

Definitions

DLR: Detection Limit for Reporting. The detection level for reporting is set by federal or state regulation for each reportable analyte. It is not laboratory specific.

MDL: Method Detection Limit. Lowest quantifiable concentration of a measured analyte. MDL's are instrument and laboratory specific. The MDL must be equal to or lower than the DLR.

ND: Not Detected. The result value from analysis was below our laboratory MDL.

MCL: Maximum Contaminant Level. The highest level of a contaminant that regulations allow in drinking water. Primary MCLs are set as low as economically or technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water. Water sources can have MCL violations from a single sample, or from an average of several samples, from the same source sampled over time.

AL: Regulatory Action Level. If a water system exceeds an Action Level, it must take certain actions such as additional monitoring, corrosion control studies and treatment, and for Lead, a public education program; replaces MCL for certain analytes.

A: Absent

TCR: Total Coliform Rule. The State Division of Drinking Water regulations require the City to test a minimum of 85 samples per week from throughout our distribution system for Total Coliform and E.coli, and to report the results, including the percentage of total Coliform positive samples in a given month. To meet this requirement, in 2015 the City of San Diego collected and analyzed 6796 samples from the distribution system (an average of over 130 per week) for Total Coliform and E. coli. The MCL is 5.0%; this means that if more than 5.0% of the samples collected each month are total coliform positive, a violation of the MCL has occurred. The regulations are written as a percentage of monthly samples because multiple variables can cause a positive result, including localized contamination at the tap. When any sample tests positive, three repeat samples are collected and the cause of the positive result is investigated.

Units used in this report

MG/L: milligrams per liter, or PPM (parts per million) - [1 ppm = 1,000 ppb]

UG/L: micrograms per liter, or PPB (parts per billion) - [1 ppb = 0.001 ppm]

NG/L: nanograms per liter, or PPT (parts per trillion) – [1 ppt = 0.001 ppb]

ODOR: odor threshold units

COLOR: apparent color.

DEGREE_C: temperature in centigrade.

/100 ML: per 100 milliliters of sample.

CFU/ML: colony forming units per millileter (the number of viable cell colonies per millimeter)

PH: potential of hydrogen.

NTU: nephelometric turbidity units. The measurement of scattered light from a sample at 90 degrees.

Context / Notes:

Included in the document is data from 2017 from three sources:

- 95 SYS, which is treated water from the Otay Water Treatment Plant, located on the southern edge of Otay Reservoir
- 201 SYS, which is our sample point near Smythe Elementary, at approximately 1880 Smythe Ave.
- 200 SYS, which is our sample point at Otay Mesa Road and Beyer Blvd, just down the road from San Ysidro Middle School

Notes on the data:

- In response to the concern about lead in the San Ysidro schools, we sampled 200 SYS and 201 SYS for lead, copper, and bacteria on Wednesday, February 8th. Lead values at both sites were below our laboratory MDL of 0.5 ug/L; Copper values were less than 10 ug/L, far below the Action Level of 1300 ug/L. Total Coliform and E.coli, bacteria we measure as part of the Total Coliform Rule, were both Absent, i.e. not detected.

City of San Diego Public Utilities Department
Environmental Monitoring and Technical Services
Water Quality Chemistry Services
ELAP Certificate #1058



City of San Diego Source ID: 95 SYS
 Sample Site: Otay Treatment Plant Effluent
 1500 Wueste Rd.

Environmental Monitoring and Technical Services
 2392 Kincaid Road MS 45A. San Diego, CA 92101
 Tel(619) 758-2300 Fax (619) 758-2309

SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
10-Jan-17	W1148322	Ammonia-N	0.823	MG/L	0.031		
17-Jan-17	W1148832	Ammonia-N	0.75	MG/L	0.031		
24-Jan-17	W1150289	Ammonia-N	0.563	MG/L	0.031		
10-Jan-17	W1148322	Nitrate & Nitrite	0.3	MG/L	0.078		
17-Jan-17	W1148832	Nitrate & Nitrite	0.442	MG/L	0.078		
24-Jan-17	W1150289	Nitrate & Nitrite	0.939	MG/L	0.078		
10-Jan-17	W1148322	Nitrate (as NO3)	0.302	MG/L			
17-Jan-17	W1148832	Nitrate (as NO3)	0.44	MG/L			
24-Jan-17	W1150289	Nitrate (as NO3)	0.93	MG/L			
10-Jan-17	W1148322	Nitrite (NO2)	ND	MG/L	0.0156	1.31	3.42
17-Jan-17	W1148832	Nitrite (NO2)	ND	MG/L	0.0156	1.31	3.42
24-Jan-17	W1150289	Nitrite (NO2)	ND	MG/L	0.0156	1.31	3.42
9-Jan-17	W1147913	2-Methylisoborneol	ND	NG/L	5		
17-Jan-17	W1148871	2-Methylisoborneol	ND	NG/L	5		
23-Jan-17	W1150162	2-Methylisoborneol	ND	NG/L	5		
10-Jan-17	W1148323	Bromodichloromethane	13	UG/L	1	1	
24-Jan-17	W1150290	Bromodichloromethane	7.04	UG/L	1	1	
10-Jan-17	W1148323	Bromoform	14.2	UG/L	1	1	
24-Jan-17	W1150290	Bromoform	2.4	UG/L	1	1	
10-Jan-17	W1148323	Chlorodibromomethane	22.4	UG/L	1	1	
24-Jan-17	W1150290	Chlorodibromomethane	7.19	UG/L	1	1	
10-Jan-17	W1148323	Chloroform (Trichloromethane)	4.42	UG/L	1	1	
24-Jan-17	W1150290	Chloroform (Trichloromethane)	5.97	UG/L	1	1	
10-Jan-17	W1148323	Total Trihalomethanes (TTHMs)	54	UG/L	1	1	80
24-Jan-17	W1150290	Total Trihalomethanes (TTHMs)	22.6	UG/L	1	1	80
10-Jan-17	W1148324	Trichloroacetic Acid (TCAA)	1.23	UG/L	1	1	
3-Jan-17	W1145245	Total Organic Carbon (TOC)	2.2	MG/L	0.3	0.3	
17-Jan-17	W1145269	Total Organic Carbon (TOC)	5.42	MG/L	0.3	0.3	
23-Jan-17	W1145281	Total Organic Carbon (TOC)	2.22	MG/L	0.3	0.3	
10-Jan-17	W1148284	Total Toxaphene	ND	UG/L	1	1	3
10-Jan-17	W1148324	Dalapon	ND	UG/L	2	10	200
10-Jan-17	W1148324	Dibromoacetic Acid (DBAA)	7.81	UG/L	1	1	
10-Jan-17	W1148283	Dibromochloropropane (DBCP)	ND	UG/L	0.01	0.01	0.2
10-Jan-17	W1148324	Dichloroacetic Acid (DCAA)	3.58	UG/L	1	1	
10-Jan-17	W1148324	Monobromoacetic Acid (MBAA)	ND	UG/L	1	1	
10-Jan-17	W1148324	Monochloroacetic Acid (MCAA)	ND	UG/L	2	2	
10-Jan-17	W1148324	Haloacetic Acids (five) (HAA5)	12.6	UG/L	1	1	60
10-Jan-17	W1148284	Aldrin	ND	UG/L	0.075	0.075	
10-Jan-17	W1148284	Chlordane	ND	UG/L	0.1	0.1	0.1

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SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
10-Jan-17	W1148284	Dieldrin	ND	UG/L	0.02	0.02	
10-Jan-17	W1148284	Endrin	ND	UG/L	0.1	0.1	2
10-Jan-17	W1148283	Ethylene Dibromide (EDB)	ND	UG/L	0.02	0.02	0.05
9-Jan-17	W1147913	Geosmin	ND	NG/L	5		
17-Jan-17	W1148871	Geosmin	ND	NG/L	5		
23-Jan-17	W1150162	Geosmin	ND	NG/L	5		
10-Jan-17	W1148284	Heptachlor	ND	UG/L	0.01	0.01	0.01
10-Jan-17	W1148284	Heptachlor Epoxide	ND	UG/L	0.01	0.01	0.01
10-Jan-17	W1148284	Hexachlorobenzene	ND	UG/L	0.5	0.5	1
10-Jan-17	W1148284	Hexachlorocyclopentadiene	ND	UG/L	0.2	1	50
10-Jan-17	W1148284	Lindane (gamma-BHC)	ND	UG/L	0.2	0.2	0.2
10-Jan-17	W1148284	Methoxychlor	ND	UG/L	0.5	10	30
10-Jan-17	W1148284	Propachlor	ND	UG/L	0.5	0.5	
1-Jan-17	W1148710	Turbidity, Laboratory	0.04	NTU			
2-Jan-17	W1148711	Turbidity, Laboratory	0.04	NTU			
3-Jan-17	W1148712	Turbidity, Laboratory	0.04	NTU			
4-Jan-17	W1148713	Turbidity, Laboratory	0.04	NTU			
5-Jan-17	W1148714	Turbidity, Laboratory	0.04	NTU			
6-Jan-17	W1148715	Turbidity, Laboratory	0.05	NTU			
7-Jan-17	W1148716	Turbidity, Laboratory	0.06	NTU			
15-Jan-17	W1150840	Turbidity, Laboratory	0.08	NTU			
16-Jan-17	W1150841	Turbidity, Laboratory	0.07	NTU			
17-Jan-17	W1150842	Turbidity, Laboratory	0.07	NTU			
18-Jan-17	W1150843	Turbidity, Laboratory	0.06	NTU			
19-Jan-17	W1150844	Turbidity, Laboratory	0.05	NTU			
20-Jan-17	W1150845	Turbidity, Laboratory	0.05	NTU			
21-Jan-17	W1150846	Turbidity, Laboratory	0.04	NTU			
22-Jan-17	W1153776	Turbidity, Laboratory	0.04	NTU			
23-Jan-17	W1153777	Turbidity, Laboratory	0.04	NTU			
24-Jan-17	W1153778	Turbidity, Laboratory	0.04	NTU			
25-Jan-17	W1153779	Turbidity, Laboratory	0.04	NTU			
26-Jan-17	W1153780	Turbidity, Laboratory	0.04	NTU			
27-Jan-17	W1153781	Turbidity, Laboratory	0.04	NTU			
28-Jan-17	W1153782	Turbidity, Laboratory	0.04	NTU			
1-Jan-17	W1148710	Odor Threshold @ 60 C	1.2	ODOR	1	1	
2-Jan-17	W1148711	Odor Threshold @ 60 C	1.1	ODOR	1	1	
3-Jan-17	W1148712	Odor Threshold @ 60 C	1.4	ODOR	1	1	
4-Jan-17	W1148713	Odor Threshold @ 60 C	1.1	ODOR	1	1	
5-Jan-17	W1148714	Odor Threshold @ 60 C	1.1	ODOR	1	1	

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6-Jan-17	W1148715	Odor Threshold @ 60 C	1.3	ODOR	1	1	
7-Jan-17	W1148716	Odor Threshold @ 60 C	1.1	ODOR	1	1	
8-Jan-17	W1149699	Odor Threshold @ 60 C	1.1	ODOR	1	1	
9-Jan-17	W1149700	Odor Threshold @ 60 C	1.1	ODOR	1	1	
10-Jan-17	W1149701	Odor Threshold @ 60 C	1.3	ODOR	1	1	
11-Jan-17	W1149702	Odor Threshold @ 60 C	1.4	ODOR	1	1	
12-Jan-17	W1149703	Odor Threshold @ 60 C	1.4	ODOR	1	1	
13-Jan-17	W1149704	Odor Threshold @ 60 C	1.4	ODOR	1	1	
14-Jan-17	W1149705	Odor Threshold @ 60 C	1.1	ODOR	1	1	
15-Jan-17	W1150840	Odor Threshold @ 60 C	1.1	ODOR	1	1	
16-Jan-17	W1150841	Odor Threshold @ 60 C	1.3	ODOR	1	1	
17-Jan-17	W1150842	Odor Threshold @ 60 C	1.1	ODOR	1	1	
18-Jan-17	W1150843	Odor Threshold @ 60 C	1.3	ODOR	1	1	
19-Jan-17	W1150844	Odor Threshold @ 60 C	1.1	ODOR	1	1	
20-Jan-17	W1150845	Odor Threshold @ 60 C	1.1	ODOR	1	1	
21-Jan-17	W1150846	Odor Threshold @ 60 C	1.4	ODOR	1	1	
22-Jan-17	W1153776	Odor Threshold @ 60 C	1.2	ODOR	1	1	
23-Jan-17	W1153777	Odor Threshold @ 60 C	1.3	ODOR	1	1	
24-Jan-17	W1153778	Odor Threshold @ 60 C	1.2	ODOR	1	1	
25-Jan-17	W1153779	Odor Threshold @ 60 C	1.2	ODOR	1	1	
26-Jan-17	W1153780	Odor Threshold @ 60 C	1.1	ODOR	1	1	
27-Jan-17	W1153781	Odor Threshold @ 60 C	1	ODOR	1	1	
28-Jan-17	W1153782	Odor Threshold @ 60 C	1	ODOR	1	1	
9-Jan-17	W1147912	Heterotrophic Bacteria (HPC)	<1	CFU/ML			
17-Jan-17	W1148870	Heterotrophic Bacteria (HPC)	<1	CFU/ML			
23-Jan-17	W1150161	Heterotrophic Bacteria (HPC)	<1	CFU/ML			
30-Jan-17	W1150948	Heterotrophic Bacteria (HPC)	<1	CFU/ML			
4-Jan-17	W1146914	Escherichia Coli	A	/100 ML			
5-Jan-17	W1146934	Escherichia Coli	A	/100 ML			
6-Jan-17	W1146611	Escherichia Coli	A	/100 ML			
9-Jan-17	W1147911	Escherichia Coli	A	/100 ML			
10-Jan-17	W1148321	Escherichia Coli	A	/100 ML			
11-Jan-17	W1148435	Escherichia Coli	A	/100 ML			
12-Jan-17	W1148499	Escherichia Coli	A	/100 ML			
13-Jan-17	W1148528	Escherichia Coli	A	/100 ML			
17-Jan-17	W1148831	Escherichia Coli	A	/100 ML			
18-Jan-17	W1149241	Escherichia Coli	A	/100 ML			
19-Jan-17	W1149859	Escherichia Coli	A	/100 ML			
20-Jan-17	W1149892	Escherichia Coli	A	/100 ML			

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SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
23-Jan-17	W1150160	Escherichia Coli	A	/100 ML			
24-Jan-17	W1150288	Escherichia Coli	A	/100 ML			
25-Jan-17	W1150384	Escherichia Coli	A	/100 ML			
26-Jan-17	W1150458	Escherichia Coli	A	/100 ML			
27-Jan-17	W1150488	Escherichia Coli	A	/100 ML			
30-Jan-17	W1150947	Escherichia Coli	A	/100 ML			
4-Jan-17	W1146914	Total Coliform	A	/100 ML			
5-Jan-17	W1146934	Total Coliform	A	/100 ML			
6-Jan-17	W1146611	Total Coliform	A	/100 ML			
9-Jan-17	W1147911	Total Coliform	A	/100 ML			
10-Jan-17	W1148321	Total Coliform	A	/100 ML			
11-Jan-17	W1148435	Total Coliform	A	/100 ML			
12-Jan-17	W1148499	Total Coliform	A	/100 ML			
13-Jan-17	W1148528	Total Coliform	A	/100 ML			
17-Jan-17	W1148831	Total Coliform	A	/100 ML			
18-Jan-17	W1149241	Total Coliform	A	/100 ML			
19-Jan-17	W1149859	Total Coliform	A	/100 ML			
20-Jan-17	W1149892	Total Coliform	A	/100 ML			
23-Jan-17	W1150160	Total Coliform	A	/100 ML			
24-Jan-17	W1150288	Total Coliform	A	/100 ML			
25-Jan-17	W1150384	Total Coliform	A	/100 ML			
26-Jan-17	W1150458	Total Coliform	A	/100 ML			
27-Jan-17	W1150488	Total Coliform	A	/100 ML			
30-Jan-17	W1150947	Total Coliform	A	/100 ML			
4-Jan-17	W1146914	Free Chlorine Residual	ND	MG/L			
5-Jan-17	W1146934	Free Chlorine Residual	0.2	MG/L			
6-Jan-17	W1146611	Free Chlorine Residual	ND	MG/L			
9-Jan-17	W1147913	Free Chlorine Residual	0.21	MG/L			
9-Jan-17	W1147912	Free Chlorine Residual	0.21	MG/L			
9-Jan-17	W1147911	Free Chlorine Residual	0.21	MG/L			
10-Jan-17	W1148324	Free Chlorine Residual	0.23	MG/L			
10-Jan-17	W1148323	Free Chlorine Residual	0.23	MG/L			
10-Jan-17	W1148322	Free Chlorine Residual	0.23	MG/L			
10-Jan-17	W1148321	Free Chlorine Residual	0.23	MG/L			
10-Jan-17	W1148320	Free Chlorine Residual	0.23	MG/L			
11-Jan-17	W1148435	Free Chlorine Residual	ND	MG/L			
12-Jan-17	W1148499	Free Chlorine Residual	ND	MG/L			
13-Jan-17	W1148528	Free Chlorine Residual	ND	MG/L			
17-Jan-17	W1148833	Free Chlorine Residual	ND	MG/L			

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SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
17-Jan-17	W1148832	Free Chlorine Residual	ND	MG/L			
17-Jan-17	W1148831	Free Chlorine Residual	ND	MG/L			
18-Jan-17	W1149241	Free Chlorine Residual	ND	MG/L			
19-Jan-17	W1149859	Free Chlorine Residual	ND	MG/L			
20-Jan-17	W1149892	Free Chlorine Residual	ND	MG/L			
23-Jan-17	W1150162	Free Chlorine Residual	0.24	MG/L			
23-Jan-17	W1150161	Free Chlorine Residual	0.24	MG/L			
23-Jan-17	W1150160	Free Chlorine Residual	0.24	MG/L			
24-Jan-17	W1150290	Free Chlorine Residual	ND	MG/L			
24-Jan-17	W1150289	Free Chlorine Residual	ND	MG/L			
24-Jan-17	W1150288	Free Chlorine Residual	ND	MG/L			
25-Jan-17	W1150384	Free Chlorine Residual	ND	MG/L			
26-Jan-17	W1150458	Free Chlorine Residual	ND	MG/L			
27-Jan-17	W1150488	Free Chlorine Residual	ND	MG/L			
30-Jan-17	W1150949	Free Chlorine Residual	ND	MG/L			
30-Jan-17	W1150948	Free Chlorine Residual	ND	MG/L			
30-Jan-17	W1150947	Free Chlorine Residual	ND	MG/L			
1-Feb-17	W1151606	Free Chlorine Residual	ND	MG/L			
3-Feb-17	W1152167	Free Chlorine Residual	ND	MG/L			
7-Feb-17	W1152736	Free Chlorine Residual	ND	MG/L			
10-Feb-17	W1151623	Free Chlorine Residual	ND	MG/L			
13-Feb-17	W1154099	Free Chlorine Residual	ND	MG/L			
4-Jan-17	W1146914	Total Chlorine Residual	3.3	MG/L			
5-Jan-17	W1146934	Total Chlorine Residual	3.9	MG/L			
6-Jan-17	W1146611	Total Chlorine Residual	3.67	MG/L			
9-Jan-17	W1147913	Total Chlorine Residual	4.1	MG/L			
9-Jan-17	W1147912	Total Chlorine Residual	4.1	MG/L			
9-Jan-17	W1147911	Total Chlorine Residual	4.1	MG/L			
10-Jan-17	W1148324	Total Chlorine Residual	4	MG/L			
10-Jan-17	W1148323	Total Chlorine Residual	4	MG/L			
10-Jan-17	W1148322	Total Chlorine Residual	4	MG/L			
10-Jan-17	W1148321	Total Chlorine Residual	4	MG/L			
10-Jan-17	W1148320	Total Chlorine Residual	4	MG/L			
11-Jan-17	W1148435	Total Chlorine Residual	3.9	MG/L			
12-Jan-17	W1148499	Total Chlorine Residual	4	MG/L			
13-Jan-17	W1148528	Total Chlorine Residual	3.7	MG/L			
17-Jan-17	W1148833	Total Chlorine Residual	3.7	MG/L			
17-Jan-17	W1148832	Total Chlorine Residual	3.7	MG/L			
17-Jan-17	W1148831	Total Chlorine Residual	3.7	MG/L			

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18-Jan-17	W1149241	Total Chlorine Residual	3.9	MG/L			
19-Jan-17	W1149859	Total Chlorine Residual	2.8	MG/L			
20-Jan-17	W1149892	Total Chlorine Residual	2.9	MG/L			
23-Jan-17	W1150162	Total Chlorine Residual	2.9	MG/L			
23-Jan-17	W1150161	Total Chlorine Residual	2.9	MG/L			
23-Jan-17	W1150160	Total Chlorine Residual	2.9	MG/L			
24-Jan-17	W1150290	Total Chlorine Residual	3	MG/L			
24-Jan-17	W1150289	Total Chlorine Residual	3	MG/L			
24-Jan-17	W1150288	Total Chlorine Residual	3	MG/L			
25-Jan-17	W1150384	Total Chlorine Residual	3	MG/L			
26-Jan-17	W1150458	Total Chlorine Residual	2.8	MG/L			
27-Jan-17	W1150488	Total Chlorine Residual	2.51	MG/L			
30-Jan-17	W1150949	Total Chlorine Residual	2.7	MG/L			
30-Jan-17	W1150948	Total Chlorine Residual	2.7	MG/L			
30-Jan-17	W1150947	Total Chlorine Residual	2.7	MG/L			
1-Feb-17	W1151606	Total Chlorine Residual	2.7	MG/L			
3-Feb-17	W1152167	Total Chlorine Residual	2.7	MG/L			
7-Feb-17	W1152736	Total Chlorine Residual	2.7	MG/L			
10-Feb-17	W1151623	Total Chlorine Residual	2.9	MG/L			
13-Feb-17	W1154099	Total Chlorine Residual	2.7	MG/L			
4-Jan-17	W1146914	pH	7.86	PH			
5-Jan-17	W1146934	pH	7.8	PH			
6-Jan-17	W1146611	pH	8.06	PH			
9-Jan-17	W1147913	pH	7.93	PH			
9-Jan-17	W1147912	pH	7.93	PH			
9-Jan-17	W1147911	pH	7.93	PH			
10-Jan-17	W1148324	pH	8.01	PH			
10-Jan-17	W1148323	pH	8.01	PH			
10-Jan-17	W1148322	pH	8.01	PH			
10-Jan-17	W1148321	pH	8.01	PH			
10-Jan-17	W1148320	pH	8.01	PH			
11-Jan-17	W1148435	pH	7.97	PH			
12-Jan-17	W1148499	pH	7.95	PH			
13-Jan-17	W1148528	pH	8.08	PH			
17-Jan-17	W1148833	pH	7.82	PH			
17-Jan-17	W1148832	pH	7.82	PH			
17-Jan-17	W1148831	pH	7.82	PH			
18-Jan-17	W1149241	pH	8.01	PH			
19-Jan-17	W1149859	pH	8	PH			

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City of San Diego Public Utilities Department
Environmental Monitoring and Technical Services
Water Quality Chemistry Services
ELAP Certificate #1058



City of San Diego Source ID: 95 SYS
 Sample Site: Otay Treatment Plant Effluent
 1500 Wueste Rd.

Environmental Monitoring and Technical Services
 2392 Kincaid Road MS 45A. San Diego, CA 92101
 Tel(619) 758-2300 Fax (619) 758-2309

SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
20-Jan-17	W1149892	pH	8.1	PH			
23-Jan-17	W1150162	pH	8.09	PH			
23-Jan-17	W1150161	pH	8.09	PH			
23-Jan-17	W1150160	pH	8.09	PH			
24-Jan-17	W1150290	pH	8.12	PH			
24-Jan-17	W1150289	pH	8.12	PH			
24-Jan-17	W1150288	pH	8.12	PH			
25-Jan-17	W1150384	pH	8.14	PH			
26-Jan-17	W1150458	pH	7.97	PH			
27-Jan-17	W1150488	pH	8.1	PH			
30-Jan-17	W1150949	pH	7.87	PH			
30-Jan-17	W1150948	pH	7.87	PH			
30-Jan-17	W1150947	pH	7.87	PH			
1-Feb-17	W1151606	pH	8.11	PH			
3-Feb-17	W1152167	pH	7.99	PH			
7-Feb-17	W1152736	pH	8.2	PH			
10-Feb-17	W1151623	pH	8.01	PH			
13-Feb-17	W1154099	pH	8.08	PH			
4-Jan-17	W1146914	Temperature degrees C	15.4	DEGREE_C			
5-Jan-17	W1146934	Temperature degrees C	15	DEGREE_C			
6-Jan-17	W1146611	Temperature degrees C	14.8	DEGREE_C			
9-Jan-17	W1147913	Temperature degrees C	15.6	DEGREE_C			
9-Jan-17	W1147912	Temperature degrees C	15.6	DEGREE_C			
9-Jan-17	W1147911	Temperature degrees C	15.6	DEGREE_C			
10-Jan-17	W1148324	Temperature degrees C	15.7	DEGREE_C			
10-Jan-17	W1148323	Temperature degrees C	15.7	DEGREE_C			
10-Jan-17	W1148322	Temperature degrees C	15.7	DEGREE_C			
10-Jan-17	W1148321	Temperature degrees C	15.7	DEGREE_C			
10-Jan-17	W1148320	Temperature degrees C	15.7	DEGREE_C			
11-Jan-17	W1148435	Temperature degrees C	15.3	DEGREE_C			
12-Jan-17	W1148499	Temperature degrees C	15.4	DEGREE_C			
13-Jan-17	W1148528	Temperature degrees C	16.3	DEGREE_C			
17-Jan-17	W1148833	Temperature degrees C	15.9	DEGREE_C			
17-Jan-17	W1148832	Temperature degrees C	15.9	DEGREE_C			
17-Jan-17	W1148831	Temperature degrees C	15.9	DEGREE_C			
18-Jan-17	W1149241	Temperature degrees C	15.4	DEGREE_C			
19-Jan-17	W1149859	Temperature degrees C	15.3	DEGREE_C			
20-Jan-17	W1149892	Temperature degrees C	14.8	DEGREE_C			
23-Jan-17	W1150162	Temperature degrees C	13.9	DEGREE_C			

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**City of San Diego Public Utilities Department
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City of San Diego Source ID: 95 SYS
 Sample Site: Otay Treatment Plant Effluent
 1500 Wueste Rd.

Environmental Monitoring and Technical Services
 2392 Kincaid Road MS 45A. San Diego, CA 92101
 Tel(619) 758-2300 Fax (619) 758-2309

SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
23-Jan-17	W1150161	Temperature degrees C	13.9	DEGREE_C			
23-Jan-17	W1150160	Temperature degrees C	13.9	DEGREE_C			
24-Jan-17	W1150290	Temperature degrees C	14.4	DEGREE_C			
24-Jan-17	W1150289	Temperature degrees C	14.4	DEGREE_C			
24-Jan-17	W1150288	Temperature degrees C	14.4	DEGREE_C			
25-Jan-17	W1150384	Temperature degrees C	14.6	DEGREE_C			
26-Jan-17	W1150458	Temperature degrees C	14.6	DEGREE_C			
27-Jan-17	W1150488	Temperature degrees C	13.1	DEGREE_C			
30-Jan-17	W1150949	Temperature degrees C	15	DEGREE_C			
30-Jan-17	W1150948	Temperature degrees C	15	DEGREE_C			
30-Jan-17	W1150947	Temperature degrees C	15	DEGREE_C			
1-Feb-17	W1151606	Temperature degrees C	13.6	DEGREE_C			
3-Feb-17	W1152167	Temperature degrees C	14.1	DEGREE_C			
7-Feb-17	W1152736	Temperature degrees C	14.1	DEGREE_C			
10-Feb-17	W1151623	Temperature degrees C	14	DEGREE_C			
13-Feb-17	W1154099	Temperature degrees C	14.1	DEGREE_C			

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City of San Diego Public Utilities Department
Environmental Monitoring and Technical Services
Water Quality Chemistry Services
ELAP Certificate #1058



City of San Diego Source ID: 201 SYS
Sample Site: 1880 Smythe Ave. Sample Stanchion

Environmental Monitoring and Technical Services
2392 Kincaid Road MS 45A. San Diego, CA 92101
Tel(619) 758-2300 Fax (619) 758-2309

SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
10-Jan-17	W1148346	Ammonia-N	0.768	MG/L	0.031		
17-Jan-17	W1149148	Ammonia-N	0.737	MG/L	0.031		
24-Jan-17	W1150316	Ammonia-N	0.633	MG/L	0.031		
17-Jan-17	W1149148	Calcium Hardness (CaCO3)	130	MG/L	10		
17-Jan-17	W1149149	Color, Apparent (Unfiltered)	2	COLOR	1		
24-Jan-17	W1150317	Color, Apparent (Unfiltered)	ND	COLOR	1		
10-Jan-17	W1148346	Nitrate & Nitrite	0.397	MG/L	0.078		
17-Jan-17	W1149148	Nitrate & Nitrite	0.438	MG/L	0.078		
24-Jan-17	W1150316	Nitrate & Nitrite	1.05	MG/L	0.078		
10-Jan-17	W1148346	Nitrate (as NO3)	0.38	MG/L			
17-Jan-17	W1149148	Nitrate (as NO3)	0.43	MG/L			
24-Jan-17	W1150316	Nitrate (as NO3)	1.05	MG/L			
10-Jan-17	W1148346	Nitrite (NO2)	0.0164	MG/L	0.0156	1.31	3.42
17-Jan-17	W1149148	Nitrite (NO2)	ND	MG/L	0.0156	1.31	3.42
24-Jan-17	W1150316	Nitrite (NO2)	ND	MG/L	0.0156	1.31	3.42
8-Feb-17	W1154335	Copper	6.43	UG/L	1	50	1300*
8-Feb-17	W1154335	Lead	ND	UG/L	0.5	5	15*
10-Jan-17	W1148349	Odor Threshold @ 60 C	1	ODOR	1	1	
17-Jan-17	W1149149	Odor Threshold @ 60 C	1	ODOR	1	1	
17-Jan-17	W1149148	Total Hardness (CaCO3)	273	MG/L	10		
10-Jan-17	W1148349	Turbidity, Laboratory	0.07	NTU	0.07		
17-Jan-17	W1149149	Turbidity, Laboratory	0.09	NTU	0.07		
24-Jan-17	W1150317	Turbidity, Laboratory	0.07	NTU	0.07		
31-Jan-17	W1151130	Turbidity, Laboratory	ND	NTU	0.07		
10-Jan-17	W1148347	Bromodichloromethane	14.8	UG/L	1	1	
24-Jan-17	W1150299	Bromodichloromethane	5.16	UG/L	1	1	
10-Jan-17	W1148347	Bromoform	16.4	UG/L	1	1	
24-Jan-17	W1150299	Bromoform	2.68	UG/L	1	1	
10-Jan-17	W1148347	Chlorodibromomethane	26	UG/L	1	1	
24-Jan-17	W1150299	Chlorodibromomethane	6.35	UG/L	1	1	
10-Jan-17	W1148347	Chloroform (Trichloromethane)	5.03	UG/L	1	1	
24-Jan-17	W1150299	Chloroform (Trichloromethane)	2.96	UG/L	1	1	
10-Jan-17	W1148347	Total Trihalomethanes (TTHMs)	62.2	UG/L	1	1	80
24-Jan-17	W1150299	Total Trihalomethanes (TTHMs)	17.2	UG/L	1	1	80
10-Jan-17	W1148348	Trichloroacetic Acid (TCAA)	1.25	UG/L	1	1	
10-Jan-17	W1148348	Dibromoacetic Acid (DBAA)	7.62	UG/L	1	1	
10-Jan-17	W1148348	Dichloroacetic Acid (DCAA)	4.07	UG/L	1	1	
10-Jan-17	W1148348	Haloacetic Acids (five) (HAA5)	12.9	UG/L	1	1	60
10-Jan-17	W1148345	Heterotrophic Bacteria (HPC)	<1	CFU/ML			

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City of San Diego Public Utilities Department
Environmental Monitoring and Technical Services
Water Quality Chemistry Services
ELAP Certificate #1058



City of San Diego Source ID: 201 SYS
Sample Site: 1880 Smythe Ave. Sample Stanchion

Environmental Monitoring and Technical Services
2392 Kincaid Road MS 45A. San Diego, CA 92101
Tel(619) 758-2300 Fax (619) 758-2309

SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
10-Jan-17	W1148348	Monobromoacetic Acid (MBAA)	ND	UG/L	1	1	
10-Jan-17	W1148348	Monochloroacetic Acid (MCAA)	ND	UG/L	2	2	
10-Jan-17	W1148348	Dalapon	ND	UG/L	2	10	200
6-Jan-17	W1146458	Escherichia Coli	A	/100 ML			
10-Jan-17	W1148344	Escherichia Coli	A	/100 ML			
17-Jan-17	W1149147	Escherichia Coli	A	/100 ML			
24-Jan-17	W1150315	Escherichia Coli	A	/100 ML			
31-Jan-17	W1151128	Escherichia Coli	A	/100 ML			
6-Jan-17	W1146458	Total Coliform	A	/100 ML			
10-Jan-17	W1148344	Total Coliform	A	/100 ML			
17-Jan-17	W1149147	Total Coliform	A	/100 ML			
24-Jan-17	W1150315	Total Coliform	A	/100 ML			
31-Jan-17	W1151128	Total Coliform	A	/100 ML			
6-Jan-17	W1146458	Free Chlorine Residual	0.22	MG/L			
10-Jan-17	W1148349	Free Chlorine Residual	ND	MG/L			
10-Jan-17	W1148348	Free Chlorine Residual	ND	MG/L			
10-Jan-17	W1148347	Free Chlorine Residual	ND	MG/L			
10-Jan-17	W1148346	Free Chlorine Residual	ND	MG/L			
10-Jan-17	W1148345	Free Chlorine Residual	ND	MG/L			
10-Jan-17	W1148344	Free Chlorine Residual	ND	MG/L			
17-Jan-17	W1149149	Free Chlorine Residual	ND	MG/L			
17-Jan-17	W1149148	Free Chlorine Residual	ND	MG/L			
17-Jan-17	W1149147	Free Chlorine Residual	ND	MG/L			
24-Jan-17	W1150317	Free Chlorine Residual	ND	MG/L			
24-Jan-17	W1150316	Free Chlorine Residual	ND	MG/L			
24-Jan-17	W1150315	Free Chlorine Residual	ND	MG/L			
31-Jan-17	W1151130	Free Chlorine Residual	ND	MG/L			
31-Jan-17	W1151129	Free Chlorine Residual	ND	MG/L			
31-Jan-17	W1151128	Free Chlorine Residual	ND	MG/L			
7-Feb-17	W1152753	Free Chlorine Residual	ND	MG/L			
8-Feb-17	W1154337	Free Chlorine Residual	ND	MG/L			
6-Jan-17	W1146458	Total Chlorine Residual	3.5	MG/L			
10-Jan-17	W1148349	Total Chlorine Residual	3.3	MG/L			
10-Jan-17	W1148348	Total Chlorine Residual	3.3	MG/L			
10-Jan-17	W1148347	Total Chlorine Residual	3.3	MG/L			
10-Jan-17	W1148346	Total Chlorine Residual	3.3	MG/L			
10-Jan-17	W1148345	Total Chlorine Residual	3.3	MG/L			
10-Jan-17	W1148344	Total Chlorine Residual	3.3	MG/L			
17-Jan-17	W1149149	Total Chlorine Residual	3.1	MG/L			

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City of San Diego Source ID: 201 SYS
Sample Site: 1880 Smythe Ave. Sample Stanchion

Environmental Monitoring and Technical Services
2392 Kincaid Road MS 45A. San Diego, CA 92101
Tel(619) 758-2300 Fax (619) 758-2309

SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
17-Jan-17	W1149148	Total Chlorine Residual	3.1	MG/L			
17-Jan-17	W1149147	Total Chlorine Residual	3.1	MG/L			
24-Jan-17	W1150317	Total Chlorine Residual	2.2	MG/L			
24-Jan-17	W1150316	Total Chlorine Residual	2.2	MG/L			
24-Jan-17	W1150315	Total Chlorine Residual	2.2	MG/L			
31-Jan-17	W1151130	Total Chlorine Residual	2.4	MG/L			
31-Jan-17	W1151129	Total Chlorine Residual	2.4	MG/L			
31-Jan-17	W1151128	Total Chlorine Residual	2.4	MG/L			
7-Feb-17	W1152753	Total Chlorine Residual	2.5	MG/L			
8-Feb-17	W1154337	Total Chlorine Residual	2.36	MG/L			
6-Jan-17	W1146458	pH	7.98	PH			
10-Jan-17	W1148349	pH	8.18	PH			
10-Jan-17	W1148348	pH	8.18	PH			
10-Jan-17	W1148347	pH	8.18	PH			
10-Jan-17	W1148346	pH	8.18	PH			
10-Jan-17	W1148345	pH	8.18	PH			
10-Jan-17	W1148344	pH	8.18	PH			
17-Jan-17	W1149149	pH	8.06	PH			
17-Jan-17	W1149148	pH	8.06	PH			
17-Jan-17	W1149147	pH	8.06	PH			
24-Jan-17	W1150317	pH	8.31	PH			
24-Jan-17	W1150316	pH	8.31	PH			
24-Jan-17	W1150315	pH	8.31	PH			
31-Jan-17	W1151130	pH	8.18	PH			
31-Jan-17	W1151129	pH	8.18	PH			
31-Jan-17	W1151128	pH	8.18	PH			
7-Feb-17	W1152753	pH	8.2	PH			
8-Feb-17	W1154337	pH	8.12	PH			
6-Jan-17	W1146458	Temperature degrees C	17.4	DEGREE_C			
10-Jan-17	W1148349	Temperature degrees C	17.1	DEGREE_C			
10-Jan-17	W1148348	Temperature degrees C	17.1	DEGREE_C			
10-Jan-17	W1148347	Temperature degrees C	17.1	DEGREE_C			
10-Jan-17	W1148346	Temperature degrees C	17.1	DEGREE_C			
10-Jan-17	W1148345	Temperature degrees C	17.1	DEGREE_C			
10-Jan-17	W1148344	Temperature degrees C	17.1	DEGREE_C			
17-Jan-17	W1149149	Temperature degrees C	16.5	DEGREE_C			
17-Jan-17	W1149148	Temperature degrees C	16.5	DEGREE_C			
17-Jan-17	W1149147	Temperature degrees C	16.5	DEGREE_C			
24-Jan-17	W1150317	Temperature degrees C	15.8	DEGREE_C			

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SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
24-Jan-17	W1150316	Temperature degrees C	15.8	DEGREE_C			
24-Jan-17	W1150315	Temperature degrees C	15.8	DEGREE_C			
31-Jan-17	W1151130	Temperature degrees C	15.8	DEGREE_C			
31-Jan-17	W1151129	Temperature degrees C	15.8	DEGREE_C			
31-Jan-17	W1151128	Temperature degrees C	15.8	DEGREE_C			
7-Feb-17	W1152753	Temperature degrees C	15.7	DEGREE_C			
8-Feb-17	W1154337	Temperature degrees C	16.5	DEGREE_C			

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City of San Diego Public Utilities Department
Environmental Monitoring and Technical Services
Water Quality Chemistry Services
ELAP Certificate #1058



City of San Diego Source ID: 200 SYS
 Sample Site: Otay Mesa Rd./Beyer Blvd.

Environmental Monitoring and Technical Services
 2392 Kincaid Road MS 45A. San Diego, CA 92101
 Tel(619) 758-2300 Fax (619) 758-2309

SAMPLE DATE	SAMPLE ID	ANALYTE_NAME	VALUE	UNITS	MDL	DLR	MCL
5-Jan-17	W1146569	Escherichia Coli	A	/100 ML			
12-Jan-17	W1148516	Escherichia Coli	A	/100 ML			
19-Jan-17	W1149876	Escherichia Coli	A	/100 ML			
26-Jan-17	W1150475	Escherichia Coli	A	/100 ML			
5-Jan-17	W1146569	Total Coliform	A	/100 ML			
12-Jan-17	W1148516	Total Coliform	A	/100 ML			
19-Jan-17	W1149876	Total Coliform	A	/100 ML			
26-Jan-17	W1150475	Total Coliform	A	/100 ML			
5-Jan-17	W1146569	Free Chlorine Residual	ND	MG/L			
12-Jan-17	W1148516	Free Chlorine Residual	ND	MG/L			
19-Jan-17	W1149876	Free Chlorine Residual	ND	MG/L			
26-Jan-17	W1150475	Free Chlorine Residual	ND	MG/L			
2-Feb-17	W1151557	Free Chlorine Residual	ND	MG/L			
8-Feb-17	W1154336	Free Chlorine Residual	ND	MG/L			
9-Feb-17	W1153127	Free Chlorine Residual	ND	MG/L			
5-Jan-17	W1146569	Total Chlorine Residual	3.5	MG/L			
12-Jan-17	W1148516	Total Chlorine Residual	3.1	MG/L			
19-Jan-17	W1149876	Total Chlorine Residual	2.3	MG/L			
26-Jan-17	W1150475	Total Chlorine Residual	2.3	MG/L			
2-Feb-17	W1151557	Total Chlorine Residual	2.2	MG/L			
8-Feb-17	W1154336	Total Chlorine Residual	2.32	MG/L			
9-Feb-17	W1153127	Total Chlorine Residual	2.4	MG/L			
5-Jan-17	W1146569	pH	8.11	PH			
12-Jan-17	W1148516	pH	8.19	PH			
19-Jan-17	W1149876	pH	8.11	PH			
26-Jan-17	W1150475	pH	8.31	PH			
2-Feb-17	W1151557	pH	8.16	PH			
8-Feb-17	W1154336	pH	8.08	PH			
9-Feb-17	W1153127	pH	8.25	PH			
8-Feb-17	W1154334	Copper	9.85	UG/L	1	50	1300*
8-Feb-17	W1154334	Lead	ND	UG/L	0.5	5	15*
5-Jan-17	W1146569	Temperature degrees C	17.3	DEGREE_C			
12-Jan-17	W1148516	Temperature degrees C	17	DEGREE_C			
19-Jan-17	W1149876	Temperature degrees C	16.7	DEGREE_C			
26-Jan-17	W1150475	Temperature degrees C	16	DEGREE_C			
2-Feb-17	W1151557	Temperature degrees C	16	DEGREE_C			
8-Feb-17	W1154336	Temperature degrees C	17.1	DEGREE_C			
9-Feb-17	W1153127	Temperature degrees C	16.7	DEGREE_C			

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