

Sonoma County Water Agency - Caissons 1 thru 6 - 2021 Water Quality Report

CLARITY OF WATER FROM GROUNDWATER SOURCES	MCL	Units	Sample Frequency	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
Turbidity ⁽¹⁾	5 ⁽³⁾	NTU	continuous	average 0.044 range (0.035 - 2.0)	average 0.041 range (0.033 - 2.0)	average 0.024 range (0.009 - 2.0)	average 0.019 range (0.008 - 2.0)	average 0.028 range (0.018 - 2.0)	average 0.032 range (0.012 - 2.0)

	MCL	Units	# Samples	Distribution System Monitoring for 2021
MICROBIOLOGICAL - Coliform Bacteria	< 2 positive samples per month	coliforms/100ml	530	1 positive sample
DISINFECTANT - Total Chlorine Residual	> 95% per month	detectable residual	656	Detectable residual in 100% of samples taken
Total Trihalomethanes ⁽²⁾ - Tank Samples	0.080	mg/L	72	average = 0.0104 mg/L range = (0.0032 mg/L - 0.0213 mg/L)

VOLATILE ORGANIC COMPOUNDS	Units	STATE MCL	DLR	PHG { MCLG }	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
<i>Section 64444 - Table A</i>					18-Aug-21	8-Nov-21	17-Aug-21	17-Aug-21	17-Aug-21	18-Aug-21
Benzene	mg/L	0.001	0.0005	0.00015	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	mg/L	0.0005	0.0005	0.0001	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	mg/L	0.6	0.0005	0.6	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	mg/L	0.005	0.0005	0.006	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	mg/L	0.005	0.0005	0.003	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	mg/L	0.0005	0.0005	0.0004	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	mg/L	0.006	0.0005	0.01	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene (c-1,2-DCE)	mg/L	0.006	0.0005	0.013	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene (t-1,2-DCE)	mg/L	0.01	0.0005	0.05	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	mg/L	0.005	0.0005	0.004	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	mg/L	0.005	0.0005	0.0005	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane (Cis & Trans)	mg/L	0.0005	0.0005	0.0002	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/L	0.3	0.0005	0.3	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE) ⁽⁴⁾	mg/L	0.013	0.003	0.013	ND	ND	ND	ND	ND	ND
Monochlorobenzene (Chlorobenzene)	mg/L	0.07	0.0005	0.07	ND	ND	ND	ND	ND	ND
Styrene	mg/L	0.1	0.0005	0.0006	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	mg/L	0.001	0.0005	0.0001	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	mg/L	0.005	0.0005	0.00006	ND	ND	ND	ND	ND	ND
Toluene	mg/L	0.15	0.0005	0.15	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/L	0.005	0.0005	0.005	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	mg/L	0.2	0.0005	1.0	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	mg/L	0.005	0.0005	0.0003	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	mg/L	0.005	0.0005	0.0017	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	mg/L	0.15	0.005	1.3	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	mg/L	1.2	0.01	4	ND	ND	ND	ND	ND	ND
Vinyl Chloride (VC)	mg/L	0.0005	0.0005	0.00005	ND	ND	ND ⁽¹¹⁾	ND	ND	ND
Xylenes (m,p, & o)	mg/L	1.75	0.0005	1.8	ND	ND	ND	ND	ND	ND

⁽¹⁾ Turbidity: **Annual average** is the mean of the monthly average values, weighted by hours of pump operation each month.

Range refers to the minimum and maximum Turbidity readings recorded by the online Turbidimeters at each site.

⁽²⁾ Total Trihalomethanes: 40 CFR Section 141.12 - Is the sum of the concentrations of Bromodichloromethane, Dibromochloromethane, Bromoform, and Chloroform.

⁽³⁾ Secondary Standard.

⁽⁴⁾ Methyl tert-butyl ether (MTBE) is listed in both the Primary (Organic Chemicals - VOCs) and Secondary Standards.

⁽¹¹⁾ Caisson 3, result for Vinyl Chloride on 08-17-21 was 0.00508 mg/L. Both resample results (10-08-21 & 10-20-21) were ND (< 0.00050 mg/L).

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SYNTHETIC ORGANIC COMPOUNDS <i>Section 64444 - Table A</i>	Units	STATE MCL	DLR	PHG { MCLG }	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
					18-Aug-21	8-Nov-21	17-Aug-21	17-Aug-21	17-Aug-21	18-Aug-21
Alachlor	mg/L	0.002	0.001	0.004	ND	ND	ND	ND	ND	ND
Atrazine	mg/L	0.001	0.0005	0.00015	ND	ND	ND	ND	ND	ND
Bentazon	mg/L	0.018	0.002	0.2	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/L	0.0002	0.0001	0.000007	ND	ND	ND	ND	ND	ND
Carbofuran	mg/L	0.018	0.005	0.0007	ND	ND	ND	ND	ND	ND
Chlordane	mg/L	0.0001	0.0001	0.00003	ND	ND	ND	ND	ND	ND
2,4 - Dichlorophenoxyacetic acid (2,4-D)	mg/L	0.07	0.01	0.02	ND	ND	ND	ND	ND	ND
Dalapon	mg/L	0.2	0.01	0.79	ND	ND	ND	ND	ND	ND
Dibromochloropropane (1,2-Dibromo-3-chloropropane)	mg/L	0.0002	0.00001	0.000003	ND	ND	ND	ND	ND	ND
Di(2-ethylhexyl)adipate	mg/L	0.4	0.005	0.2	ND	ND	ND	ND	ND	ND
Di(2-ethylhexyl)phthalate (DEHP)	mg/L	0.004	0.003	0.012	ND	ND	ND	ND	ND	ND
Dinoseb	mg/L	0.007	0.002	0.014	ND	ND	ND	ND	ND	ND
Diquat	mg/L	0.02	0.004	0.006	ND	ND	ND	ND	ND	ND
Endothall	mg/L	0.1	0.045	0.094	ND	ND	ND	ND	ND	ND
Endrin	mg/L	0.002	0.0001	0.0003	ND	ND	ND	ND	ND	ND
Ethylene Dibromide (EDB) (1,2-Dibromoethane)	mg/L	0.00005	0.00002	0.00001	ND	ND	ND	ND	ND	ND
Glyphosate	mg/L	0.7	0.025	0.9	ND	ND	ND	ND	ND	ND
Heptachlor	mg/L	0.00001	0.00001	0.000008	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	mg/L	0.00001	0.00001	0.000006	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/L	0.001	0.0005	0.00003	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene ⁽¹²⁾	mg/L	0.05	0.001	0.002	(12)	(12)	(12)	(12)	(12)	(12)
Lindane (HCH-Gamma)	mg/L	0.0002	0.0002	0.000032	ND	ND	ND	ND	ND	ND
Methoxychlor	mg/L	0.03	0.01	0.00009	ND	ND	ND	ND	ND	ND
Molinate	mg/L	0.02	0.002	0.001	ND	ND	ND	ND	ND	ND
Oxamyl	mg/L	0.05	0.02	0.026	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/L	0.001	0.0002	0.0003	ND	ND	ND	ND	ND	ND
Picloram	mg/L	0.5	0.001	0.166	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (PCBs)	mg/L	0.0005	0.0005	0.00009	ND	ND	ND	ND	ND	ND
Simazine	mg/L	0.004	0.001	0.004	ND	ND	ND	ND	ND	ND
Thiobencarb ⁽⁵⁾⁽¹²⁾	mg/L	0.07	0.001	0.042	(12)	(12)	(12)	(12)	(12)	(12)
Toxaphene	mg/L	0.003	0.001	0.00003	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane (1,2,3-TCP)	µg/L	0.005	0.005	0.0007	ND	ND	ND	ND	ND	ND
2,3,7,8-TCDD (Dioxin)	mg/L	3 x 10 ⁻⁸	5 x 10 ⁻⁹	5 x 10 ⁻¹¹	ND	ND	ND	ND	ND	ND
2,4,5-TP (Silvex)	mg/L	0.05	0.001	0.003	ND	ND	ND	ND	ND	ND

⁽⁵⁾ Thiobencarb is listed in both the Primary (Organic Chemicals - SOCs) and Secondary Standards.

⁽¹²⁾ Hexachlorocyclopentadiene & Thiobencarb: Sonoma Water was not aware that our contract laboratory, Alpha Laboratories was no longer ELAP certified for these compounds at the time of sampling. These results were not included in this report. Alpha Laboratories is currently in the process of validating the method/analytes and will be applying for accreditation as soon as they can.

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INORGANIC CHEMICALS <i>Section 64431 - Table A</i>	Units	STATE MCL	DLR	PHG { MCLG }	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
					18-Aug-21	8-Nov-21	17-Aug-21	17-Aug-21	17-Aug-21	18-Aug-21
Aluminum ⁽⁶⁾	µg/L	1000	50	600	< 50	< 50	< 50	< 50	< 50	< 50
Antimony	µg/L	6	6	1	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Arsenic	µg/L	10	2	0.004	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Asbestos	MFL	7	0.2	7	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Barium	µg/L	1000	100	2000	< 100	< 100	< 100	< 100	< 100	< 100
Beryllium	µg/L	4	1	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	µg/L	5	1	0.04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chromium	µg/L	50	10	{ 100 }	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Hexavalent (CrVI)	µg/L	---	---	0.02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyanide	mg/L	0.15	0.1	0.15	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Fluoride (F) Natural-Source	mg/L	2.0	0.1	1	< 0.10	< 0.10	0.1	0.1	< 0.10	< 0.10
Mercury	µg/L	2	1	1.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	µg/L	100	10	12	< 10	< 10	< 10	< 10	< 10	< 10
Nitrate (as N)	mg/L	10	0.40	10	< 0.40	< 0.40 ⁽¹³⁾	< 0.40	< 0.40	< 0.40	< 0.40
Nitrate + Nitrite (as N)	mg/L	10	---	10	< 0.40	< 0.40 ⁽¹³⁾	< 0.40	< 0.40	< 0.40	< 0.40
Nitrite (as N)	mg/L	1	0.40	1	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Perchlorate	µg/L	6	2	1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Selenium	µg/L	50	5	30	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Thallium	µg/L	2	1	0.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

RADIONUCLIDE - <i>Section 64442</i>	Units	STATE MCL	DLR	PHG { MCLG }	Next Complete Sampling Due 2023					
					Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
Gross Alpha (4 quarterly samples every 9 years)										
11-Mar-14	pCi/L	15	3	{ 0 }	0.907 ± 1.10	0.455 ± 0.893	0.588 ± 0.977	0.936 ± 1.14	0.121 ± 0.777	0.000 ± 0.763
24-Jun-14	pCi/L	15	3	{ 0 }	0.113 ± 0.729	0.377 ± 0.854	0.047 ± 0.772	0.000 ± 0.694	0.000 ± 0.705	0.396 ± 0.944
19-Aug-14	pCi/L	15	3	{ 0 }	0.045 ± 0.740		0.000 ± 0.650		0.000 ± 0.728	
20-Aug-14	pCi/L	15	3	{ 0 }		0.277 ± 0.803		0.366 ± 0.829		1.36 ± 1.20
18-Nov-14	pCi/L	15	3	{ 0 }		0.000 ± 0.671	0.000 ± 0.749	0.380 ± 0.906	0.266 ± 0.769	0.337 ± 0.933
19-Nov-14	pCi/L	15	3	{ 0 }	0.019 ± 0.724					

⁽⁶⁾ Aluminum is listed in both the Primary (Inorganic Chemicals) and Secondary Standards.

⁽¹³⁾ The Caisson 2 result for Nitrate on 11-08-21 was 0.58 mg/L. Caisson 2 was resampled on 12-14-21. The resample results were Nitrate < 0.40 mg/L & Nitrite < 0.20 mg/L.

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SECONDARY STANDARDS <i>Section 64449 - Table A</i>	Units	Secondary MCL	DLR	PHG { MCLG }	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
					18-Aug-21	8-Nov-21	17-Aug-21	17-Aug-21	17-Aug-21	18-Aug-21
Aluminum ⁽⁶⁾	µg/L	200	50	600	< 50	< 50	< 50	< 50	< 50	< 50
Color	Color Units	15			3.0	4.0	< 3.0	< 3.0	3.0	< 3.0
Copper	µg/L	1300 ⁽⁷⁾	50	300	< 50	< 50	< 50	< 50	< 50	< 50
Foaming Agents (MBAS)	mg/L	0.5			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Iron	µg/L	300	100		< 100	< 100	< 100	< 100	< 100	< 100
Manganese	µg/L	50	20		< 20	< 20	< 20	< 20	< 20	< 20
Methyl tert-butyl ether (MTBE) ⁽⁴⁾	mg/L	0.005	0.003	0.013	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Odor - Threshold	TON	3	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Silver	µg/L	100	10		< 10	< 10	< 10	< 10	< 10	< 10
Thiobencarb. ^{(5) (12)}	mg/L	0.001	0.001	0.042	(12)	(12)	(12)	(12)	(12)	(12)
Turbidity	NTU	5			See page 1	See page 1	See page 1	See page 1	See page 1	See page 1
Zinc	µg/L	5000	50		< 50	< 50	< 50	< 50	< 50	< 50

SECONDARY STANDARDS <i>Section 64449 - Table B</i>	Units	Recommended MCL	DLR	Upper MCL	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
					18-Aug-21	8-Nov-21	17-Aug-21	17-Aug-21	17-Aug-21	18-Aug-21
Total Dissolved Solids	mg/L	500		1000	160	160	140	130	140	160
Specific Conductance	µS/cm	900		1600	220	260	210	210	230	240
Chloride	mg/L	250		500	11.0	6.0	5.5	5.5	5.6	6.4
Sulfate	mg/L	250	0.5	500	12	17	11	11	12	13

⁽⁴⁾ Methyl tert-butyl ether (MTBE) is listed in both the Primary (Organic Chemicals - VOCs) and Secondary Standards.

⁽⁵⁾ Thiobencarb is listed in both the Primary (Organic Chemicals - SOCs) and Secondary Standards.

⁽⁶⁾ Aluminum is listed in both the Primary (Inorganic Chemicals) and Secondary Standards.

⁽⁷⁾ Action Level under the Lead and Copper Rule.

⁽¹²⁾ Hexachlorocyclopentadiene & Thiobencarb: Sonoma Water was not aware that our contract laboratory, Alpha Laboratories was no longer ELAP certified for these compounds at the time of sampling. These results were not included in this report. Alpha Laboratories is currently in the process of validating the method/analytes and will be applying for accreditation as soon as they can.

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ADDITIONAL CONSTITUENTS ANALYZED	Units	STATE MCL	DLR	PHG { MCLG }	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
					18-Aug-21	8-Nov-21	17-Aug-21	17-Aug-21	17-Aug-21	18-Aug-21
pH	pH				7.42	7.54	7.42	7.50	7.34	7.03
Total Hardness, as CaCO ₃	mg/L				116	126	100	108	118	128
Calcium	mg/L				22	25	19	21	23	23
Magnesium	mg/L				15	15	13	13	15	17
Sodium	mg/L				9.9	9.3	9.5	10.0	9.3	9.3
Potassium	mg/L				1.1	1.0	1.3	1.3	1.1	1.1
Total Alkalinity as CaCO ₃	mg/L				100	120 ⁽¹⁴⁾	93	100	110	110
Hydroxide	mg/L				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbonate	mg/L				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bicarbonate	mg/L				100	120 ⁽¹⁴⁾	93	100	110	110
Agressiveness Index					11.16	11.66	11.06	11.23	11.14	10.83
Lead	µg/L	15 ⁽⁷⁾	5	0.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Boron	µg/L	1000 ⁽⁸⁾			250 ⁽¹⁵⁾	270 ⁽¹⁵⁾	230 ⁽¹⁵⁾	240 ⁽¹⁵⁾	260 ⁽¹⁵⁾	240 ⁽¹⁵⁾
Total Radon 222 ± Counting Error	pCi/L		100		209 ± 22.9	98.8 ± 20.7	231 ± 25.9	207 ± 24.9	314 ± 28.8	199 ± 22.5
1,4 Dioxane	µg/L	1.0 ⁽⁸⁾⁽¹⁰⁾			<0.070 ⁽¹⁶⁾	<0.070 ⁽¹⁶⁾	4.2 ⁽¹⁶⁾	<0.070 ⁽¹⁶⁾	<0.070 ⁽¹⁶⁾	<0.070 ⁽¹⁶⁾
N-Nitrosodimethylamine (NDMA)	µg/L	0.01 ⁽⁸⁾		0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Perfluorooctyl Sulfonate (PFOS)	µg/L	0.0065 ⁽⁸⁾⁽⁹⁾	0.040		< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Perfluorooctanoic Acid (PFOA)	µg/L	0.0051 ⁽⁸⁾⁽⁹⁾	0.020		< 0.0020	< 0.0020 ⁽¹⁷⁾	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Perfluoro-1-butananesulfonic acid (PFBS)	µg/L	0.5 ⁽⁸⁾⁽⁹⁾			< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020

⁽⁷⁾ Action Level under the Lead and Copper Rule.

⁽⁸⁾ Notification Level.

⁽⁹⁾ Response Level for: PFOS = 0.040 µg/L, PFOA = 0.010 µg/L, PFBS = 5 µg/L.

⁽¹⁰⁾ Response Level for: 1,4 Dioxane = 35 µg/L.

⁽¹⁴⁾ The Caisson 2 result for Total and Bicarbonate Alkalinity on 11-08-21 was 210 mg/L. Caisson 2 was resampled on 12-14-21. The resample results were Total Alkalinity 120 mg/L & Bicarbonate Alkalinity 120 mg/L.

⁽¹⁵⁾ Boron collected for Caissons 1, 2, 4, 5, 6, on 11-08-21. Caisson 3 collected on 10-20-21.

⁽¹⁶⁾ 1, 4 Dioxane collected for Caisson 3 on 10-20-21 and Caissons 1, 2, 4, 5, 6, on 11-08-21. Caisson 3 to be re-collected March 2022.

⁽¹⁷⁾ The Caisson 2 result for Perfluorooctanoic Acid (PFOA) on 11-08-21 was 0.0031 µg/L. Caisson 2 was resampled on 12-14-21. The resample result was < 0.0020 µg/L.

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NOTES:

- MCL:** Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set close to the PHGs and MCLGs as is economically and technologically feasible. Blanks indicate that no numerical values have been established.
- DLR:** Detection Limits for the Purposes of Reporting: The designated minimum level at or above which any analytical finding of a contaminant in drinking water resulting from monitoring shall be reported. Blanks indicate that no numerical values have been established.
- MCLG:** Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency. Blanks indicate that no numerical values have been established.
- PHG:** Public Health Goal: The level of a contaminant in drinking water that pose no significant health risk if consumed for a lifetime based on current risk assessment principles, practices, and methods. PHGs are established by the Office of Environmental Health Hazard Assessment (OEHHA). Blanks indicate that no numerical values have been established.
- Notification Levels:** Notification Levels: Notification levels are health-based advisory levels established by the Division of Drinking Water (DDW) for chemicals in drinking water that lack maximum contaminant levels (MCLs). When chemicals are found at concentrations greater than their notification levels, certain requirements and recommendations apply. The level at which DDW recommends removal of a drinking water source from service is called the "response level."
- Response Levels:** Response Levels: The level at which DDW recommends that the drinking water system take the source out of service if a chemical is present at levels considerably higher than its notification level.
- Unregulated Contaminants:** Unregulated Contaminants: Constituents that do not have drinking water standards and have been determined by DDW or EPA to warrant monitoring for occurrence data.

$\mu\text{g/L}$:	Micrograms per liter (equals parts per billion)	TON:	Threshold Odor Number
mg/L:	Milligrams per liter (equals parts per million)	$\mu\text{mho/cm}$:	Micromhos per centimeter
pCi/L:	Picocuries per liter (a measure of radioactivity)	ND:	Non detected
NTU:	Nephelometric Turbidity Units	N/A:	Not available
MFL:	Million fibers per liter greater than 10 micrometers		

Production 1, 4, & 7: Wells 1 through 7. Collectively referred to as the "Russian River Well Field". Chemical monitoring required on Wells 1, 4, & 7.

FOOTNOTES:

⁽¹⁾ Turbidity: Turbidity readings are collected approximately every 2.5 minutes.

Annual average is the mean of the monthly average values, weighted by hours of pump operation each month.

Range refers to the minimum and maximum Turbidity readings recorded by the online Turbidimeters at each site.

⁽²⁾ Total Trihalomethanes: 40 CFR Section 141.12 - Is the sum of the concentrations of Bromodichloromethane, Dibromochloromethane, Bromoform, and Chloroform.

⁽³⁾ Secondary Standard

⁽⁴⁾ Methyl tert-butyl ether (MTBE) is listed in both the Primary (Organic Chemicals - VOCs) and Secondary Standards.

⁽⁵⁾ Thiobencarb is listed in both the Primary (Organic Chemicals - SOCs) and Secondary Standards.

⁽⁶⁾ Aluminum is listed in both the Primary (Inorganic Chemicals) and Secondary Standards.

⁽⁷⁾ Action Level under the Lead and Copper Rule.

⁽⁸⁾ Notification Level.

⁽⁹⁾ Response Level for: PFOS = 0.040 µg/L, PFOA = 0.010 µg/L, PFBS = 5 µg/L.

⁽¹⁰⁾ Response Level for: 1,4 Dioxane = 35 µg/L.

⁽¹¹⁾ Caisson 3, result for Vinyl Chloride on 08-17-21 was 0.00508 mg/L. Both resample results (10-06-21 & 10-20-21) were ND (< 0.00050 mg/L).

⁽¹²⁾ Hexachlorocyclopentadiene & Thiobencarb: Sonoma Water was not aware that our contract laboratory, Alpha Laboratories was no longer ELAP certified for these compounds at the time of sampling. These results were not included in this report. Alpha Laboratories is currently in the process of validating the method/analytes and will be applying for accreditation as soon as they can.

⁽¹³⁾ The Caisson 2 result for Nitrate on 11-08-21 was 0.58 mg/L. Caisson 2 was resampled on 12-14-21. The resample results were Nitrate < 0.40 mg/L & Nitrite < 0.20 mg/L.

⁽¹⁴⁾ The Caisson 2 result for Total and Bicarbonate Alkalinity on 11-08-21 was 210 mg/L. Caisson 2 was resampled on 12-14-21. The resample results were Total Alkalinity 120 mg/L & Bicarbonate Alkalinity 120 mg/L.

⁽¹⁵⁾ Boron collected for Caissons 1, 2, 4, 5, 6, on 11-08-21. Caisson 3 collected on 10-20-21.

⁽¹⁶⁾ 1, 4 Dioxane collected for Caisson 3 on 10-20-21 and Caissons 1, 2, 4, 5, 6, on 11-08-21. Caisson 3 to be re-collected March 2022.

⁽¹⁷⁾ The Caisson 2 result for Perfluorooctanoic Acid (PFOA) on 11-08-21 was 0.0031 µg/L. Caisson 2 was resampled on 12-14-21. The resample result was < 0.0020 µg/L.