

SFPUC's List of Raw Water Monitoring Analytes in 2023

Item No.	Raw Water Analytes
1	1,1,1-Trichloroethane
2	1,1,2,2-Tetrachloroethane
3	1,1,2-Trichloro-1,2,2-Trifluoroethane
4	1,1,2-Trichloroethane
5	1,1-Dichloroethane
6	1,1-Dichloroethylene
7	1,2,4-Trichlorobenzene
8	1,2-Dichlorobenzene
9	1,2-Dichloroethane
10	1,2-Dichloropropane
11	1,3-Dichloropropene Total
12	1,4-Dichlorobenzene
13	2,4,6-Trichloroanisole
14	Acanthoceras
15	Actinastrum
16	Actinocoma
17	Algal Biomass
18	algal toxins
19	Alkalinity
20	Alkalinity, CO <sub>3</sub> <sup>2-</sup>
21	Alkalinity, HCO <sub>3</sub> <sup>-</sup>
22	Alkalinity, OH <sup>-</sup>
23	Alkalinity, phenolphthalein
24	Aluminum
25	Ammonia as N, Total
26	Amphipleura
27	Anabaena
28	Anacystis
29	Anatoxin-α
30	Ankistrodesmus
31	Antimony
32	Aphanizomenon
33	Aphanocapsa
34	Aphanothece
35	Arsenic
36	Arthrodesmus
37	Asbestos
38	Asterionella
39	Attheya
40	Aulacoseria
41	Bacillaria
42	Barium
43	Benzene
44	Beryllium
45	Boron
46	Botryococcus
47	Bromide
48	Bromodichloromethane
49	Bromoform
50	Cadmium
51	Calcium
52	Carbon Tetrachloride
53	Ceratium
54	Chlamydomonas
55	Chlorate, ClO <sub>3</sub> <sup>-</sup>
56	Chlorella
57	Chloride
58	Chlorite, ClO <sub>2</sub> <sup>-</sup>
59	Chlorobenzene
60	Chlorococcum
61	Chloroform

Item No.	Raw Water Analytes
80	Cosmarium
81	Cosmocladium
82	Crustacea larvae
83	Crustaceans
84	Cryptomonas
85	<i>Cryptosporidium 1</i> - empty
86	<i>Cryptosporidium 2</i> - amorphous
87	<i>Cryptosporidium 3</i> - with internal structure
88	<i>Cryptosporidium 4</i> - total
89	Cyanide
90	Cyclotella
91	Cylindrospermopsin
92	Cymbella
93	Daphnia
94	Decapod
95	Desmidiium
96	Diatoma
97	Dibromochloromethane
98	Dictyosphaerium
99	Dinobryon
100	Dissolved Organic Carbon
101	Dissolved oxygen
102	Dolichospermum
103	Elakatothrix
104	Epithemia
105	<i>Escherichia coli</i>
106	Ethylbenzene
107	Eudorina
108	Euglena
109	Fecal Coliform
110	Filamentous blue-green algae
111	Filamentous green algae
112	Fluoride
113	Fragilaria
114	Geosmin
115	<i>Giardia 1</i> - empty
116	<i>Giardia 2</i> - amorphous
117	<i>Giardia 3</i> - with 1 internal structure
118	<i>Giardia 4</i> - with >1 internal structure
119	<i>Giardia 5</i> - total
120	Glenodinium
121	Gleocapsa
122	Gleothece
123	Gloeocystis
124	Gloeotrichia
125	Gomphosphaeria
126	Gross Alpha particles
127	Gymnodinium
128	Gyrosigma
129	Hardness, Calcium, as CaCO <sub>3</sub>
130	Hardness, Total, as CaCO <sub>3</sub>
131	Heimansia
132	Heliozoan
133	Hyalotheca
134	Hydra
135	Iron
136	Kirchneriella
137	Lead
138	Leptolyngbya
139	Lyngbya
140	m,p-Xylene

Item No.	Raw Water Analytes
159	Naviculoid Diatom
160	Nematode
161	Nickel
162	Nitrate as N
163	Nitrite as N
164	Nitzschia
165	Odor
166	Oedogonium
167	Oocystis
168	Oscillatoria / Planktothrix
169	Ostracoda
170	o-Xylene
171	Pandorina
172	Paramecium
173	Pediastrum
174	Pennate Diatom
175	Perchlorate, ClO <sub>4</sub> <sup>-</sup>
176	Peridinium
177	pH
178	Phosphate, Ortho
179	Pinnularia
180	Plankton Count
181	Pleurosira
182	Potassium
183	Protozoan
184	Rotifera
185	Saxitoxin
186	Scenedesmus
187	Secchi
188	Selenium
189	Silica
190	Silver
191	Snowella
192	Sodium
193	Specific Conductance
194	Sphaerocystis
195	Spinocosmarium
196	Spirogyra
197	Spirulina
198	Spondylosium
199	Staurastrum
200	Stenopterobia
201	Stephanodiscus
202	Stigleodinium
203	Strontium
204	Styrene
205	Sulfate
206	Surirella
207	Synedra
208	Tabellaria
209	Temperature
210	Tetrachloroethylene
211	Thallium
212	Toluene
213	Total Coliform
214	Total Dissolved Solids
215	Total Microcystins
216	Total Organic Carbon
217	Total Trihalomethanes
218	trans-1,2-Dichloroethylene
219	trans-1,3-Dichloropropene

**SFPUC's List of Raw Water Monitoring Analytes in 2023**

Item No.	Raw Water Analytes
62	Chlorophyll $\alpha$
63	Chromium, Hexavalent
64	Chromium, Total
65	Chryso-sphaerella
66	cis-1,2-dichloroethylene
67	cis-1,3-dichloropropene
68	Cladocera
69	Cladophora
70	Closteridium
71	Closterium
72	Cocoid blue-green algae
73	Cocoid green algae
74	Cocconeis
75	Coelastrum
76	Coelosphaerium
77	Color
78	Copepoda
79	Copper

Item No.	Raw Water Analytes
141	Magnesium
142	Mallomonas
143	Manganese
144	Mercury
145	Meridion
146	Merismopedia
147	Methyl t-butyl ether
148	Methylene Blue Active Substance (Foaming Agent)
149	Methylene Chloride
150	Methylisoborneol
151	Micractinium
152	Micrasterias
153	Microcystis
154	Microspora
155	Mougeotia
156	Nanoplankton
157	Nauplius
158	Navicula

Item No.	Raw Water Analytes
220	Treubaria
221	Tribonema
222	Trichloroethylene
223	Trichlorofluoromethane
224	Turbidity
225	Ulothrix
226	Uranium
227	UV254
228	Vanadium
229	Veliger
230	Vinyl chloride
231	Volvox
232	Woronichinia
233	Xanthidium
234	Xylenes
235	Zinc
236	zooplankton Eggs
237	Zygnema

## SFPUC's List of Treated Water Monitoring Analytes in 2023

Item No.	Treated Water Analytes
1	1,1,1-Trichloroethane
2	1,1,2,2-Tetrachloroethane
3	1,1,2-Trichloro-1,2,2-Trifluoroethane
4	1,1,2-Trichloroethane
5	1,1-Dichloroethane
6	1,1-Dichloroethylene
7	1,2,4-Trichlorobenzene
8	1,2-Dichlorobenzene
9	1,2-Dichloroethane
10	1,2-Dichloropropane
11	1,3-Dichloropropene Total (cis+ trans)
12	1,4-Dichlorobenzene
13	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
14	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)
15	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)
16	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)
17	2,4,6-Trichloroanisole
18	4,8-Dioxa-3H-perfluorononanoic acid
19	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
20	Alkalinity
21	Alkalinity, CO <sub>3</sub> <sup>2-</sup>
22	Alkalinity, HCO <sub>3</sub> <sup>-</sup>
23	Alkalinity, OH <sup>-</sup>
24	Alkalinity, Phenolphthalein
25	Aluminum
26	Ammonia as N, Free
27	Ammonia as N, Total
28	Anatoxin- $\alpha$
29	Antimony
30	Arsenic
31	Barium
32	Benzene
33	Beryllium
34	Boron
35	Bromate, BrO <sub>3</sub> <sup>-</sup>
36	Bromide
37	Bromodichloromethane
38	Bromoform

Item No.	Treated Water Analytes
76	Hexafluoropropylene oxide dimer acid (HFPO-DA)
77	Iron
78	Lead
79	Lithium
80	m,p-Xylene
81	Magnesium
82	Manganese
83	Mercury
84	Methylene Blue Active Substance (Foaming Agent)
85	Methylene Chloride
86	Methylisoborneol
87	Methyl-tert-butyl Ether
88	Monobromoacetic Acid
89	Monochloroacetic Acid
90	N-ethyl perfluorooctanesulfonamidoacetic acid
91	Nickel
92	Nitrate as N
93	Nitrite as N
94	N-methyl perfluorooctanesulfonamidoacetic acid
95	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
96	Odor
97	o-Xylene
98	Perchlorate, ClO <sub>4</sub> <sup>-</sup>
99	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)
100	Perfluoro-3-methoxypropanoic acid (PFMPA)
101	Perfluoro-4-methoxybutanoic acid (PFMBA)
102	Perfluorobutanesulfonic acid (PFBS)
103	Perfluorobutanoic acid (PFBA)
104	Perfluorodecanoic acid (PFDA)
105	Perfluorododecanoic acid (PFDoA)
106	Perfluoroheptanesulfonic acid (PFHpS)
107	Perfluoroheptanoic acid (PFHpA)
108	Perfluorohexanesulfonic acid (PFHxS)
109	Perfluorohexanoic acid (PFHxA)
110	Perfluorononanoic acid (PFNA)
111	Perfluorooctanesulfonic acid (PFOS)
112	Perfluorooctanoic acid (PFOA)
113	Perfluoropentanesulfonic acid (PFPeS)

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Item No.	Treated Water Analytes
39	Cadmium
40	Calcium
41	Carbon Tetrachloride
42	Chlorate, ClO <sub>3</sub> <sup>-</sup>
43	Chloride
44	Chlorine Residual, Free
45	Chlorine Residual, Total
46	Chlorite, ClO <sub>2</sub> <sup>-</sup>
47	Chlorobenzene
48	Chloroform
49	Chromium, Hexavalent
50	Chromium, Total
51	cis-1,2-Dichloroethylene
52	cis-1,3-Dichloropropene
53	Color
54	Copper
55	<i>Cryptosporidium</i> - Amorphous
56	<i>Cryptosporidium</i> - Empty
57	<i>Cryptosporidium</i> - Total
58	<i>Cryptosporidium</i> - With Internal Structure
59	Cylindrospermopsin
60	Dibromoacetic Acid
61	Dibromochloromethane
62	Dichloroacetic Acid
63	Dissolved Organic Carbon
64	<i>Escherichia coli</i>
65	Ethylbenzene
66	Five Haloacetic Acids (HAA Total)
67	Fluoride
68	Geosmin
69	<i>Giardia</i> - Amorphous
70	<i>Giardia</i> - Empty
71	<i>Giardia</i> - Total
72	<i>Giardia</i> - With >1 Internal Structure
73	<i>Giardia</i> - With 1 Internal Structure
74	Hardness, Calcium, as CaCO <sub>3</sub>
75	Hardness, Total, as CaCO <sub>3</sub>

Item No.	Treated Water Analytes
114	Perfluoropentanoic acid (PFPeA)
115	Perfluorotetradecanoic acid (PFTA)
116	Perfluorotridecanoic acid (PFTrDA)
117	Perfluoroundecanoic acid (PFUnA)
118	pH
119	Phosphate, Ortho
120	Potassium
121	Saxitoxin
122	Selenium
123	Silica
124	Silver
125	Sodium
126	Specific Conductance
127	Strontium
128	Styrene
129	Sulfate
130	Temperature
131	Tetrachloroethylene
132	Thallium
133	Thiobencarb
134	Toluene
135	Total Coliform
136	Total Dissolved Solids
137	Total Microcystins
138	Total Organic Carbon
139	Total Trihalomethanes (THM Total)
140	trans-1,2-Dichloroethylene
141	trans-1,3-Dichloropropene
142	Trichloroacetic Acid
143	Trichloroethylene
144	Trichlorofluoromethane
145	Turbidity
146	UV254
147	Vinyl Chloride
148	Xylenes
149	Zinc

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No.	PARAMETERS <sup>(1)</sup>	Unit	Alameda East		SVWTP Effluent		HTWTP Effluent		CS2 Baden <sup>(2)</sup>		Sunset Reservoir Outlets <sup>(3)</sup>		Distribution System <sup>(4)</sup>		Transmission System <sup>(5)</sup>	
			Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
<b>Volatile Organic Chemicals (VOCs)</b>																
1	1,1,1-Trichloroethane	ppb	ND	ND	ND	ND	ND	ND								
2	1,1,2,2-Tetrachloroethane	ppb	ND	ND	ND	ND	ND	ND								
3	1,1,2-Trichloro-1,2,2-Trifluoroethane	ppb	ND	ND	ND	ND	ND	ND								
4	1,1,2-Trichloroethane	ppb	ND	ND	ND	ND	ND	ND								
5	1,1-Dichloroethane	ppb	ND	ND	ND	ND	ND	ND								
6	1,1-Dichloroethylene	ppb	ND	ND	ND	ND	ND	ND								
7	1,2,4-Trichlorobenzene	ppb	ND	ND	ND	ND	ND	ND								
8	1,2-Dichlorobenzene	ppb	ND	ND	ND	ND	ND	ND								
9	1,2-Dichloroethane	ppb	ND	ND	ND	ND	ND	ND								
10	1,2-Dichloropropane	ppb	ND	ND	ND	ND	ND	ND								
11	1,3-Dichloropropene	ppb	ND	ND	ND	ND	ND	ND								
12	1,4-Dichlorobenzene	ppb	ND	ND	ND	ND	ND	ND								
13	Benzene	ppb	ND	ND	ND	ND	ND	ND								
14	Carbon Tetrachloride	ppb	ND	ND	ND	ND	ND	ND			ND	ND				
15	Monochlorobenzene	ppb	ND	ND	ND	ND	ND	ND								
16	cis-1,2-Dichloroethylene	ppb	ND	ND	ND	ND	ND	ND								
17	Ethylbenzene	ppb	ND	ND	ND	ND	ND	ND								
18	Methyl Tert-Butyl Ether	ppb	ND	ND	ND	ND	ND	ND			ND	ND				
19	Methylene Chloride	ppb	ND	ND	ND	ND	ND	ND								
20	Styrene	ppb	ND	ND	ND	ND	ND	ND								
21	Tetrachloroethylene	ppb	ND	ND	ND	ND	ND	ND			ND	ND				
22	Toluene	ppb	ND	ND	ND	ND	ND	ND								
23	trans-1,2-Dichloroethylene	ppb	ND	ND	ND	ND	ND	ND								
24	Trichloroethylene	ppb	ND	ND	ND	ND	ND	ND								
25	Trichlorofluoromethane	ppb	ND	ND	ND	ND	ND	ND								
26	Vinyl Chloride	ppb	ND	ND	ND	ND	ND	ND								
27	Xylenes	ppb	ND	ND	ND	ND	ND	ND								
<b>Inorganic Chemicals</b>																
28	Antimony	ppb	ND	ND	ND	ND	ND	ND								
29	Arsenic	ppb	ND	ND	ND	ND	ND	ND								
30	Barium	ppb	ND	ND	ND	ND	ND	ND								
31	Beryllium	ppb	ND	ND	ND	ND	ND	ND								
32	Cadmium	ppb	ND	ND	ND	ND	ND	ND								
33	Chromium, Hexavalent	ppb	0.11	0.11	0.35	0.35	0.22	0.22			0.02 - 0.57	0.1				
34	Chromium, Total	ppb	ND	ND	ND	ND	ND	ND								
35	Fluoride	ppm	0.7	0.7	0.3 - 0.7	0.6	0.4 - 0.7	0.6			0.6 - 0.7	0.6	0.4 - 0.8	0.6	0.4 - 2.6	0.6
36	Lead	ppb	ND	ND	ND	ND	ND	ND								
37	Mercury	ppb	ND	ND	ND	ND	ND	ND								
38	Nickel	ppb	ND	ND	ND	ND	ND	ND								
39	Nitrate as N	ppm	ND	ND	0.6	0.6	ND	ND			ND - 0.5	ND	ND - 0.5	ND	ND - 0.6	ND
40	Nitrite as N	ppm	ND	ND	ND	ND	ND	ND	ND	ND			ND - 0.5	ND	ND	ND
41	Perchlorate	ppb	ND	ND	ND	ND	ND	ND			ND	ND				
42	Selenium	ppb	ND	ND	ND	ND	ND	ND								
43	Strontium	ppb	14	14	331	331	72	72								
44	Thallium	ppb	ND	ND	ND	ND	ND	ND								
<b>Secondary Maximum Contaminant Levels</b>																
45	Aluminum	ppb	82	82	ND	ND	ND	ND	85	85	60	60				
46	Chloride	ppm	<3 - 5.2	<3	5.5 - 12	9.4	14 - 17	16	3.2 - 16	7.5	4.1 - 16	7.9				
47	Color	Units	5	5	<5	<5	<5	<5	5	5	<5	<5				

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No.	PARAMETERS <sup>(1)</sup>	Unit	Alameda East		SVWTP Effluent		HTWTP Effluent		CS2 Baden <sup>(2)</sup>		Sunset Reservoir Outlets <sup>(3)</sup>		Distribution System <sup>(4)</sup>		Transmission System <sup>(5)</sup>	
			Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
48	Copper	ppb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
49	Foaming Agent (MBAS)	ppm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
50	Iron	ppb	42	42	<6	<6	<6 - 17	11	41	41	9.1 - 53	29				
51	Manganese	ppb	3.1	3.1	<2 - 4.8	<2	<2 - 12	2.3	3.1	3.1	<2 - 8.2	2.3				
52	Odor-Threshold	Units	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1				
53	Silver	ppb	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1				
54	Specific Conductance	µS/cm	30 - 61	36	54 - 314	279	166 - 219	197	47 - 280	117	51 - 223	108				
55	Sulfate	ppm	1.2	1.2	36	36	14	14	1.4	1.4	4.1 - 4.2	4.2				
56	Thiobencarb	ppb									ND	ND				
57	Total Dissolved Solids	ppm	<20	<20	153	153	98	98	26	26	<20 - 107	50				
58	Turbidity	NTU	0.2 - 2.6	0.4	0.05 - 0.6	0.08	0.05 - 0.3	0.1	0.05 - 0.7	0.3	0.1 - 1.2	0.4				
59	Zinc	ppb	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2				
<b>Water Quality Parameters</b>																
60	Alkalinity as CaCO <sub>3</sub> , Total	ppm	3.1 - 14	8.8	8.6 - 102	79	39 - 64	51	11 - 78	31	11 - 59	28	11 - 68	31	3.1 - 103	43
61	Bromide	ppb	<50	<50	<50	<50	<50	<50								
62	Calcium as Ca	ppm	2.9	2.9	24	24	11	11	3.1	3.1						
63	Hardness as CaCO <sub>3</sub> , Total	ppm	6.9 - 13	8.8	11 - 103	86	38 - 59	47	7.9 - 89	29	9.9 - 57	25				
64	Magnesium	ppm	0.2	0.2	8.4	8.4	5.5	5.5	0.3	0.3						
65	pH	-	6.8 - 9.1	8.3	8.2 - 9.3	8.6	8.7 - 9.5	9.1	8.6 - 9.8	9.3	8.4 - 9.6	9.2	7.9 - 9.6	9.1	6.5 - 9.8	9
66	Phosphate, Ortho	ppm	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3								
67	Potassium	ppm	0.3	0.3	1.7	1.7	1.0	1.0								
68	Silica	ppm	4.9	4.9	9.4	9.4	4.4	4.4								
69	Sodium	ppm	2.7	2.7	19	19	20	20	5.3	5.3						
70	Temperature	°F	47 - 66	53	48 - 62	54	51 - 71	60	49 - 64	55	50 - 62	56				
71	Total Organic Carbon	ppm	1.1 - 2	1.6	0.6 - 3.3	2.3	2.1 - 2.8	2.5								
72	UV254	Abs/cm			0.01 - 0.07	0.04	0.04 - 0.05	0.05								
<b>Disinfectant Residuals, Disinfection Byproducts</b>																
73	Bromate	ppb	ND	ND	ND	ND	ND - 1.7	ND	ND	ND						
74	Chlorine Residual, Total	ppm			2.5 - 3.8	3.4	2.8 - 3.8	3.5	3.0 - 3.6	3.3	0.9 - 3.2	2.6	<0.1 - 3.6	2.6	0.5 - 3.8	3.3
75	Chlorite	ppb					ND	ND								
76	Five Haloacetic Acids	ppb	25 - 45	35	6.8 - 71	18	ND - 12	ND	ND - 55	31			7.9 - 77	36	ND - 67	27
77	Total Trihalomethanes	ppb	28 - 72	50	20 - 94	31	9.6 - 24	18	12 - 85	49			15 - 93	41	9.8 - 87	42
<b>Microorganisms</b>																
78	<i>Cryptosporidium</i> , Total <sup>(6)</sup>	#/L	0 - 0.02	0.004	0	0	0	0					0 - 0.03	0.006		
79	<i>Escherichia coli</i>	P/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
80	<i>Giardia</i> , Total <sup>(6)</sup>	#/L	0 - 0.13	0.033	0	0	0	0					0 - 0.07	0.013		
81	Total Coliform	P/A	1P - 257A	A	A	A	A	A	A	A	A	A	1P - 4028A	A	2P - 2007A	A
<b>Algae, Algal Toxins, Taste and Odor Related Contaminants</b>																
82	2,4,6-Trichloroanisole	ppt			<3	<3	<3	<3								
83	Algal Toxins - Anatoxin-α	ppb					<0.03	<0.03								
84	Algal Toxins - Cylindrospermopsin	ppb					<0.09	<0.09								
85	Algal Toxins - Saxitoxin	ppb					<0.022	<0.022								
86	Algal Toxins - Total Microcystins	ppb			<0.3	<0.3	<0.3	<0.3								
87	Geosmin	ppt			<3 - 3.4	<3	<3	<3								
88	Methylisoborneol (MIB)	ppt			<3	<3	<3	<3								
<b>Other Constituents</b>																
89	Ammonia as N, Free	ppm			0 - 0.04	0.002	0 - 0.03	0.001	0 - 0.04	0.004			0 - 0.41	0.06	0 - 0.13	0.003
90	Ammonia as N, Total	ppm	<0.03	<0.03	<0.03 - 0.14	0.05	<0.03 - 0.12	0.05	0.05 - 0.07	0.06			0.06 - 0.28	0.16	<0.03 - 0.14	0.05
91	Boron	ppb	22	22	65	65	32	32								

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No.	PARAMETERS <sup>(1)</sup>	Unit	Alameda East		SVWTP Effluent		HTWTP Effluent		CS2 Baden <sup>(2)</sup>		Sunset Reservoir Outlets <sup>(3)</sup>		Distribution System <sup>(4)</sup>		Transmission System <sup>(5)</sup>	
			Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
92	Chlorate, ClO <sub>3</sub> <sup>-</sup>	ppb	30	30	67 - 749	306	49 - 114	87	58	58						
93	Dissolved Organic Carbon	ppm	1.1 - 2.1	1.6												

**Notes:**

- Monitoring results showing no detections in the above table are reported as "Non-detected (ND)" if State's regulatory Detection Limits for Purposes of Reporting exist. Otherwise, the non-detects are shown as less than (" $<$ ") the corresponding laboratory reporting limits.
- CS2 at Baden is a representative point-of-entry to the San Francisco Water System, which supplies drinking water to the City of San Francisco.
- Compliance monitoring locations for treated water associated with San Francisco local wells are at Sunset Reservoir Outlets (SSO).
- Distribution system refers to the complex network of water pipelines within the City of San Francisco.
- Transmission system refers to the SFPUC's extensive network of water delivery pipelines located in the Bay Area but outside of the City of San Francisco. It also includes the GSR well system's compliance points.
- Monitoring results of *Cryptosporidium*-total and *Giardia*-total reported for Alameda East were from the upstream location at Tesla Portal.

**Keys:**

" < " = Less than the reporting limit  
 μS/cm = MicroSiemens/Centimeter  
 Abs/cm = Absorbance per centimeter  
 °F = Fahrenheit  
 ND = Non-Detected  
 NTU = Nephelometric Turbidity Unit  
 P/A = Presence/Absence

ppb = part per billion  
 ppm = part per million  
 ppt = part per trillion  
 CS2 = Crystal Springs Pipeline #2  
 HTWTP = Harry Tracy Water Treatment Plant  
 SVWTP = Sunol Valley Water Treatment Plant

	Contaminant in pink highlight has no drinking water standard in the reporting year
	Contaminant in blue highlight includes both compliance and operational monitoring results
	Contaminant in yellow highlight does not include results at customer taps
	Un-highlighted contaminant has an existing drinking water standard

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No.	PARAMETERS	Unit	Alameda East		SVWTP Effluent		HTWTP Effluent		SA2 Baden		SSL Baden		Sutro_LMPS		Sunset_LMPS		Sunset Reservoir Outlet (SSR_N)		Sunset Reservoir Outlet (SSR_S)	
			Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
1	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid	ppt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ppt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ppt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
5	4,8-Dioxa-3H-perfluorononanoic acid	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
6	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	ppt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
7	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ppt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
8	N-ethyl perfluorooctanesulfonamidoacetic acid	ppt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
9	N-methyl perfluorooctanesulfonamidoacetic acid	ppt	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
10	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ppt	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
11	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
12	Perfluoro-3-methoxypropanoic acid (PFMPA)	ppt	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
13	Perfluoro-4-methoxybutanoic acid (PFMBA)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
14	Perfluorobutanesulfonic acid (PFBS)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
15	Perfluorobutanoic acid (PFBA)	ppt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
16	Perfluorodecanoic acid (PFDA)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
17	Perfluorododecanoic acid (PFDoA)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
18	Perfluoroheptanesulfonic acid (PFHpS)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
19	Perfluoroheptanoic acid (PFHpA)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
20	Perfluorohexanesulfonic acid (PFHxS)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
21	Perfluorohexanoic acid (PFHxA)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
22	Perfluorononanoic acid (PFNA)	ppt	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
23	Perfluorooctanesulfonic acid (PFOS)	ppt	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
24	Perfluorooctanoic acid (PFOA)	ppt	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
25	Perfluoropentanesulfonic acid (PFPeS)	ppt	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
26	Perfluoropentanoic acid (PFPeA)	ppt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
27	Perfluorotetradecanoic acid (PFTA)	ppt	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
28	Perfluorotridecanoic acid (PFTrDA)	ppt	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
29	Perfluoroundecanoic acid (PFUnA)	ppt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
30	Lithium, Li	ppb	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9	<9

Keys:  
ppt = part per trillion  
SA2 = San Andreas Pipeline #2  
SSL = Sunset Pipeline  
LMPS = Lake Merced Pump Station  
UCMR = Unregulated Contaminant Monitoring Rule