRP-10C	25	2	16.25	6.82	810	7.37
42	SMBRP-11	20	2	18.35	8.54	1044	8.88
43	SMBRP-12	25	2	12.615	7.17	1051	5.69
44	SMBRP-13	20	2	13.58	8.46	1055	8.32
45	SMBRP-15b	25	1	16.765	DRY 7.91 7.91	1101	dry, recorded depth 8.77
46	SMBRP-16	25	2	14.5	8.25	836	4.95

Table 1

Groundwater Monitoring Well Construction

	Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	TOC Elevation (ft amsl)	Depth to Water 2/14/2018	Time	Depth to Water 8/24/2015 (ft bTOC)
1	C-1	14.5	n/a	11.47	6.42	1220	n/a
2	C-2	14.5	2	11.19	6.29	1218	5.11
3	CCPE	20	2	12.935	7.50	0935	5.76
4	CCPNE		2	13.675	8.13	0938	6.44
5	CCPSW		2	13.67	8.05	0942	6.29
6	CCW-4		1	15.765	6.04	1058	6.5
7	GH6-M1	35	2		27.98	1041	28.92
8	GH8-M3	40	2		27.55	1040	28.37
9	GH9-M4	45	2		29.73	1038	30.31
10	Lagoon		n/a		N/A		n/a
11	LAMW-5S	20	4	104.55	54.38	858	53.71
12	M6-1	45	2		6.93	1048	6.61
13	M6-2	20	2		5.40	1049	5.76
14	M7-1	40	2		7.96	1023	8.09
15	M7-2	25	2		7.47	1027	7.78
16	MBCMW-5	19.4	n/a	29.03	N/A		n/a
17	MBCMW-6	64.26	n/a	29.02	N/A		n/a
18	MBCMW-7	52.5	2	16.635	11.39	1017	11.26
19	MBCMW-8	10	2	16.53	8.61	1018	9.11
20	MBCMW-9	10	2	17.71	9.03	1110	8.7
21	MBCMW-10	53	2	17.74	7.70	1112	8.63
22	MCWP-MW01	148	6		10.49	1000	10.22
23	MCWP-MW02	145	6	18.06	10.71	0947	10.39
24	MCWP-MW03	134	6	15.30	10.49 8.47	1000 1127	7.65
25	MCWP-MW04D	148	4		9.59	0957	9.35
26	MCWP-MW04S	20	4		7.32	0956	7.55
27	MCWP-MW05	158	4		8.10	1108	7.62

28	MCWP-MW06	153	2		10.19	0949	9.87
29	MCWP-MW07D	134	2		8.38	1124	7.51
30	MCWP-MW07S	20	2		6.23	1125	6.76
31	MCWP-MW08	77	2		8.47 7.85	1127 1148	7.64
32	MCWP-MW09	95	2	16.3	7.30	1139	7.52
33	MCWP-MW10	60	2		7.73		5.7
34	P-4	12.5	4	12.155	7.22	0928	4.58
35	P-9	14.3	4	12.165	7.15	0931	5.07
36	SMBRP-2	25	2	13.131	8.60	0920	6.04
37	SMBRP-6	25	2	26.875	14.89	0911	16.49
38	SMBRP-7b	45	2	18.985	11.19	1100	10.69
39	SMBRP-8 (EG-RC)	60	4		27.52	0942	28.74
40	SMBRP-9	45	2	50.32	37.01	0835	38.24
41	SMBRP-10C	25	2	16.25	6.95	0852	7.37
42	SMBRP-11	20	2	18.35	8.90	1133	8.88
43	SMBRP-12	25	2	12.615	6.36	1140	5.69
44	SMBRP-13	20	2	13.58	7.85	1147	8.32
45	SMBRP-15b	25	1	16.765	dry (-7.94)	1153	dry, recorded depth 8.77
46	SMBRP-16	25	2	14.5	4.83	1014	4.95

Table 1
Groundwater Monitoring Well Construction

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	TOC Elevation (ft amsl)	Depth to Water 3/23/2018	Time	Depth to Water 8/24/2015 (ft bTOC)
1 C-1	14.5	n/a	11.47	6.86 N/A	1420	n/a
2 C-2	14.5	2	11.19	6.57 N/A	1425	5.11
3 CCPE	20	2	12.935	8.06	1225	5.76
4 CCPNE		2	13.675	8.52	1230	6.44
5 CCPSW		2	13.67	8.15	1234	6.29
6 CCW-4		1	15.765	5.45	1140	6.5
7 GH6-M1	35	2		28.10	1333	28.92
8 GH8-M3	40	2		27.68	1332	28.37
9 GH9-M4	45	2		29.62	1330	30.31
10 Lagoon		n/a		N/A	—	n/a
11 LAMW-5S	20	4	104.55	54.57	1120	53.71
12 M6-1	45	2		6.36	1336	6.61
13 M6-2	20	2		4.26	1339	5.76
14 M7-1	40	2		7.18	1322	8.09
15 M7-2	25	2		6.40	1321	7.78
16 MBCMW-5	19.4	n/a	29.03	N/A	—	n/a
17 MBCMW-6	64.26	n/a	29.02	N/A	—	n/a
18 MBCMW-7	52.5	2	16.635	11.45	1131	11.26
19 MBCMW-8	10	2	16.53	7.51	1130	9.11
20 MBCMW-9	10	2	17.71	7.08	1143	8.7
21 MBCMW-10	53	2	17.74	8.6	1145	8.63
22 MCWP-MW01	148	6		10.33	1251	10.22
23 MCWP-MW02	145	6	18.06	10.64	1288	10.39
24 MCWP-MW03	134	6		8.12	1300	7.65
25 MCWP-MW04D	148	4		9.56	1250	9.35
26 MCWP-MW04S	20	4		6.05	1248	7.55
27 MCWP-MW05	158	4		7.74	1148	7.62

28	MCWP-MW06	153	2		9.86	1240	9.87
29	MCWP-MW07D	134	2		7.93	1256	7.51
30	MCWP-MW07S	20	2		6.05	1255	6.76
31	MCWP-MW08	77	2		8.34	1402	7.64
32	MCWP-MW09	95	2	16.3	7.71	1356	7.52
33	MCWP-MW10	60	2		8.12	1430	5.7
34	P-4	12.5	4	12.155	6.95	1219	4.58
35	P-9	14.3	4	12.165	7.53	1222	5.07
36	SMBRP-2	25	2	13.131	8.70	1215	6.04
37	SMBRP-6	25	2	26.875	14.32	1205	16.49
38	SMBRP-7b	45	2	18.985	10.75	1155	10.69
39	SMBRP-8 (EG-RC)	60	4		27.34	1105	28.74
40	SMBRP-9	45	2	50.32	26.88	1058	38.24
41	SMBRP-10C	25	2	16.25	5.71	1115	7.37
42	SMBRP-11	20	2	18.35	8.62	1304	8.88
43	SMBRP-12	25	2	12.615	6.32	1355	5.69
44	SMBRP-13	20	2	13.58	8.53	1404	8.32
45	SMBRP-15b	25	1	16.765	DRY	TD=8.44 1407	dry, recorded depth 8.77
46	SMBRP-16	25	2	14.5	8.45	1134	4.95

Appendix B

Analytical Laboratory Reports

April 23, 2018

Rincon Consultants, Inc.
 Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Lab ID : SP 1805000
 Customer : 2-25173

Laboratory Report

Introduction: This report package contains total of 14 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.
 Sample Results (10 pages) : Results for each sample submitted.
 Quality Control (2 pages) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
N-001	04/13/2018	04/13/2018	SP 1805000-001	SW
N-002	04/13/2018	04/13/2018	SP 1805000-002	SW
N-003	04/13/2018	04/13/2018	SP 1805000-003	SW
N-004	04/13/2018	04/13/2018	SP 1805000-004	SW
L-001	04/13/2018	04/13/2018	SP 1805000-005	SW
L-002	04/13/2018	04/13/2018	SP 1805000-006	SW
L-003	04/13/2018	04/13/2018	SP 1805000-007	SW
L-004	04/13/2018	04/13/2018	SP 1805000-008	SW
L-005	04/13/2018	04/13/2018	SP 1805000-009	SW
L-006	04/13/2018	04/13/2018	SP 1805000-010	SW

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Wet Chemistry QC

351.2	04/16/2018:204253 All preparation quality controls are within established criteria.
	04/18/2018:204387 All preparation quality controls are within established criteria, except: The following note applies to Nitrogen, Total Kjeldahl: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to Nitrogen, Total Kjeldahl: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

April 23, 2018
Rincon Consultants, Inc.

Lab ID : SP 1805000
 Customer : 2-25173

Inorganic - Wet Chemistry QC

351.2	04/19/2018:204433 All preparation quality controls are within established criteria.
4500NH3G	04/17/2018:205319 All analysis quality controls are within established criteria.
	04/19/2018:205381 All analysis quality controls are within established criteria.
	04/16/2018:204251 All preparation quality controls are within established criteria, except: The following note applies to Ammonia Nitrogen: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to Ammonia Nitrogen: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
4500NO2F	04/13/2018:204219 All preparation quality controls are within established criteria.
4500NO3F	04/13/2018:205198 All analysis quality controls are within established criteria.
	04/13/2018:205210 All analysis quality controls are within established criteria.
	04/13/2018:204218 All preparation quality controls are within established criteria.
4500-P B	04/20/2018:204531 All preparation quality controls are within established criteria.
4500PE	04/23/2018:205534 All analysis quality controls are within established criteria.
EPA351.2	04/17/2018:205314 All analysis quality controls are within established criteria.
	04/23/2018:205582 All analysis quality controls are within established criteria.

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2018-04-23

April 23, 2018

Lab ID : SP 1805000-001
 Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-12:20
 Sampled By : Jaime McClain
 Received On : April 13, 2018-14:43
 Matrix : Surface Water

Description : N-001
 Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis		
							Method	ID	Time	Method	ID	Time
Wet Chemistry												
Nitrate Nitrogen	0.100	0.1	0.032	mg/L	1	J	4500NO3F	204218	04/13/18 13:00	4500NO3F	205210-FI207	04/13/18-15:57JDD
Nitrite Nitrogen	0.0180	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18 13:00	4500NO3F	205198-FI207	04/13/18-15:54JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18 03:00	4500NH3G	205319-FI207	04/17/18-07:59AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18 03:00	4500NH3G	205319-FI207	04/17/18-07:59AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	U	351.2	204253	04/16/18 07:37	EPA351.2	205314-FI206	04/17/18-07:49JDD
Phosphorus, Total	0.101	0.1	0.020	mg/L	1	b	4500-P B	204531	04/20/18 16:00	4500PE	205534-UV205	04/23/18-12:11JMR

DQF Flags Definition:

- b The Blank was detected above method MDL for constituent but less than the PQL
- h The MS/MSD did not meet QC criteria.
- U Constituent results were non-detect.
- J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-002

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-12:00

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : N-002

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis		
							Method	ID	Time	Method	ID	Time
Wet Chemistry												
Nitrate Nitrogen	0.100	0.1	0.032	mg/L	1	J	4500NO3F	204218	04/13/18 13:00	4500NO3F	205210-FI207	04/13/18-15:59JDD
Nitrite Nitrogen	0.0170	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18 13:00	4500NO3F	205198-FI207	04/13/18-15:57JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18 03:00	4500NH3G	205319-FI207	04/17/18-07:10AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18 03:00	4500NH3G	205319-FI207	04/17/18-07:10AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	U	351.2	204253	04/16/18 07:37	EPA351.2	205314-FI206	04/17/18-07:50JDD
Phosphorus, Total	0.0749	0.1	0.020	mg/L	1	Jb	4500-P B	204531	04/20/18 16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:												
b The Blank was detected above method MDL for constituent but less than the PQL												
l The MS/MSD did not meet QC criteria.												
U Constituent results were non-detect.												
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.												

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-003

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-11:40

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : N-003

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis			
							Method	ID	Time	Method	ID	Time	
Wet Chemistry													
Nitrate Nitrogen	0.0500	0.1	0.032	mg/L	1	J	4500NO3F	204218	04/13/18	13:00	4500NO3F	205210-FI207	04/13/18-16:02JDD
Nitrite Nitrogen	0.0150	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18	13:00	4500NO3F	205198-FI207	04/13/18-15:59JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-07:01AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-07:01AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	U	351.2	204433	04/19/18	07:21	EPA351.2	205582-FI206	04/23/18-08:08AMB
Phosphorus, Total	ND	0.1	0.020	mg/L	1	Ub	4500-P B	204531	04/20/18	16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:													
b The Blank was detected above method MDL for constituent but less than the PQL													
l The MS/MSD did not meet QC criteria.													
U Constituent results were non-detect.													
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.													

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-004

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-12:55

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : N-004

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis			
							Method	ID	Time	Method	ID	Time	
Wet Chemistry													
Nitrate Nitrogen	0.100	0.1	0.032	mg/L	1	J	4500NO3F	204218	04/13/18	13:00	4500NO3F	205210-FI207	04/13/18-16:04JDD
Nitrite Nitrogen	0.0160	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18	13:00	4500NO3F	205198-FI207	04/13/18-16:02JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-07:36AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-07:36AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	U	351.2	204253	04/16/18	07:37	EPA351.2	205314-FI206	04/17/18-07:51JDD
Phosphorus, Total	ND	0.1	0.020	mg/L	1	Ub	4500-P B	204531	04/20/18	16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:													
b The Blank was detected above method MDL for constituent but less than the PQL													
h The MS/MSD did not meet QC criteria.													
U Constituent results were non-detect.													
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.													

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-005

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-09:55

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : L-001

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis			
							Method	ID	Time	Method	ID	Time	
Wet Chemistry													
Nitrate Nitrogen	1.70	0.1	0.032	mg/L	1		4500NO3F	204218	04/13/18	13:00	4500NO3F	205210-FI207	04/13/18-16:20JDD
Nitrite Nitrogen	0.0230	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18	13:00	4500NO3F	205198-FI207	04/13/18-16:18JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-06:38AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-06:38AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	U	351.2	204433	04/19/18	07:21	EPA351.2	205582-FI206	04/23/18-08:09AMB
Phosphorus, Total	0.858	0.1	0.020	mg/L	1	b	4500-P B	204531	04/20/18	16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:													
b The Blank was detected above method MDL for constituent but less than the PQL													
l The MS/MSD did not meet QC criteria.													
U Constituent results were non-detect.													
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.													

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-006

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-10:50

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : L-002

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis			
							Method	ID	Time	Method	ID	Time	
Wet Chemistry													
Nitrate Nitrogen	1.00	0.1	0.032	mg/L	1		4500NO3F	204218	04/13/18	13:00	4500NO3F	205210-FI207	04/13/18-16:22JDD
Nitrite Nitrogen	0.0210	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18	13:00	4500NO3F	205198-FI207	04/13/18-16:19JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-06:54AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-06:54AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	UI	351.2	204387	04/18/18	07:21	4500NH3G	205381-FI206	04/19/18-04:31AMB
Phosphorus, Total	0.449	0.1	0.020	mg/L	1	b	4500-P B	204531	04/20/18	16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:													
b The Blank was detected above method MDL for constituent but less than the PQL													
l The MS/MSD did not meet QC criteria.													
U Constituent results were non-detect.													
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.													

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-007

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-10:10

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : L-003

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis			
							Method	ID	Time	Method	ID	Time	
Wet Chemistry													
Nitrate Nitrogen	0.600	0.1	0.032	mg/L	1		4500NO3F	204218	04/13/18	13:00	4500NO3F	205210-FI207	04/13/18-16:24JDD
Nitrite Nitrogen	0.0230	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18	13:00	4500NO3F	205198-FI207	04/13/18-16:22JDD
Nitrogen, Organic	0.741	0.5	0.072	mg/L	1	l	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-06:56AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	UI	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-06:56AMB
Kjeldahl Nitrogen	0.741	0.5	0.32	mg/L	1		351.2	204433	04/19/18	07:21	EPA351.2	205582-FI206	04/23/18-08:10AMB
Phosphorus, Total	0.373	0.1	0.020	mg/L	1	b	4500-P B	204531	04/20/18	16:00	4500PE	205534-UV205	04/23/18-12:11JMR

DQF Flags Definition:

- b The Blank was detected above method MDL for constituent but less than the PQL
- l The MS/MSD did not meet QC criteria.
- U Constituent results were non-detect.
- J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-008

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-11:05

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : L-004

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis			
							Method	ID	Time	Method	ID	Time	
Wet Chemistry													
Nitrate Nitrogen	1.00	0.1	0.032	mg/L	1		4500NO3F	204218	04/13/18	13:00	4500NO3F	205210-FI207	04/13/18-16:27JDD
Nitrite Nitrogen	0.0230	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18	13:00	4500NO3F	205198-FI207	04/13/18-16:24JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-07:45AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-07:45AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	U	351.2	204253	04/16/18	07:37	EPA351.2	205314-FI206	04/17/18-07:52JDD
Phosphorus, Total	0.548	0.1	0.020	mg/L	1	b	4500-P B	204531	04/20/18	16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:													
b The Blank was detected above method MDL for constituent but less than the PQL													
h The MS/MSD did not meet QC criteria.													
U Constituent results were non-detect.													
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.													

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-009

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-10:35

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : L-005

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis			
							Method	ID	Time	Method	ID	Time	
Wet Chemistry													
Nitrate Nitrogen	0.600	0.1	0.032	mg/L	1		4500NO3F	204218	04/13/18	13:00	4500NO3F	205210-FI207	04/13/18-16:29JDD
Nitrite Nitrogen	0.0220	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18	13:00	4500NO3F	205198-FI207	04/13/18-16:27JDD
Nitrogen, Organic	ND	0.5	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-08:04AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18	03:00	4500NH3G	205319-FI207	04/17/18-08:04AMB
Kjeldahl Nitrogen	ND	0.5	0.32	mg/L	1	U	351.2	204253	04/16/18	07:37	EPA351.2	205314-FI206	04/17/18-07:54JDD
Phosphorus, Total	0.312	0.1	0.020	mg/L	1	b	4500-P B	204531	04/20/18	16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:													
b The Blank was detected above method MDL for constituent but less than the PQL													
h The MS/MSD did not meet QC criteria.													
U Constituent results were non-detect.													
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.													

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018

Lab ID : SP 1805000-010

Customer ID : 2-25173

Rincon Consultants, Inc.

Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

Sampled On : April 13, 2018-11:30

Sampled By : Jaime McClain

Received On : April 13, 2018-14:43

Matrix : Surface Water

Description : L-006

Project : Malibu WWTP - Surface Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation			Sample Analysis		
							Method	ID	Time	Method	ID	Time
Wet Chemistry												
Nitrate Nitrogen	ND	0.1	0.032	mg/L	1	U	4500NO3F	204218	04/13/18 13:00	4500NO3F	205210-FI207	04/13/18-16:32JDD
Nitrite Nitrogen	0.0140	0.1	0.011	mg/L	1	J	4500NO2F	204219	04/13/18 13:00	4500NO3F	205198-FI207	04/13/18-16:29JDD
Nitrogen, Organic	0.337	0.5	0.072	mg/L	1	UhJ	4500NH3G	204251	04/16/18 03:00	4500NH3G	205319-FI207	04/17/18-07:40AMB
Ammonia Nitrogen	ND	0.2	0.072	mg/L	1	Uh	4500NH3G	204251	04/16/18 03:00	4500NH3G	205319-FI207	04/17/18-07:40AMB
Kjeldahl Nitrogen	0.337	0.5	0.32	mg/L	1	J	351.2	204253	04/16/18 07:37	EPA351.2	205314-FI206	04/17/18-07:57JDD
Phosphorus, Total	0.394	0.1	0.020	mg/L	1	b	4500-P B	204531	04/20/18 16:00	4500PE	205534-UV205	04/23/18-12:11JMR
DQF Flags Definition:												
b The Blank was detected above method MDL for constituent but less than the PQL												
h The MS/MSD did not meet QC criteria.												
U Constituent results were non-detect.												
J Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.												

ND=Non-Detected. PQL=Practical Quantitation Limit.

April 23, 2018
Rincon Consultants, Inc.

Lab ID : SP 1805000
 Customer : 2-25173

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Nitrogen, Total Kjeldahl	351.2	04/16/18:204253jmg (SP 1804894-003)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	80.8 %	73-124	
			MS	mg/L	12.00	63.7 %	54-136	
			MSD	mg/L	12.00	61.8 %	54-136	
	351.2	04/18/18:204387jmg (CH 1872595-001)	MSRPD	mg/L	12.00	3.1%	≤27	
			Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	82.7 %	73-124	435
			MS	mg/L	12.00	35.9 %	54-136	435
	351.2	04/19/18:204433jmg (SP 1805000-003)	MSD	mg/L	12.00	0.0 %	54-136	435
			MSRPD	mg/L	12.00	4.3	≤0.5	435
			Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	94.2 %	73-124	
Ammonia Nitrogen	4500NH3G	(VI 1841742-001) (SP 1805000-004)	MS	mg/L	2.000	21.3 %	70-130	435
			MSD	mg/L	2.000	106 %	70-130	
			MSRPD	mg/L	2.000	133%	≤20	435
			MS	mg/L	2.000	149 %	70-130	435
			MSD	mg/L	2.000	139 %	70-130	435
	4500NH3G	04/17/18:205319AMB	MSRPD	mg/L	2.000	7.2%	≤20	
			ICB	mg/L		-0.097	0.1	
			ICV	mg/L	2.000	110 %	90-110	
			CCB	mg/L		0.000	0.1	
			CCV	mg/L	2.000	110 %	90-110	
			CCB	mg/L		-0.080	0.1	
			CCV	mg/L	2.000	108 %	90-110	
			CCB	mg/L		-0.012	0.1	
			CCV	mg/L	2.000	110 %	90-110	
	4500NH3G	04/19/18:205381AMB	CCB	mg/L		0.000	0.1	
			ICV	mg/L	5.000	96.2 %	90-110	
CCB			mg/L		0.000	0.1		
CCV			mg/L	5.000	100 %	90-110		
Nitrite as Nitrogen	4500NO2F (SP 1805000-001)	MS	mg/L	1.218	51.1 %	50-150		
		MSD	mg/L	1.218	52.0 %	50-150		
		MSRPD	mg/L	1.218	1.5%	≤30		
Nitrate + Nitrite as N	4500NO3F (SP 1805000-001)	MS	mg/L	56.35	18.8 %	5-285		
		MSD	mg/L	56.35	18.9 %	5-285		
		MSRPD	mg/L	56.35	0.4%	≤30.4		
	4500NO3F	04/13/18:205210JDD	CCB	mg/L		-0.033	0.2	
			CCV	mg/L	11.27	94.9 %	90-110	
			CCB	mg/L		-0.038	0.2	
			CCB	mg/L		-0.019	0.2	
			CCV	mg/L	11.27	94.8 %	90-110	
			CCB	mg/L		-0.060	0.2	
			CCV	mg/L	11.27	93.6 %	90-110	
Nitrite as Nitrogen	4500NO3F 04/13/18:205198JDD	CCB	mg/L		0.01200	0.012		
		CCV	mg/L	1.218	103 %	90-110		
		CCB	mg/L		0.0100	0.012		
		CCB	mg/L		0.0100	0.012		
		CCV	mg/L	1.218	102 %	90-110		
		CCB	mg/L		0.01200	0.012		
CCV	mg/L	1.218	103 %	90-110				

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Phosphorus	4500-P B	04/20/18:204531JMR (SP 1805000-001)	Blank	mg/L		ND	<0.1	
			LCS	mg/L	0.5000	93.3 %	90-116	
			MS	mg/L	0.5000	62.6 %	25-292	
			MSD	mg/L	0.5000	64.9 %	25-292	
			MSRPD	mg/L	0.5000	0.012	≤0.1	
Total Phosphorus	4500PE	04/23/18:205534JMR	CCB	mg/L		-0.016	0.1	
			CCV	mg/L	0.5000	98.6 %	90-110	
			CCB	mg/L		-0.007	0.1	
			CCV	mg/L	0.5000	92.7 %	90-110	
			CCB	mg/L		0.005	0.1	
			CCV	mg/L	0.5000	95.7 %	90-110	
Nitrogen, Total Kjeldahl	EPA351.2	04/17/18:205314JDD	CCB	mg/L		0.373	0.5	
			CCV	mg/L	5.000	98.6 %	90-110	
			CCB	mg/L		-0.301	0.5	
			CCV	mg/L	5.000	90.0 %	90-110	
			CCB	mg/L		-0.244	0.5	
	EPA351.2	04/23/18:205582AMB	ICB	mg/L		0.447	0.5	
			ICV	mg/L	5.000	101 %	90-110	
			CCB	mg/L		0.337	0.5	
			CCV	mg/L	5.000	93.2 %	90-110	
Definition								
ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.								
CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.								
Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.								
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.								
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.								
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.								
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.								
ND : Non-detect - Result was below the DQO listed for the analyte.								
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
Explanation								
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								

April 23, 2018

Rincon Consultants, Inc.
 Attn: Torin Snyder
 180 N. Ashwood Ave.
 Ventura, CA 93003

SP 1805000:1-10 COLIFORM BACTERIA ANALYSIS
 Customer ID : 2-25173

System Number :
 Project Name : Malibu WWTP - Surface Water Monitoring

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	SP 1805000-001	N-001	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 12:20	04/13/2018 15:09 lm	04/16/2018 lm
2	SP 1805000-002	N-002	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 12:00	04/13/2018 15:09 lm	04/16/2018 lm
3	SP 1805000-003	N-003	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 11:40	04/13/2018 15:12 lm	04/17/2018 lm
4	SP 1805000-004	N-004	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 12:55	04/13/2018 15:14 lm	04/15/2018 lm
5	SP 1805000-005	L-001	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 09:55	04/13/2018 15:16 lm	04/16/2018 lm
6	SP 1805000-006	L-002	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 10:50	04/13/2018 15:18 lm	04/17/2018 lm
7	SP 1805000-007	L-003	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 10:10	04/13/2018 15:20 lm	04/16/2018 lm
8	SP 1805000-008	L-004	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 11:05	04/13/2018 15:22 lm	04/17/2018 lm
9	SP 1805000-009	L-005	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 10:35	04/13/2018 15:24 lm	04/17/2018 lm
10	SP 1805000-010	L-006	Source-Other	Jaime McClain	Rincon Consultants	04/13/2018 11:30	04/13/2018 15:26 lm	04/16/2018 lm

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Total	Fecal	E. Coli	Person Notified ‡	Date ‡ Notified	Time ‡ Notified	Foot Note
1	N-001	---	---	SM 9221B	MPN/100ml	79	2	---	N/R			
2	N-002	---	---	SM 9221B	MPN/100ml	46	21	---	N/R			
3	N-003	---	---	SM 9221B	MPN/100ml	17	17	---	N/R			
4	N-004	---	---	SM 9221B	MPN/100ml	4.5	4.5	---	N/R			
5	L-001	---	---	SM 9221B	MPN/100ml	> 1600	220	---	N/R			
6	L-002	---	---	SM 9221B	MPN/100ml	> 1600	49	---	N/R			
7	L-003	---	---	SM 9221B	MPN/100ml	> 1600	79	---	N/R			
8	L-004	---	---	SM 9221B	MPN/100ml	1600	130	---	N/R			
9	L-005	---	---	SM 9221B	MPN/100ml	> 1600	94	---	N/R			
10	L-006	---	---	SM 9221B	MPN/100ml	> 1600	110	---	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence

‡ Client Notification details.

Analyses were performed using Standard Methods 22nd edition. If you have any questions regarding your results, please call.

Reviewed and
 Approved By

Raquel R. Harvey



Digitally signed by Raquel R. Harvey
 Title: Tech Director Microbiology
 Date: 2018-04-23

				4053:03/05/2018		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information																			
Client: Rincon Consultants, Inc. Address: Attn: Torin Snyder 180 N. Ashwood Ave. Ventura, CA 93003 Phone: (760)918-9444ext209 Fax: Contact Person: Torin Snyder Project Name: Malibu WWTP - SW Monitoring Purchase Order Number: Quote Number: SP 20150526-01				Method of Sampling: Composite(C) Grab(G) Type of Sample: **SEE REVERSE SIDE** Potable(P) Non-Potable(NP) Ag Water(AgW) Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)		Coliform-LTB-Series 15 Tube ***8 Hour Hold Time*** 120ml(PBa)-Na2S2O3 Wet Chemistry-NO3-N,NO2-N,N-Organic,Total P.,NH3-N ***NO2-N, NO3-N-48 Hour Hold Time*** 16oz(P)-H2SO4																			
Sampler(s) <i>Jaime McClain</i> <i>Rincon consultants</i> Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ___/___/___ Time: ___/___																									
Lab Number: SP <i>1805000</i> 2-25173																									
Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling	Type of Sample	Potable(P)	Non-Potable(NP)	Ag Water(AgW)	Bacti Type: Other(O)	System(SYS)	Source(SR)	Waste(W)	Bacti Reason: Routine(ROUT)	Repeat(RPT)	Replace(RPL)	Other(O)	Special(SPL)	Coliform-LTB-Series 15 Tube	***8 Hour Hold Time***	120ml(PBa)-Na2S2O3	Wet Chemistry-NO3-N,NO2-N,N-Organic,Total P.,NH3-N	***NO2-N, NO3-N-48 Hour Hold Time***	16oz(P)-H2SO4		
1	N-001	04/13/18	1220	G	SW													1	1,1						
2	N-002	04/13/18	1200	G	SW													1	1,1						
3	N-003	04/13/18	1140	G	SW													1	1,1						
4	N-004	04/13/18	1255	G	SW													1	1,1						
5	L-001	04/13/18	0955	G	SW													1	1,1						
6	L-002	04/13/18	1050	G	SW													1	1,1						
7	L-003	04/13/18	1010	G	SW													1	1,1						
8	L-004	04/13/18	1105	G	SW													1	1,1						
9	L-005	04/13/18	1035	G	SW													1	1,1						
10	L-006	04/13/18	1130	G	SW													1	1,1						
Remarks: <i>FLUORIDE</i>				Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:		Relinquished Date: Time:	
				Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:		Received By: Date: Time:	

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

Condition Upon Receipt (Attach to COC)

Sample Receipt at SP:

- 1. Number of ice chests/packages received: OTC
- 2. Shipper tracking numbers _____
- 3. Were samples received in a chilled condition?
Temps: ROI / 15 / _____ / _____ / _____ / _____ / _____
- 4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
- 5. Do the number of bottles received agree with the COC? Yes No N/A
- 6. Verify sample date, time, sampler Yes No N/A
- 7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) Yes No
- 8. Were sample custody seals intact? Yes No N/A

Sample Verification, Labeling and Distribution:

- 1. Were all requested analyses understood and acceptable? Yes No
- 2. Did bottle labels correspond with the client's ID's? Yes No
- 3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
- 4. VOAs checked for Headspace? Yes No N/A
- 5. Were all analyses within holding times at time of receipt? Yes No
- 6. Have rush or project due dates been checked and accepted? Yes No N/A

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by: _____

Reviewed and
Approved By

Shawn Peck



Digitally signed by Shawn Peck
Title: Sample Receiving
Date: 04/18/2018-10:07:56

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

- 1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____

Resolution: _____

- 2. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____

Resolution: _____

(2025173)
Rincon Consultants, Inc.
SP 1805000
SRP-04/18/2018-10:07:56