

**Appendix 5.17 - Summary of Raw Water Quality
Hodges System Streams¹ 2011-2015**

Parameters	Units	DLR*/MD L	Drinking Water Standards ²		No. of Samples	Raw Water Quality**			
			MCL	SMCL		Min	Max	Mean	Median
General Physical									
Calcium Hardness (CaCO ₃)	MG/L	10			15	44.9	404	195	173
pH	PH				289	5.66	9.59	7.46	7.5
Specific Conductance (E.C.)	US/CM			1600	334	90.6	4160	1940	2170
Total Filterable Residue @ 180 C (TDS)	MG/L	40		1000	301	110	4160	1310	1470
Total Hardness (CaCO ₃)	MG/L	10			15	81	859	392	317
Total Suspended Solids (TSS)	MG/L	10			299	1	111	8.22	3.3
			MCL	SMCL		Min	Max	Mean	Median
Microbiological									
Enterococcus	/100 ML				238	<1	>2400	523	200
Escherichia Coli	/100 ML				238	<10	39000	853	100
Total Coliform	/100 ML				238	100	>240000	27420	8250
			MCL	SMCL		Min	Max	Mean	Median
Metals³									
Aluminum (Al)	UG/L	50	1000	200	3	75.3	1410	530	106
Antimony	UG/L	6	6		3	ND	ND	ND	ND
Arsenic	UG/L	2	10		3	ND	ND	ND	ND
Barium (Ba)	UG/L	100	1000		3	ND	ND	ND	ND
Beryllium	UG/L	1	4		3	ND	ND	ND	ND
Boron	UG/L	100			3	ND	164	121	102
Cadmium (Cd)	UG/L	1	5		3	ND	ND	ND	ND
Calcium (Ca)	MG/L				45	18	151	96.6	98.3
Chromium (Total Cr)	UG/L	10	50		3	ND	ND	ND	ND
Copper (Cu)	UG/L	50	1300	1000	3	ND	ND	ND	ND
Iron (Fe)	UG/L	100		300	33	ND	4960	512	118
Lead (Pb)	UG/L	5	15		3	ND	ND	ND	ND
Magnesium (Mg)	MG/L				45	0	93.5	60.3	74.7
Manganese (Mn)	UG/L	20		50	44	ND	2980	481	272
Nickel	UG/L	10	100		3	ND	ND	ND	ND
Potassium (K)	MG/L	0.5			34	1.15	5.85	2.92	2.81
Selenium (Se)	UG/L	5	50		3	ND	ND	ND	ND
Silver	UG/L	10		100	3	ND	ND	ND	ND
Sodium (Na)	MG/L	20			35	0	200	135	159
Thallium	UG/L	1	2		3	ND	ND	ND	ND
Vanadium	UG/L	3			3	ND	7.48	4.46	5.89
Zinc (Zn)	UG/L	50		5000	3	ND	ND	ND	ND
			MCL	SMCL		Min	Max	Mean	Median
Inorganic Constituents									
Ammonia-N	MG/L	0.062			300	ND	0.409	ND	ND
Bromide	MG/L	0.5			74	ND	1.29	0.269	0.226
Chloride	MG/L	2.5		500	74	17.3	473	262	296
Fluoride	MG/L	0.1	2		74	ND	0.783	0.381	0.354
Nitrate (as NO ₃)	MG/L	2	45		301	ND	53.3	5.77	3.36
Nitrite (NO ₂)	MG/L	1.31	3.28		301	ND	ND	ND	ND
Phosphate, Ortho (as PO ₄)	MG/L	1			298	ND	1.73	ND	ND
Phosphorus	MG/L	0.39			295	ND	0.961	ND	ND
Sulfate (SO ₄)	MG/L	0.5		500	74	21	685	340	365
Total Nitrogen	MG/L	0.78			294	ND	13.5	1.54	1.06
			MCL	SMCL		Min	Max	Mean	Median
Organic Constituents, Regulated									
1,1,1-Trichloroethane (1,1,1-TCA)	UG/L	0.5	200		7	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	UG/L	0.5	1		7	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	UG/L	0.5	5		7	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	UG/L	0.5	5		7	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	UG/L	0.5	6		7	ND	ND	ND	ND
1,2,4-Trichlorobenzene	UG/L	0.5	5		7	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	UG/L	0.5	600		7	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	UG/L	0.5	0.5		7	ND	ND	ND	ND

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1,2-Dichloropropane	UG/L	0.5	5		7	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	UG/L	0.5	5		7	ND	ND	ND
2,4,5-TP (SILVEX)	UG/L	1	50		5	ND	ND	ND
2,4-D	UG/L	10	70		5	ND	ND	ND
Bentazon (BASAGRAN)	UG/L	2	18		5	ND	ND	ND
Benzene	UG/L	0.5	1		7	ND	ND	ND
Bromodichloromethane	UG/L	1			7	ND	ND	ND
Bromoform	UG/L	1			7	ND	ND	ND
Carbofuran (FURADAN)	UG/L	5	18		3	ND	ND	ND
Carbon Tetrachloride	UG/L	0.5	0.5		7	ND	ND	ND
Chlorodibromomethane	UG/L	1			7	ND	ND	ND
Chloroform (Trichloromethane)	UG/L	1			7	ND	ND	ND
cis-1,2-Dichloroethylene (c-1,2-DCE)	UG/L	0.5	6		7	ND	ND	ND
Dibromochloropropane (DBCP)	UG/L	0.01	0.2		7	ND	ND	ND
Dichloromethane (Methylene Chloride)	UG/L	0.5	5		7	ND	ND	ND
Dinoseb (DNBP)	UG/L	2	7		5	ND	ND	ND
Ethyl Benzene	UG/L	0.5	300		7	ND	ND	ND
Ethylene Dibromide (EDB)	UG/L	0.02	0.05		7	ND	ND	ND
meta,para xylenes	UG/L	0.5			7	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	UG/L	3	13	5	7	ND	ND	ND
Monochlorobenzene (Chlorobenzene)	UG/L	0.5	70		7	ND	ND	ND
Oxamyl (Vydate)	UG/L	20	50		3	ND	ND	ND
o-Xylene	UG/L	0.5			7	ND	ND	ND
Pentachlorophenol (PCP)	UG/L	0.2	1		5	ND	ND	ND
Picloram	UG/L	1	500		5	ND	ND	ND
Styrene	UG/L	0.5	100		7	ND	ND	ND
Tetrachloroethylene (PCE)	UG/L	0.5	5		7	ND	ND	ND
Toluene	UG/L	0.5	150		7	ND	ND	ND
Total Organic Carbon (TOC)	MG/L	3			304	ND	73.1	6.1 5.33
trans-1,2-Dichloroethylene (t-1,2-DCE)	UG/L	0.5	10		7	ND	ND	ND
Trichloroethylene (TCE)	UG/L	0.5	5		7	ND	ND	ND
Trichlorofluoromethane (FREON 11)	UG/L	5	150		7	ND	ND	ND
Trichlorotrifluoroethane (FREON 113)	UG/L	10	1200		7	ND	ND	ND
Vinyl Chloride (VC)	UG/L	0.5	0.5		7	ND	ND	ND
Organic Constituents, Unregulated			MCL	SMCL		Min	Max	Mean Median
1,1,1,2-Tetrachloroethane	UG/L	0.5			7	ND	ND	ND ND
1,1-Dichloropropene	UG/L	0.5			7	ND	ND	ND ND
1,2,3-Trichlorobenzene	UG/L	0.5			7	ND	ND	ND ND
1,2,4-Trimethylbenzene	UG/L				7	ND	ND	ND ND
1,3,5-Trimethylbenzene	UG/L	0.5			7	ND	ND	ND ND
1,3-Dichlorobenzene (m-DCB)	UG/L	0.5			7	ND	ND	ND ND
1,3-Dichloropropane	UG/L	0.5			7	ND	ND	ND ND
2,2-Dichloropropane	UG/L	0.5			7	ND	ND	ND ND
2,4,5-T	UG/L	3			5	ND	ND	ND ND
2,4-DB	UG/L	3			5	ND	ND	ND ND
2-Chlorotoluene	UG/L	0.5			7	ND	ND	ND ND
3,5-Dichlorobenzoic Acid	UG/L	3			5	ND	ND	ND ND
3-Hydroxycarbofuran	UG/L	3			3	ND	ND	ND ND
4-Chlorotoluene	UG/L	0.5			7	ND	ND	ND ND
4-Nitrophenol	UG/L	5			5	ND	ND	ND ND
Acifluorfen	UG/L	3			5	ND	ND	ND ND
Aldicarb (TEMIK)	UG/L	3			3	ND	ND	ND ND
Aldicarb Sulfone	UG/L	4			3	ND	ND	ND ND
Aldicarb Sulfoxide	UG/L	3			3	ND	ND	ND ND

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Baygon	UG/L	0.4		3	ND	ND	ND	ND
Bromobenzene	UG/L	0.5		7	ND	ND	ND	ND
Bromochloromethane	UG/L	0.5		7	ND	ND	ND	ND
Bromomethane (Methyl Bromide)	UG/L	0.5		7	ND	ND	ND	ND
Carbaryl (Sevin)	UG/L	5		3	ND	ND	ND	ND
Chloramben	UG/L	3		5	ND	ND	ND	ND
Chloroethane	UG/L	0.5		7	ND	ND	ND	ND
Chloromethane (Methyl Chloride)	UG/L	0.5		7	ND	ND	ND	ND
cis-1,3-dichloropropene	UG/L	0.5		7	ND	ND	ND	ND
Dibromomethane	UG/L	0.5		7	ND	ND	ND	ND
Dicamba (BANVEL)	UG/L	1.5		5	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	UG/L	0.5		7	ND	ND	ND	ND
Dichlorprop	UG/L	3		5	ND	ND	ND	ND
Diisopropyl Ether (DIPE)	UG/L	3		7	ND	ND	ND	ND
Ethyl-tert-Butyl Ether (ETBE)	UG/L	3		7	ND	ND	ND	ND
Hexachlorobutadiene	UG/L	0.5		7	ND	ND	ND	ND
Isopropylbenzene (Cumene)	UG/L	0.5		7	ND	ND	ND	ND
MCPA	UG/L	3		5	ND	ND	ND	ND
MCP	UG/L	3		5	ND	ND	ND	ND
Methiocarb	UG/L	0.4		3	ND	ND	ND	ND
Methomyl	UG/L	2		3	ND	ND	ND	ND
Naphthalene	UG/L	0.5		7	ND	ND	ND	ND
n-Butylbenzene	UG/L	0.5		7	ND	ND	ND	ND
n-Propylbenzene	UG/L	0.5		7	ND	ND	ND	ND
p-Isopropyltoluene	UG/L	0.4		7	ND	ND	ND	ND
sec-Butylbenzene	UG/L	0.5		7	ND	ND	ND	ND
tert-Amyl Methyl Ether (TAME)	UG/L	3		7	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)	UG/L	2		7	ND	ND	ND	ND
tert-Butylbenzene	UG/L	0.5		7	ND	ND	ND	ND
trans-1,3-dichloropropene	UG/L	0.5		7	ND	ND	ND	ND

NOTES:

* The State of California DLR values are used when available. Parameters without DLR values were reported as MDL levels.

** The acceptance criteria in this table apply to finished, potable water, and are for reference only.

(1) The sampling points summarized are: CDC4, DDC3, FEL2, FEL3, GJC4, GVC2, KCC3, MON2, SMC4, SYC2, TEM1 AND YSA8

(2) State MCL and MCLG values may be more stringent than federal standards for treated water.

(3) Trace metal values were from filtered and unfiltered samples. Differences in values were negligible.