

Sonoma County Water Agency - Caissons 1 thru 6 - 2018 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 0.043 range (0.035 - 2.0)	average 0.035 range (0.022 - 2.0)	average 0.031 range (0.026 - 0.091)	average 0.042 range (0.021 - 2.0)	average 0.033 range (0.026 - 2.0)	average 0.033 range (0.024 - 2.0)

MICROBIOLOGICAL - Coliform Bacteria	MCL	Units	# Samples	Distribution System Monitoring for 2018
DISINFECTANT - Total Chlorine Residual	< 2 positive samples per month	coliforms/100ml	540	1 positive samples
Total Trihalomethanes ⁽²⁾ - Tank Samples	> 95% per month	detectable residual	541	Detectable residual in 100% of samples taken
	0.080	mg/L	72	average = 0.0123 mg/L range = (0.0047 mg/L - 0.0211 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>					27-Aug-18	27-Aug-18	11-Sep-18	4-Sep-18	4-Sep-18	27-Aug-18
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	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	0.0005	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	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⁾ MCL: Secondary Standard.

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

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SYNTHETIC ORGANIC COMPOUNDS <i>Section 64444 - Table A</i>	Units	STATE	DLR	PHG	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
		MCL		{ MCLG }	27-Aug-18	27-Aug-18	11-Sep-18	4-Sep-18	4-Sep-18	27-Aug-18
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 ⁽¹²⁾	ND ⁽¹²⁾	ND	ND	ND	ND ⁽¹²⁾
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 (DBCP)	mg/L	0.0002	0.00001	0.0000017	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
Endothal	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)	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	mg/L	0.05	0.001	0.002	ND	ND	ND	ND	ND	ND
Lindane (gamma - BHC)	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 ⁽¹²⁾	ND ⁽¹²⁾	ND	ND	ND	ND ⁽¹²⁾
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⁾	mg/L	0.07	0.001	0.042	ND	ND	ND	ND	ND	ND
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⁾ Carbofuran and Oxamyl resampled 8-29-18. Original samples from 8-27-18 exceeded hold time at the laboratory. (Method 531.1)

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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
					27-Aug-18	27-Aug-18	11-Sep-18	4-Sep-18	4-Sep-18	27-Aug-18
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	< 0.50	< 0.50	< 0.50 ⁽⁶⁾	< 0.50	< 0.50	< 0.50
Cyanide	mg/L	0.15	0.1	0.15	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Fluoride (F) Natural-Source	mg/L	2.0	0.1	1	< 0.10	< 0.10	< 0.10	< 0.10	< 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	< 0.40	< 0.40	< 0.40	< 0.40
Nitrate + Nitrite (as N)	mg/L	10	---	10	< 0.40	< 0.40	< 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	4	1	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
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.

⁽⁶⁾ Hexavalent Chromium and Color resampled 10-16-18 for Caisson 3. Initial sample results from 10-11-18 were suspect. (Original results: Hexavalent Chromium 1.5 ug/L and Color 4 CU)

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SECONDARY STANDARDS	Units	Secondary	DLR	PHG	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
<i>Section 64449 - Table A</i>		MCL		{ MCLG }	27-Aug-18	27-Aug-18	11-Sep-18	4-Sep-18	4-Sep-18	27-Aug-18
Aluminum ⁽⁶⁾	µg/L	200	50	600	< 50	< 50	< 50	< 50	< 50	< 50
Color	Color Units	15			< 3.0	< 3.0 ⁽¹⁰⁾	< 3.0 ⁽⁹⁾	< 3.0	< 3.0	< 3.0
Copper	µg/L	1000	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⁾	mg/L	0.001	0.001	0.042	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
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	Units	Recommended	DLR	Upper	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
<i>Section 64449 - Table B</i>		MCL		MCL	27-Aug-18	27-Aug-18	11-Sep-18	4-Sep-18	4-Sep-18	27-Aug-18
Total Dissolved Solids	mg/L	500		1000	130	130	130	140	130	150
Specific Conductance	µS/cm	900		1600	240	220	270	240	230	260
Chloride	mg/L	250		500	5.2	5.2	7.0	5.4	5.2	5.3
Sulfate	mg/L	250	0.5	500	11	12	29	12	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.

⁽⁹⁾ Hexavalent Chromium and Color resampled 10-16-18 for Caisson 3. Initial sample results from 10-11-18 were suspect. (Original results: Hexavalent Chromium 1.5 µg/L and Color 4 CU)

⁽¹⁰⁾ NDMA and Color resampled 10-2-18 and 11-8-18 respectively for Caisson 2. Initial sample from 8-27-18: NDMA (sample bottle broke) and the color sample result was suspect. (Color result 4 CU)

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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
					27-Aug-18	27-Aug-18	11-Sep-18	4-Sep-18	4-Sep-18	27-Aug-18
pH	pH				7.44	7.50	7.21	7.51	7.41	7.24
Total Hardness as CaCO ₃	mg/L				105	101	112	98	97	109
Calcium	mg/L				21	21	23	19	19	21
Magnesium	mg/L				13	12	13	12	12	14
Sodium	mg/L				8.4	8.3	8.8	8.5	7.7	8.3
Potassium	mg/L				1.1	1.1	1.2	1.2	1.0	1.0
Total Alkalinity as CaCO ₃	mg/L				100	97	110	96	96	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				120	120	140	120	120	130
Agressiveness Index					11.09	11.08	15.12	11.15	10.75	11.20
Lead	µg/L	15 ⁽⁷⁾	5	0.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Radon 222 ± Counting Error	pCi/L		100		157 ± 23.4	162 ± 22.8	176 ± 25.9	145 ± 22.1	107 ± 20.4	185 ± 24.7
N-Nitrosodimethylamine (NDMA)	µg/L	0.01 ⁽⁸⁾		0.003	< 0.002	< 0.002 ⁽¹⁰⁾	< 0.002	< 0.002	< 0.002	< 0.002
Perfluorooctyl Sulfonate (PFOS)	µg/L		0.040	0.013	ND	ND	ND ⁽¹¹⁾	ND	ND	ND
Perfluorooctanoic Acid (PFOA)	µg/L		0.020	0.014	ND	ND	ND ⁽¹¹⁾	ND	ND	ND

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

⁽⁸⁾ Notification Level.

⁽¹⁰⁾ NDMA and Color resampled 10-2-18 and 11-8-18 respectively for Caisson 2. Initial sample from 8-27-18: NDMA (sample bottle broke) and the color sample result was suspect. (Color result 4 CU)

⁽¹¹⁾ PFOS and PFOA resampled 10-16-18 for Caisson 3. Initial sample results from 9-4-18 were suspect. (Original results: PFOS 0.0021 ug/L PFOA 0.0036 ug/L)

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NOTES:

MCL:	<u>Maximum Contaminant Level:</u> 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:	<u>Detection Limits for the Purposes of Reporting:</u> 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:	<u>Maximum Contaminant Level Goal:</u> 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:	<u>Public Health Goal:</u> The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are determined by the Office of Environmental Health Hazard Assessment. Blanks indicate that no numerical values have been established.		
Notification Levels:	<u>Notification Levels:</u> Are health-based advisory levels established by DHS for chemicals in drinking water that lack Maximum Contamination Levels (MCL).		
Unregulated Contaminant:	<u>Unregulated Contaminant:</u> Constituents that do not have drinking water standards and have been determined by CDHS or EPA to warrant monitoring for occurrence data.		
µg/L:	Micrograms per liter (equals parts per billion)	TON:	Threshold Odor Number
mg/L:	Milligrams per liter (equals parts per million)	µmho/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. <i>Annual average</i> is the mean of the monthly average values, weighted by hours of pump operation each month. <i>Range</i> 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) MCL:	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) Hexavalent Chromium and Color resampled 10-16-18 for Caisson 3. Initial sample results from 10-11-18 were suspect. (Original results: Hexavalent Chromium 1.5 ug/L and Color 4 CU)

(10) NDMA and Color resampled 10-2-18 and 11-8-18 respectively for Caisson 2. Initial sample from 8-27-18: NDMA (sample bottle broke) and the color sample result was suspect. (Color result 4 CU)

(11) PFOS and PFOA resampled 10-16-18 for Caisson 3. Initial sample results from 9-4-18 were suspect. (Original results: PFOS 0.0021 ug/L PFOA 0.0036 ug/L)

(12) Carbofuran and Oxamyl resampled 8-29-18. Original samples from 8-27-18 exceeded hold time at the laboratory. (Method 531.1)