State Water Resources Control Board
Division of Drinking Water

August 30, 2017

Attn: Brandon Shea, Water System Lead Operator
Pismo Beach Public Works Department
760 Mattie Road
Pismo Beach, CA 93449

System Number 4010008 – 2017 Sanitary Survey

Dear Mr. Shea:

Thank you for your cooperation during the City of Pismo Beach water system inspection on July 21, 2017. The inspection was conducted by Matthew Foster, Sanitary Engineer, with the Division of Drinking Water (hereinafter DDW).

The routine inspection of the drinking water system was part of a Sanitary Survey and included examining the source, treatment, storage, and pump facilities. In addition to the water system inspection, this Sanitary Survey included a review of the distribution system, routine monitoring and reporting to the DDW, water system management and operations, and operator compliance with State requirements. The purpose of the Sanitary Survey is to identify any health concerns related to the water system and to assess the overall construction, operation, maintenance, and management of the water system.

Based on the recent field inspection and review of DDW files, a couple of items were identified that require attention by the City of Pismo Beach to increase the reliability and safety of the water system and to meet all applicable regulations. These items are listed below, and are discussed at greater detail along with a broader analysis of the water system in the Sanitary Survey Report enclosed (Enclosure 1). Please complete the enclosed Sanitary Survey response form (Enclosure 2) and return it to our office within 30 days.

Pismo Beach Public Works Department Sanitary Survey Follow Up Items:

1. The pump to waste discharge line for Well 5 extends into a collar that is used to direct water to a percolation sump. The line does not have a proper backflow prevention device on it. To prevent the possibility of backflow from the percolation sump into Well 5's discharge line, an air gap shall be provided between the rim of the collar and the end of the well's pump to waste discharge line.

2. The 2016 Consumer Confidence Report had a few errors or omissions in it. In 2014, one lead and copper site exceeded the action level for lead. This was not indicated in the 2016 Consumer Confidence Report. The report also references the California Department of Public Health, although this should be changed to the State Water Resources Control Board. The report also mentions that vulnerability assessments have

been completed for Wells 5 and 23, but no summary of the assessments is provided. The 2017 Consumer Confidence Report shall be submitted to DDW for review and approval before it is issued in 2018.

3. The vent on the top of the Pacific Estates Tank 1 is highly corroded and in poor condition. It is recommended that the vent on the Pacific Estates Tank 1 be replaced.

4. It is understood that the City of Pismo Beach is planning to construct a recycled water groundwater recharge system within the next few years. Please continue to update DDW on the progress of this recycled water project.

If you have any questions regarding this letter, please contact our office at (805) 566-1326.

Sincerely,

Jeff Densmore, P.E., District Engineer
Santa Barbara District
Division of Drinking Water
State Water Resources Control Board

Enclosure 1: Sanitary Survey Report
Enclosure 2: Sanitary Survey Response Form
Enclosure 3: Last Sample Date and Monitoring Schedule

cc: San Luis Obispo County Environmental Health Services

Enclosure 1

Sanitary Survey Report

City of Pismo Beach

State Water Resources Control Board

Division of Drinking Water

Southern California Field Operations Branch

Sanitary Survey

Engineering Report

Pismo Beach Public Works Department

4010008

San Luis Obispo County

August 30, 2017

Prepared By

Matthew Foster, P.E.

Sanitary Engineer, Santa Barbara District

August 30, 2017

Sanitary Survey Report
For
Pismo Beach Public Works Department
San Luis Obispo County

State Water Resources Control Board
Division of Drinking Water
Southern California Field Operations Branch
Matthew Foster, Sanitary Engineer

I. INTRODUCTION

1.1 PURPOSE OF REPORT

The purpose of this report is to document the findings of the recent Sanitary Survey. Sanitary Surveys are required every three years, at a minimum, and consist of a discussion and survey of eight elements (*Source, Treatment, Distribution System, Finished Water Storage, Pumps/Pump Facilities/Controls, Monitoring/Reporting/Data Verification, System Management and Operation, and Operator Compliance with State Requirements*). Each element is comprised of several components. The public water system is required to comply with all regulations pertaining to each element. If the Division of Drinking Water (hereinafter DDW) identifies a significant deficiency in any element category during a Sanitary Survey, the public water system will be required to correct the significant deficiency in a specified time frame.

1.2 BRIEF DESCRIPTION OF SYSTEM

The Pismo Beach Public Works Department is publically owned and serves the community of Pismo Beach. Pismo Beach operates three sources, nine reservoirs, and six booster stations to provide potable water to about 8,181 people via 4,727 service connections. Pismo Beach serves a maximum seasonal population of about 29,000 people. It is classified as a community water system and operates under the authority of permit number 04-06-13P-001, issued by DDW in 2013. The previous Sanitary Survey of Pismo Beach was conducted during July of 2013.

1.3 SOURCES OF INFORMATION

All information included in this report was obtained from DDW files, Pismo Beach personnel, and a site visit on July 21, 2017.

1.4 WATER DEMAND DATA

Table 1: Water Demand Data for the Previous 10 Years

Year	Maximum Daily Water Demand (Gallons)	Maximum Monthly Water Demand (Gallons)	Annual Water Demand (Gallons)
2007	3,600,000*	78,400,000*	735,520,000
2008	3,500,000*	76,600,000*	719,360,000
2009	3,300,000*	71,400,000*	670,410,000
2010	3,300,000*	70,900,000*	664,940,000
2011	3,100,000*	70,710,000	623,150,000
2012	3,240,000	73,810,000	661,030,000
2013	3,400,000*	77,430,000	723,840,000
2014	2,900,000*	66,850,000	634,150,000
2015	2,300,000*	53,500,000	565,580,000
2016	2,600,000*	58,710,000	576,030,000

*Estimated from annual or monthly demand data

Based on the previous ten years of available water use data, the maximum day demand is about 3.6 mgd or 2,500 gpm.

1.5 ENFORCEMENT HISTORY

Since the previous Sanitary Survey, no enforcement actions have been issued to Pismo Beach.

II. INVESTIGATION AND FINDINGS

2.1 ELEMENT 1: SOURCES

Pismo Beach's sources of water include the Lopez Project and two groundwater wells. The wells can produce roughly 1,500 gpm or 2.1 mgd together. The groundwater is treated with sodium hypochlorite for disinfection purposes before being pumped into Pismo Beach's distribution system, although the water purchased from the Lopez Project is treated with chloramines. A review of water quality sampling of the wells indicates that the water meets all water quality standards.

2.1.1 GROUNDWATER SUPPLIES

Pismo Beach operates two active groundwater wells, known as Well 5 and Well 23. They are located within the City of Grover Beach and pump from the adjudicated Santa Maria River Valley Groundwater Basin. Well 5 is equipped with a 550 gpm pump, and Well 23 is equipped with a 950 gpm pump.

The wells meet construction and separation standards. They are equipped with concrete pads, pump to waste discharge lines, check valves, flow meters, non-threaded and down-turned sample taps, and control valves. They are not located in areas considered to be vulnerable to flooding. They are secured behind locked fences for security.

The pump to waste discharge line for Well 5 extends into a collar that is used to direct water to a percolation sump. The line does not have a proper backflow prevention device on it. **To prevent the possibility of backflow conditions from the percolation sump into Well 5's discharge line, an air gap shall be provided between the rim of the collar and the end of the well's discharge line.**

Drinking water source assessments were completed for Well 5 in 2013 and for Well 23 in 2002. The wells were determined to be most vulnerable to the

following: gas stations, car repair shops, furniture manufacturing, sewer collection, metal plating, finishing, and fabricating, and scrap yards.

Table 2: Active Well Info						
Source Name & PS Code	Year Drilled	Well Depth (ft.)	Perforations (ft.)	Annular Seal Depth (ft.)	Pump Type	Pump Capacity (gpm)
Well 5 4010008-005	1973	500	150-500	150	Submersible	550
Well 23 4010008-010	1990	395	180-220, 240-285 315-375	170	Vertical Turbine	950

2.1.2 AUXILIARY SOURCES AND INTERCONNECTIONS

Pismo Beach purchases treated surface water from the Lopez Project. The Lopez Project is county owned and serves the communities of Arroyo Grande, Grover Beach, Pismo Beach, Oceano, and Avila Beach. The Lopez Project facilities include the Lopez Lake and Dam, Lopez Terminal Reservoir, Lopez Water Treatment Plant, and a connection to the Central California Water Authority. The Lopez Water Treatment Plant is a microfiltration plant that has been permitted for compliance with the Surface Water Treatment Rule. Water in the Lopez Lake comes from natural runoff from about 66 square miles of the upper portion of the Arroyo Grande Creek Watershed. The Central California Water Authority's source of water is the State Water Project, and it is treated at the Polonio Pass Water Treatment Plant. The Polonio Pass Water Treatment Plant is a conventional filtration water treatment plant. During the last five years, an average of about one third of the water from Lopez came from the Central California Water Authority, and two thirds came from Lopez Lake. The water from the Lopez Project has a chloramine disinfectant residual. Pismo Beach's connections to the Lopez Project can provide up to 2,000 gpm total.

Table 3: Purchased Water Turnout Info		
Name	Capacity (gpm)	Delivers Water To
Bello	800	Bello
Palisades	200	Shell Beach 2
Pismo Oaks	200	Pismo Oaks & Bello
Vista Del Mar	800	Shell Beach 1

2.1.3 ADEQUACY OF SUPPLY

Pismo Beach is required to have enough source capacity at all times to meet its maximum day demand, as determined from the past 10 years. Pismo Beach has an estimated maximum day demand of 3.6 mgd and a total source capacity of about 5 mgd, and therefore is considered to have an adequate water supply. With the Lopez Project offline however, Pismo Beach's source capacity would

drop to about 2.1 mgd. This would be enough to meet an average day's demand, but not maximum day demand. In the case of an emergency, Pismo Beach has a connection to the City of Arroyo Grande's water system.

2.1.4 NON-POTABLE WATER

Pismo Beach does not currently utilize any non-potable water distribution systems. Due to high vulnerability of Pismo Beach's water sources, Pismo Beach is currently planning to construct a recycled water groundwater recharge system. The project would include the construction of an advanced treatment facility that includes membrane filtration, UV disinfection, and advanced oxidation. Water from Pismo Beach's existing wastewater treatment plant would be further treated at the advanced treatment facility. Treated wastewater from the South San Luis Obispo County Sanitation District may also be sent to the advanced treatment facility for further treatment. The project would also include the construction of injection wells to enable the recharge of the groundwater basin with the advanced treated wastewater. The groundwater recharge project could potentially recover about 700 acre-feet per year of Pismo Beach's wastewater, which is one third of Pismo Beach's potable water demand. **Please continue to update DDW on the progress of the recycled water project.**

2.2 ELEMENT 2: TREATMENT

2.2.1 DISINFECTION TREATMENT

Disinfection treatment is provided by the injection of a 12.5% sodium hypochlorite solution into the wells' discharge lines. The hypochlorite pumps are activated when the wells are activated, and a residual of about 1.3 mg/L is maintained in the distribution system. The chlorinated groundwater is mixed with chloraminated water from Lopez. The mixing of free chlorine with chloramines can cause a reduction of chlorine residuals. It is recommended that Pismo Beach closely monitor chlorine residuals in the pressure zones that receive both groundwater and water from Lopez.

Table 4: Active Disinfection Treatment Facility Info

Sources Treated	Type	Chemical Storage (gal)	Residual (mg/L)
Well 5	NaClO	70	1.3
Well 23	NaClO	100	1.3

2.3 ELEMENT 3: DISTRIBUTION SYSTEM

2.3.1 DISTRIBUTION LINES

Pismo Beach's distribution system is made up of seven pressure zones: Bello, Shell Beach 1, Shell Beach 2, Pismo Oaks, Pacific Estates, Heights 2, and Heights 3. The distribution pipelines are made of 8-16 inch PVC, 4-6 inch cast

and ductile iron, and 4-12 inch asbestos cement. New pipelines are made of PVC and are at least eight inches in diameter. Distribution system pressures are maintained at between 33 and 140 psi. The system includes 50 dead ends and 706 valves, which are flushed and exercised every six months and every two years, respectively.

Pismo Beach is required to maintain adequate separation between its water supply lines and any pipelines conveying non-potable fluids and/or any waste disposal sites or other potential sources of contamination, as described in the California Waterworks Standards.

2.3.2 CROSS-CONNECTION CONTROL PROGRAM

A total of 342 backflow prevention devices are used to protect the water system from potential cross-connections. Pismo Beach is required to ensure that all of the necessary backflow prevention devices are tested annually. Roughly 10% are repaired or replaced each year, as shown in Table 5 below. Jon Williams from the County of San Luis Obispo Environmental Health Services is certified by AWWA as a Cross-Connection Control Specialist and coordinates the cross-connection control program for Pismo Beach.

Table 5: Backflow Prevention Device Testing Results

Year	Number Tested	Number Failed	Number Repaired
2013	382	36	31
2014	361	33	21
2015	309	35	33
2016	315	44	44

2.4 ELEMENT 4: FINISHED WATER STORAGE

Nine storage tanks provide Pismo Beach with approximately 5 million gallons of storage capacity. The tanks are constructed of concrete and steel. The steel tanks are equipped with active cathodic protection. They have common inlets and outlets, although the two Heights 2 tanks have interior duckbill manifolds to cause some mixing of the water. The tanks are routinely inspected and cleaned if necessary. The air vent of the Pacific Estates Tank 1 is highly corroded and in poor condition. **It is recommended that the vent on the Pacific Estates Tank 1 be replaced.** Details of the storage tanks are listed below in Table 6.

The roof of Bello reservoir was replaced with a floating cover in 2010. Pismo Beach installed a 60 mil thick reinforced polypropylene membrane cover. The cover is equipped with locked hatches and screened vents. It is also equipped with a dewatering system. Several channels on the cover direct water to a central pump, where it is then pumped away from the reservoir. A monthly report is submitted to DDW that lists the daily condition of the cover and any maintenance performed on the cover.

Table 6: Active Reservoir Info				
Name	Type	Year Built	Capacity (gal)	Inlet/Outlet
Bello	Partially Buried Concrete	1940	470,000	Common
Heights 2 North	Partially Buried Concrete	1952	220,000	Duckbill Manifold
Heights 2 South	Partially Buried Concrete	2013	220,000	Duckbill Manifold
Charles Street	Welded Steel	1930	420,000	Common
Pacific Estates 1	Welded Steel	1984	350,000	Common
Pacific Estates 2	Welded Steel	1989	850,000	Common
Shell Beach 1	Welded Steel	1975	1,000,000	Common
Shell Beach 2	Welded Steel	1989	1,000,000	Common
Pismo Oaks	Welded Steel	1984	800,000	Common

2.5 ELEMENT 5: PUMPS, PUMP FACILITIES, AND CONTROLS

Pismo Beach maintains six booster pump stations to move water from lower pressure zones to higher pressure zones. They have pumping capacities of between 340 and 1,860 gpm. Electric motors are used to power the pumps, and they have the ability to be powered by emergency generators when necessary. The booster stations are housed and secured. The pumps are activated by either distribution pressure, or by the water level in a reservoir. Portable generators can be connected to the booster stations if necessary.

Table 7: Booster Pump Station Info				
Name	# of Pumps	Capacity (gpm)	Delivers Water From	Delivers Water To
Pismo Oaks	2	~500	Bello Zone	Pismo Oaks Zone
Pacific Estates	2	~340	Bello Zone	Pacific Estates Zone
Bello	2	~400	Bello Zone	Heights 2 Zone
Heights II	6	~1,860	Heights 2 Zone	Heights 3 Zone
Shell Beach	2	~500	Shell Beach 1 Zone	Shell Beach 2 Zone
Bay Street	2	~700	Bello Zone	Shell Beach 1 Zone

2.6 ELEMENT 6: MONITORING, REPORTING, AND DATA VERIFICATION

2.6.1 SOURCE MONITORING

Pismo Beach is required to routinely monitor its groundwater sources for general physical parameters, general minerals, inorganic chemicals, radiological chemicals, volatile organic compounds (VOCs), synthetic organic compounds (SOCs), total coliform bacteria, and *E. coli*. Monitoring of the wells for asbestos has been waived.

2.6.1.1 CHEMICAL MONITORING

The tables below show the results of previous monitoring and the next due dates for future monitoring:

Table 8: Chemical Monitoring Frequency of Wells

Source Name & PS Code		General Physical & Minerals	Inorganic & Nitrite	Nitrate	Radio-logical	VOCs	Atrazine & Simazine
Well 5 4010008-005	Last Sample	2016	2016	2016	2015	2014	2014
	Frequency	3 Years	3 Years	Annually	6 Years	3 Years	9 Years
	Next Sample	2019	2019	**2017**	2021	**2017**	2023
Well 23 4010008-010	Last Sample	2016	2016	2016	2015	2014	2014
	Frequency	3 Years	3 Years	Annually	6 Years	3 Years	9 Years
	Next Sample	2019	2019	**2017**	2021	**2017**	2023

Table 9: Last Chemical Monitoring Results (Detected Chemicals Only)

	MCL	DLR	Lopez	Well 5	Well 23
Aggressive Index			12.9	12.0	11.8
Bicarbonate Alkalinity (mg/L)			279	370	280
Calcium (mg/L)			74	128	105
Chloride (mg/L)	500*		42	120	58
Color (Units)	15		3	ND	ND
Copper (µg/L)	1000	50	91	ND	70
Total Hardness as $CaCO_3$ (mg/L)			320	546	451
Iron (µg/L)	300	100	ND	250	ND
Magnesium (mg/L)			38	55	46
Manganese (µg/L)	50	20	ND	40	ND
Odor (Units)	3	1	2	ND	ND
pH			8.3	7.0	7.0
Sodium (mg/L)			44	56	63
Specific Conductance (µS/cm)	1600*		820	1350	1150
Sulfate (mg/L)	500*	0.5	125	170	219
Total Dissolved Solids (mg/L)	1000*		550	860	720
Turbidity (NTU)	5	0.1	0.1	1.3	0.2
Zinc (µg/L)	5000	50	ND	60	90
Arsenic (µg/L)	10	2	4	4	3
Fluoride (mg/L)	2	0.1	0.4	ND	0.2
Nitrate as N (mg/L)	10	0.4	ND	ND	1
Gross Alpha (pCi/L)	15†	3	ND	5.27	3.67
Uranium (pCi/L)	20	1	--	2.09	3.85
Langelier Index at 62 °F			0.9	-0.1	-0.3
Boron (µg/L)		100	ND	ND	100

Table 9: Last Chemical Monitoring Results (Detected Chemicals Only)					
	MCL	DLR	Lopez	Well 5	Well 23
Vanadium (µg/L)		3	5	5	7
Total Alkalinity as $CaCO_3$ (mg/L)			230	300	230
Potassium (mg/L)			--	3	3
Chlorite (mg/L)	1.0	0.02	0.4	--	--
Chlorate (mg/L)		0.02	0.5	--	--

*The values for TDS, SC, Cl^-, and SO_4^{2-} are upper values of MCL ranges for which no fixed MCL has been established.
†The Gross Alpha MCL of 15 pCi/L excludes radon and uranium.

Routine testing of the groundwater wells indicate that they meet all water quality standards.

2.6.1.2 BACTERIOLOGICAL MONITORING

To monitor the bacteriological quality of its raw groundwater, Pismo Beach tests each well in use quarterly for total coliform bacteria and *E. coli*. For compliance with the Groundwater Rule, Pismo Beach is also required to test its groundwater sources for bacteria when a routine distribution sample is positive for coliform bacteria. Table 10 below summarizes how many samples were collected each month, how many were positive for total coliform bacteria, and how many were positive for *E. coli*:

Table 10: Bacteriological Monitoring of Sources (Total Coliform and *E. coli*)				
Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2013	2-0-0	2-0-0	2-0-0	2-0-0
2014	2-0-0	2-0-0	2-0-0	2-0-0
2015	2-0-0	2-0-0	2-0-0	2-0-0
2016	2-0-0	2-0-0	2-0-0	2-0-0
2017	2-0-0	2-0-0	TBD	

Key: # of samples collected - # of total coliform positive results - # of *E. coli* positive results

2.6.2 DISTRIBUTION SYSTEM MONITORING

Pismo Beach is required to routinely monitor its distribution system for total coliform bacteria, fecal coliform bacteria, lead and copper, disinfection byproducts, chlorine residuals, and asbestos when the water has been determined to be aggressive.

2.6.2.1 BACTERIOLOGICAL MONITORING

Pismo Beach is required to test at least four samples for bacteria per week from its distribution system. Table 11 below summarizes the results:

Table 11: Bacteriological Monitoring of Distribution System (Total Coliform and *E. coli*)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2013	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0
2014	16-0-0	16-0-0	20-0-0	16-0-0	16-0-0	20-0-0	16-0-0	16-0-0	20-0-0	16-0-0	16-0-0	20-0-0
2015	16-0-0	16-0-0	20-0-0	16-0-0	16-0-0	20-0-0	16-0-0	20-0-0	16-0-0	16-0-0	20-0-0	16-0-0
2016	16-0-0	20-0-0	16-0-0	16-0-0	16-0-0	16-0-0	16-0-0	20-0-0	16-0-0	20-0-0	16-0-0	16-0-0
2017	20-0-0	16-0-0	16-0-0	18-0-0	20-0-0	16-0-0	TBD	TBD				

Key: # of samples collected - # of total coliform positive results - # of *E. coli* positive results

2.6.2.2 LEAD AND COPPER MONITORING

For compliance with the Lead and Copper Rule, Pismo Beach tests at least 20 samples collected from its customers' taps triennially. Lead and copper testing will be due again by September of 2017. Recent results are summarized in Table 12 below:

Table 12: Lead and Copper Monitoring of Distribution System				
Sampling Date	# of Samples	90th% Lead (mg/L)	90th% Copper (mg/L)	# of Samples > AL
7/1/2014	21	ND	0.323	1 (0.077 mg/L Pb)
2017	≥ 20	TBD	TBD	TBD

2.6.2.3 DISINFECTION BYPRODUCTS AND DISINFECTANT RESIDUALS MONITORING

Pismo Beach tests two distribution system locations for total trihalomethanes (TTHMs) and haloacetic acids five (HAA5) quarterly to comply with the routine monitoring requirements for disinfection byproducts. During the first quarter of 2015, Pismo Beach had two samples that tested above the MCL for total trihalomethanes of 80 µg/L. The maximum running annual average since 2013 was 68 µg/L, so Pismo Beach has remained in compliance during that time. The operational evaluation levels for both locations were 82 µg/L during the first quarter of 2015 however. An evaluation was conducted and determined that the cause of the elevated results was the temporary use of free chlorine instead of chloramines at the Lopez Project. Table 13 below summarizes the quarterly averages of the results:

Table 13: Averages of Disinfection Byproduct Monitoring of Distribution System																	
	'13 Q3	'13 Q4	'14 Q1	'14 Q2	'14 Q3	'14 Q4	'15 Q1	'15 Q2	'15 Q3	'15 Q4	'16 Q1	'16 Q2	'16 Q3	'16 Q4	'17 Q1	'17 Q2	'17 Q3
TTHMs (µg/L)	24	38	28	29	66	54	**105**	48	54	34	36	40	31	47	34	32	TBD
HAA5 (µg/L)	16	17	17	6	22	30	50	16	11	21	25	9	15	18	13	23	TBD

For compliance with the maximum residual disinfectant level for chlorine of 4.0 mg/L, Pismo Beach monitors its distribution system for chlorine residual when it collects its routine bacteriological samples. The monthly averages of the results are listed in Table 14 below:

Table 14: Chlorine Residuals Monitoring of Distribution System (mg/L)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2013	1.81	1.77	1.69	1.44	1.65	1.32	1.44	1.42	1.19	1.12	1.29	1.68
2014	1.66	1.62	1.57	1.73	1.12	1.62	1.27	1.42	1.24	1.44	1.18	1.18
2015	1.28	1.61	1.50	1.50	1.33	0.96	0.93	1.28	1.10	1.01	1.38	1.31
2016	1.31	1.32	1.08	0.98	1.13	1.10	0.99	1.18	1.40	1.37	0.89	0.96
2017	0.93	1.06	1.17	1.21	1.08	1.21	TBD	TBD				

2.6.3 RECORDKEEPING

Pismo Beach is required to maintain records on all complaints received and corrective actions taken, water quality, violations and corrective actions taken, sanitary surveys, variances or exemptions, public notices, and monitoring plans. The records are required to be retained for the lengths of time listed in Table 15 below:

Table 15: Water System Recordkeeping Lengths of Retention		
Subject	Documents	Length of Retention (After Use)
Complaints	Documentation and Action	5 Years
Microbial and Turbidity Analyses	Analyses Info and Results	5 Years
Chemical Analyses	Analyses Info and Results	10 Years
Violations	Documentation and Action	3 Years
Sanitary Surveys	Reports and Communications	10 Years
Variances or Exemptions	Documentation	5 Years
Public Notices	Copies of Notices	3 Years
Bacteriological Monitoring Plans	Copies of Plans	5 Years
Chemical Monitoring Plans	Copies of Plans	10 Years
Consumer Confidence Reports	Copies of Reports	3 Years
Lead and Copper	Analyses, Reports, Surveys…	18 Years

2.7 ELEMENT 7: SYSTEM MANAGEMENT AND OPERATIONS

2.7.1 ORGANIZATION AND PERSONNEL

The City of Pismo Beach was incorporated in 1946. Brandon Shea serves as Chief Operator, Russell Fleming serves as Utilities Manager, and Ben Fine serves as Public Works Director for the City. Pismo Beach operates with an approximately $5.7 million annual budget. Pismo Beach charges a variable base rate and variable usage rate to its customers to cover the costs of operation.

2.7.2 OPERATIONAL PLANS AND REPORTING

DDW has an Emergency Notification Plan on file for Pismo Beach dated 2016. Annual Reports are submitted to DDW and Consumer Confidence Reports are distributed to customers by July 1st every year. An Emergency Response Plan is on file dated 2004. A Bacteriological Sample Siting Plan was updated in 2012.

The 2016 Consumer Confidence Report had a few errors or omissions in it. In 2014, one site tested for lead and copper exceeded the action level for lead. This was not indicated in the 2016 Consumer Confidence Report. The report also references the California Department of Public Health, although this should be changed to the State Water Resources Control Board. The report mentions that vulnerability assessments have been completed for Wells 5 and 23, but no summary of the assessments is provided. **The 2017 Consumer Confidence Report shall be submitted to DDW for review and approval before it is issued in 2018.**

2.8 ELEMENT 8: OPERATOR COMPLIANCE WITH STATE REQUIREMENTS

Pismo Beach's distribution system is classified as a D3 distribution system and its chlorination treatment facilities are classified as a D1 or T1 facilities. Pismo Beach employs four D2-D3 certified operators to meet the distribution operator requirements. Pismo Beach employs three T2 certified operators to meet the treatment operator requirements. All operators' certifications are up to date.

Table 16: Water System Facility Operator Certification Classifications

Facility Name	Sampling Point ID(s)	Classification Required
Distribution System	015, 016	D3
Well 5 Chlorination	013	D1 or T1
Well 23 Chlorination	014	D1 or T1

Table 17: Water System Sampling Point Locations

Facility Name	Location	PS Code
Well 5	Grover Beach	4010008-005
Well 23	Grover Beach	4010008-010
Lopez	Multiple	4010008-011
Well 5 Chlorination	Grover Beach	4010008-013
Well 23 Chlorination	Grover Beach	4010008-014
114 Bluff Drive	Bluff Drive	4010008-015
Dinosaur Cave Park	Cliff Avenue	4010008-016

III. CONCLUSIONS

The review of Pismo Beach's water system indicates that the water system is designed, constructed, operated, and managed well. The sources, storage tanks, booster stations, and distribution system generally meet state requirements. A review of the routine water quality monitoring results indicates that Pismo Beach's water sources meet all applicable maximum contaminant levels. Deficiencies identified include not having adequate backflow protection on Well 5's waste discharge line and a few errors or omissions in the 2016 Consumer Confidence Report.

Enclosure 2

Sanitary Survey Response Form

To: State Water Resources Control Board
Division of Drinking Water
1180 Eugenia Place, Suite 200
Carpinteria, CA 93013-2000

From: Pismo Beach Public Works Department
760 Mattie Road
Pismo Beach, CA 93449

Pismo Beach Public Words Department's response to and plan to correct the identified items:

1. The pump to waste discharge line for Well 5 extends into a collar that is used to direct water to a percolation sump. The line does not have a proper backflow prevention device on it. To prevent the possibility of backflow from the percolation sump into Well 5's discharge line, an air gap shall be provided between the rim of the collar and the end of the well's pump to waste discharge line.

Response:

2. The 2016 Consumer Confidence Report had a few errors or omissions in it. In 2014, one lead and copper site exceeded the action level for lead. This was not indicated in the 2016 Consumer Confidence Report. The report also references the California Department of Public Health, although this should be changed to the State Water Resources Control Board. The report also mentions that vulnerability assessments have been completed for Wells 5 and 23, but no summary of the assessments is provided. The 2017 Consumer Confidence Report shall be submitted to DDW for review and approval before it is issued in 2018.

Response:

3. The vent on the top of the Pacific Estates Tank 1 is highly corroded and in poor condition. It is recommended that the vent on the Pacific Estates Tank 1 be replaced.

Response:

4. It is understood that the City of Pismo Beach is planning to construct a recycled water groundwater recharge system within the next few years. Please continue to update DDW on the progress of this recycled water project.

Response:

Response Completed by:

Signature:

Name:

Title:

Date:

Enclosure 3

Last Sample Date and Monitoring Schedule

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: 005 NAME: WELL 05 CLASS: LARG STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 005		**PISMO BEACH WATER DEPARTMENT**			**005**	**WELL 05**								
	GP	**SECONDARY/GP**												
		82383	AGGRSSIVE INDEX (CORROSIVITY)		12.0		--------	--------	2016/03/10	9	36	M	2019/03	
		00440	BICARBONATE ALKALINITY		370	MG/L	--------	--------	2016/03/10	11	36		2019/03	
		00916	CALCIUM		128	MG/L	--------	--------	2016/03/10	13	36		2019/03	
		00445	CARBONATE ALKALINITY	<	10	MG/L	--------	--------	2016/03/10	10	36		2019/03	
		00940	CHLORIDE		120	MG/L	500	--------	2016/03/10	11	36		2019/03	
		00081	COLOR	<	5	UNITS	15	--------	2016/03/10	11	36		2019/03	
		01042	COPPER		30	UG/L	1000	50	2016/03/10	11	36		2019/03	
		38260	FOAMING AGENTS (MBAS)	<	0.1	MG/L	.5	--------	2016/03/10	11	36		2019/03	
		00900	HARDNESS (TOTAL) AS CACO3		546	MG/L	--------	--------	2016/03/10	12	36		2019/03	
		71830	HYDROXIDE ALKALINITY	<	10	MG/L	--------	--------	2016/03/10	10	36		2019/03	
		01045	IRON		230	UG/L	300	100	2016/08/09	16	36		2019/08	
		00927	MAGNESIUM		55	MG/L	--------	--------	2016/03/10	13	36		2019/03	
		01055	MANGANESE		40	UG/L	50	20	2016/03/10	11	36		2019/03	
		00086	ODOR THRESHOLD @ 60 C	<	1	TON	3	1	2016/03/10	11	36		2019/03	
		00403	PH, LABORATORY		7.0		--------	--------	2016/03/10	18	36		2019/03	
		01077	SILVER	<	1	UG/L	100	10	2016/03/03	11	36		2019/03	
		00929	SODIUM		56	MG/L	--------	--------	2016/03/10	12	36		2019/03	
		00095	SPECIFIC CONDUCTANCE		1350	US	1600	--------	2016/03/10	10	36		2019/03	
		00945	SULFATE		170	MG/L	500	.5	2016/03/10	11	36		2019/03	
		70300	TOTAL DISSOLVED SOLIDS		860	MG/L	1000	--------	2016/03/10	11	36		2019/03	
		82079	TURBIDITY, LABORATORY		1.3	NTU	5	.1	2016/03/10	11	36		2019/03	
		01092	ZINC		60	UG/L	5000	50	2016/03/10	11	36		2019/03	
	IO	**INORGANIC**												
		01105	ALUMINUM	<	10	UG/L	1000	50	2016/03/03	11	36		2019/03	

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: NAME: WELL 05 CLASS: LARG STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 005	**IO**	**INORGANIC**												
		01097	ANTIMONY	<	1	UG/L	6	6	2016/03/03	8	36		2019/03	
		01002	ARSENIC		4	UG/L	10	2	2016/03/03	13	36		2019/03	
		01007	BARIUM		35.6	UG/L	1000	100	2016/03/03	11	36		2019/03	
		01012	BERYLLIUM	<	1	UG/L	4	1	2016/03/03	8	36		2019/03	
		01027	CADMIUM		0.5	UG/L	5	1	2016/03/03	11	36		2019/03	
		01034	CHROMIUM (TOTAL)		7	UG/L	50	10	2016/03/03	11	36		2019/03	
		00951	FLUORIDE (F) (NATURAL-SOURCE)	<	0.1	MG/L	2	.1	2016/03/10	12	36		2019/03	
		71900	MERCURY	<	0.02	UG/L	2	1	2016/03/03	11	36		2019/03	
		01067	NICKEL		1	UG/L	100	10	2016/03/03	9	36		2019/03	
		A-031	PERCHLORATE	<	2.0000	UG/L	6	4	2014/01/06	8	36		2017/01	DUE NOW
		01147	SELENIUM		2	UG/L	50	5	2016/03/03	11	36		2019/03	
		01059	THALLIUM	<	0.2	UG/L	2	1	2016/03/03	8	36		2019/03	
	NI	**NITRATE/NITRITE**												
		00618	NITRATE (AS N)	<	0.1	mg/L	10	.4	2016/03/10	29	12		2017/03	DUE NOW
		00620	NITRITE (AS N)	<	0.2	mg/L	1	.4	2016/03/10	16	36		2019/03	
	RA	**RADIOLOGICAL**												
		01501	GROSS ALPHA		5.2700	PCI/L	15	3	2015/06/01	16	72	M	2021/06	
		28012	URANIUM (PCI/L)		2.0900	PCI/L	20	1	2015/06/01	4	72	M	2021/06	
	S1	**REGULATED VOC**												
		34506	1,1,1-TRICHLOROETHANE	<	.5000	UG/L	200	.5	2014/03/03	9	36		2017/03	DUE NOW
		34516	1,1,2,2-TETRACHLOROETHANE	<	.5000	UG/L	1	.5	2014/03/03	9	36		2017/03	DUE NOW
		34511	1,1,2-TRICHLOROETHANE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34496	1,1-DICHLOROETHANE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34501	1,1-DICHLOROETHYLENE	<	.5000	UG/L	6	.5	2014/03/03	9	36		2017/03	DUE NOW
		34551	1,2,4-TRICHLOROBENZENE	<	.5000	UG/L	5	.5	2014/03/03	8	36		2017/03	DUE NOW

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: NAME: WELL 05 CLASS: LARG STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 005	**S1**	34536	1,2-DICHLOROBENZENE	<	.5000	UG/L	600	.5	2014/03/03	9	36		2017/03	DUE NOW
		34531	1,2-DICHLOROETHANE	<	.5000	UG/L	.5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34541	1,2-DICHLOROPROPANE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34561	1,3-DICHLOROPROPENE (TOTAL)	<	.5000	UG/L	.5	.5	2014/03/03	8	36		2017/03	DUE NOW
		34571	1,4-DICHLOROBENZENE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34030	BENZENE	<	.5000	UG/L	1	.5	2014/03/03	10	36		2017/03	DUE NOW
		32102	CARBON TETRACHLORIDE	<	.5000	UG/L	.5	.5	2014/03/03	9	36		2017/03	DUE NOW
		77093	CIS-1,2-DICHLOROETHYLENE	<	.5000	UG/L	6	.5	2014/03/03	8	36		2017/03	DUE NOW
		34423	DICHLOROMETHANE	<	.5000	UG/L	5	.5	2014/03/03	8	36		2017/03	DUE NOW
		34371	ETHYLBENZENE	<	.5000	UG/L	300	.5	2014/03/03	10	36		2017/03	DUE NOW
		46491	METHYL-TERT-BUTYL-ETHER (MTBE)	<	1	UG/L	13	3	2016/03/03	21	36		2019/03	
		34301	MONOCHLOROBENZENE	<	.5000	UG/L	70	.5	2014/03/03	9	36		2017/03	DUE NOW
		77128	STYRENE	<	.5000	UG/L	100	.5	2014/03/03	9	36		2017/03	DUE NOW
		34475	TETRACHLOROETHYLENE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34010	TOLUENE	<	.5000	UG/L	150	.5	2014/03/03	12	36		2017/03	DUE NOW
		34546	TRANS-1,2-DICHLOROETHYLENE	<	.5000	UG/L	10	.5	2014/03/03	9	36		2017/03	DUE NOW
		39180	TRICHLOROETHYLENE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34488	TRICHLOROFLUOROMETHANE	<	.5000	UG/L	150	5	2014/03/03	9	36		2017/03	DUE NOW
		81611	TRICHLOROTRIFLUOROETHANE (FREON 113)	<	.5000	UG/L	1200	10	2014/03/03	9	36		2017/03	DUE NOW
		39175	VINYL CHLORIDE	<	.5000	UG/L	.5	.5	2014/03/03	9	36		2017/03	DUE NOW
		81551	XYLENES (TOTAL)	<	.5000	UG/L	1750	0.5	2014/03/03	9	36		2017/03	DUE NOW
	S2	**REGULATED SOC**												
		39033	ATRAZINE	<	.5000	UG/L	1	.5	2014/03/03	7	108		2023/03	
		39055	SIMAZINE	<	.5000	UG/L	4	1	2014/03/03	6	108		2023/03	

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: 010 NAME: WELL 22/23 (1990)/HUBER WELL CLASS: LARG STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 010		**PISMO BEACH WATER DEPARTMENT**			**010**	**WELL 22/23 (1990)/HUBER WELL**								
	GP	**SECONDARY/GP**												
		82383	AGGRSSIVE INDEX (CORROSIVITY)		11.8		--------	--------	2016/03/10	9	36	M	2019/03	
		00440	BICARBONATE ALKALINITY		280	MG/L	--------	--------	2016/03/10	10	36		2019/03	
		00916	CALCIUM		105	MG/L	--------	--------	2016/03/10	12	36		2019/03	
		00445	CARBONATE ALKALINITY	<	10	MG/L	--------	--------	2016/03/10	10	36		2019/03	
		00940	CHLORIDE		58	MG/L	500	--------	2016/03/10	10	36		2019/03	
		00081	COLOR	<	5	UNITS	15	--------	2016/03/10	10	36		2019/03	
		01042	COPPER		70	UG/L	1000	50	2016/03/10	10	36		2019/03	
		38260	FOAMING AGENTS (MBAS)	<	0.1	MG/L	.5	--------	2016/03/10	10	36		2019/03	
		00900	HARDNESS (TOTAL) AS CACO3		451	MG/L	--------	--------	2016/03/10	11	36		2019/03	
		71830	HYDROXIDE ALKALINITY	<	10	MG/L	--------	--------	2016/03/10	10	36		2019/03	
		01045	IRON		30	UG/L	300	100	2016/03/10	11	36		2019/03	
		00927	MAGNESIUM		46	MG/L	--------	--------	2016/03/10	12	36		2019/03	
		01055	MANGANESE		10	UG/L	50	20	2016/03/10	10	36		2019/03	
		00086	ODOR THRESHOLD @ 60 C	<	1	TON	3	1	2016/03/10	10	36		2019/03	
		00403	PH, LABORATORY		7.0		--------	--------	2016/03/10	16	36		2019/03	
		01077	SILVER	<	1	UG/L	100	10	2016/03/03	10	36		2019/03	
		00929	SODIUM		63	MG/L	--------	--------	2016/03/10	11	36		2019/03	
		00095	SPECIFIC CONDUCTANCE		1150	US	1600	--------	2016/03/10	10	36		2019/03	
		00945	SULFATE		219	MG/L	500	.5	2016/03/10	10	36		2019/03	
		70300	TOTAL DISSOLVED SOLIDS		720	MG/L	1000	--------	2016/03/10	10	36		2019/03	
		82079	TURBIDITY, LABORATORY		0.2	NTU	5	.1	2016/03/10	10	36		2019/03	
		01092	ZINC		90	UG/L	5000	50	2016/03/10	10	36		2019/03	
	IO	**INORGANIC**												
		01105	ALUMINUM	<	10	UG/L	1000	50	2016/03/03	10	36		2019/03	

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: NAME: WELL 22/23 (1990)/HUBER WELL CLASS: LARG STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 010	**IO**	**INORGANIC**												
		01097	ANTIMONY	<	1	UG/L	6	6	2016/03/03	9	36		2019/03	
		01002	ARSENIC		3	UG/L	10	2	2016/03/03	12	36		2019/03	
		01007	BARIUM		41.3	UG/L	1000	100	2016/03/03	10	36		2019/03	
		01012	BERYLLIUM	<	1	UG/L	4	1	2016/03/03	9	36		2019/03	
		01027	CADMIUM	<	0.2	UG/L	5	1	2016/03/03	10	36		2019/03	
		01034	CHROMIUM (TOTAL)		5	UG/L	50	10	2016/03/03	10	36		2019/03	
		00951	FLUORIDE (F) (NATURAL-SOURCE)		0.2	MG/L	2	.1	2016/03/10	11	36		2019/03	
		71900	MERCURY	<	0.02	UG/L	2	1	2016/03/03	10	36		2019/03	
		01067	NICKEL	<	1	UG/L	100	10	2016/03/03	10	36		2019/03	
		A-031	PERCHLORATE	<	2.0000	UG/L	6	4	2014/01/06	6	36		2017/01	DUE NOW
		01147	SELENIUM		2	UG/L	50	5	2016/03/03	10	36		2019/03	
		01059	THALLIUM	<	0.2	UG/L	2	1	2016/03/03	9	36		2019/03	
	NI	**NITRATE/NITRITE**												
		00618	NITRATE (AS N)		1	mg/L	10	.4	2016/03/10	29	12		2017/03	DUE NOW
		00620	NITRITE (AS N)	<	0.2	mg/L	1	.4	2016/03/10	19	36		2019/03	
	RA	**RADIOLOGICAL**												
		01501	GROSS ALPHA		3.6700	PCI/L	15	3	2015/06/01	15	72	M	2021/06	
	S1	**REGULATED VOC**												
		34506	1,1,1-TRICHLOROETHANE	<	.5000	UG/L	200	.5	2014/03/03	9	36		2017/03	DUE NOW
		34516	1,1,2,2-TETRACHLOROETHANE	<	.5000	UG/L	1	.5	2014/03/03	9	36		2017/03	DUE NOW
		34511	1,1,2-TRICHLOROETHANE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34496	1,1-DICHLOROETHANE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34501	1,1-DICHLOROETHYLENE	<	.5000	UG/L	6	.5	2014/03/03	9	36		2017/03	DUE NOW
		34551	1,2,4-TRICHLOROBENZENE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34536	1,2-DICHLOROBENZENE	<	.5000	UG/L	600	.5	2014/03/03	9	36		2017/03	DUE NOW

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: NAME: WELL 22/23 (1990)/HUBER WELL CLASS: LARG STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 010	**S1**	34531	1,2-DICHLOROETHANE	<	.5000	UG/L	.5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34541	1,2-DICHLOROPROPANE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34561	1,3-DICHLOROPROPENE (TOTAL)	<	.5000	UG/L	.5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34571	1,4-DICHLOROBENZENE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34030	BENZENE	<	.5000	UG/L	1	.5	2014/03/03	9	36		2017/03	DUE NOW
		32102	CARBON TETRACHLORIDE	<	.5000	UG/L	.5	.5	2014/03/03	9	36		2017/03	DUE NOW
		77093	CIS-1,2-DICHLOROETHYLENE	<	.5000	UG/L	6	.5	2014/03/03	9	36		2017/03	DUE NOW
		34423	DICHLOROMETHANE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34371	ETHYLBENZENE	<	.5000	UG/L	300	.5	2014/03/03	9	36		2017/03	DUE NOW
		46491	METHYL-TERT-BUTYL-ETHER (MTBE)	<	1	UG/L	13	3	2016/03/03	18	36		2019/03	
		34301	MONOCHLOROBENZENE	<	.5000	UG/L	70	.5	2014/03/03	9	36		2017/03	DUE NOW
		77128	STYRENE	<	.5000	UG/L	100	.5	2014/03/03	9	36		2017/03	DUE NOW
		34475	TETRACHLOROETHYLENE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34010	TOLUENE	<	.5000	UG/L	150	.5	2014/03/03	9	36		2017/03	DUE NOW
		34546	TRANS-1,2-DICHLOROETHYLENE	<	.5000	UG/L	10	.5	2014/03/03	9	36		2017/03	DUE NOW
		39180	TRICHLOROETHYLENE	<	.5000	UG/L	5	.5	2014/03/03	9	36		2017/03	DUE NOW
		34488	TRICHLOROFLUOROMETHANE	<	.5000	UG/L	150	5	2014/03/03	9	36		2017/03	DUE NOW
		81611	TRICHLOROTRIFLUOROETHANE (FREON 113)	<	.5000	UG/L	1200	10	2014/03/03	9	36		2017/03	DUE NOW
		39175	VINYL CHLORIDE	<	.5000	UG/L	.5	.5	2014/03/03	9	36		2017/03	DUE NOW
		81551	XYLENES (TOTAL)	<	.5000	UG/L	1750	0.5	2014/03/03	9	36		2017/03	DUE NOW
	S2	**REGULATED SOC**												
		39033	ATRAZINE	<	.5000	UG/L	1	.5	2014/03/03	9	108		2023/03	
		39055	SIMAZINE	<	.5000	UG/L	4	1	2014/03/03	9	108		2023/03	

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: 015 NAME: 114 BLUFFS DR - STAGE 2 DBP CLASS: DBPA STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 015		**PISMO BEACH WATER DEPARTMENT**			**015**	**114 BLUFFS DR - STAGE 2 DBP**								
	DBP	**DISINFECTION BYPRODUCTS**												
		32101	BROMODICHLOROMETHANE (THM)		12	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		32104	BROMOFORM (THM)	<	1	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		32106	CHLOROFORM (THM)		20	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		82721	DIBROMOACETIC ACID (DBAA)		3	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		32105	DIBROMOCHLOROMETHANE (THM)		6	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		77288	DICHLOROACETIC ACID (DCAA)		20	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		A-049	HALOACETIC ACIDS (5) (HAA5)		31	UG/L	60	--------	2017/08/04	23	3	M	2017/11	
		A-041	MONOBROMOACETIC ACID (MBAA)	<	1	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		A-042	MONOCHLOROACETIC ACID (MCAA)	<	2	UG/L	--------	2	2017/08/04	23	3	M	2017/11	
		82080	TOTAL TRIHALOMETHANES		38	UG/L	80	--------	2017/08/04	23	3	M	2017/11	
		82723	TRICHLOROACETIC ACID (TCAA)		8	UG/L	--------	1	2017/08/04	23	3	M	2017/11	

LAST SAMPLE DATE AND MONITORING SCHEDULE

SYSTEM NO: 4010008 NAME: PISMO BEACH WATER DEPARTMENT COUNTY: SAN LUIS OBISPO

SOURCE NO: 016 NAME: DINOSAUR CAVE PARK - STAGE 2 DBP CLASS: DBPA STATUS: Active

PSCODE		GROUP/CONSTITUENT IDENTIFICATION			LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	COUNT	FREQ MONTHS	MOD	NEXT SAMPLE DUE	NOTES
4010008 - 016		**PISMO BEACH WATER DEPARTMENT**			**016**	**DINOSAUR CAVE PARK - STAGE 2 DBP**								
	DBP	**DISINFECTION BYPRODUCTS**												
		32101	BROMODICHLOROMETHANE (THM)		13	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		32104	BROMOFORM (THM)	<	1	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		32106	CHLOROFORM (THM)		22	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		82721	DIBROMOACETIC ACID (DBAA)		3	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		32105	DIBROMOCHLOROMETHANE (THM)		6	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		77288	DICHLOROACETIC ACID (DCAA)		17	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		A-049	HALOACETIC ACIDS (5) (HAA5)		27	UG/L	60	--------	2017/08/04	23	3	M	2017/11	
		A-041	MONOBROMOACETIC ACID (MBAA)	<	1	UG/L	--------	1	2017/08/04	23	3	M	2017/11	
		A-042	MONOCHLOROACETIC ACID (MCAA)	<	2	UG/L	--------	2	2017/08/04	23	3	M	2017/11	
		82080	TOTAL TRIHALOMETHANES		41	UG/L	80	--------	2017/08/04	23	3	M	2017/11	
		82723	TRICHLOROACETIC ACID (TCAA)		7	UG/L	--------	1	2017/08/04	23	3	M	2017/11	