WATER QUALITY (SOURCE) MONITORING SCHEDULE

Community System, <150 connections, groundwater

UPDATED JANUARY 2018

This schedule supersedes all previous monitoring schedules.

Chemical - Title 22	MCL (mg/L)	EPA Method	Frequency
Primary Inorganics - Section 64432			
Aluminum	1		Every 3 years*
Antimony	0.006		Every 3 years*
Arsenic	0.010		Every 3 years*
Barium	1		Every 3 years*
Beryllium	0.004		Every 3 years*
Cadmium	0.005		Every 3 years*
Chromium, Hexavalent	0.01		NA
Chromium, Total	0.05		Every 3 years
Cyanide	0.15		Every 3 years***
Fluoride	2.0		Every 3 years*
Mercury	0.002		Every 3 years*
Nickel	0.1		Every 3 years*
Perchlorate	0.006		Yearly
Selenium	0.05		Every 3 years*
Thallium	0.002		Every 3 years*
Asbestos - Section 64432.2			
Asbestos - Source Water	7 MFL		Every 9 years
Asbestos - Distribution System sampling ***if Asbestos-Cement pipe used***	7 MFL		***Every 9 years*** if Aggressive Index ≤ 11.5
Nitrate/Nitrite - Section 64432.1			
Nitrate (as N)	10		Annually if < 5 mg/L**
Nitrite (as nitrogen)	1		Every 3 years if <0.5mg/L***
Nitrate + Nitrite (sum as nitrogen)	10		Waived after initial testing
Secondary Standards - Table 64449-A			
Aluminum	0.2		Every 3 years
Color	15		Every 3 years
Copper	1.0		Every 3 years
Foaming Agents	0.5		Every 3 years
Iron	0.3		Every 3 years
Manganese	0.05		Every 3 years
Methyl-*tert*-butyl ether (MTBE)	0.005	502.2, 524.2	See MTBE frequency on page 2
Odor	3		Every 3 years
Silver	0.1		Every 3 years
Thiobencarb	0.001		Every 3 years
Turbidity	5		Every 3 years
Zinc	5		Every 3 years
General Minerals - Section 64449			
Bicarbonate	N/A		Every 3 years
Carbonate	N/A		Every 3 years
Hydroxide Alkalinity	N/A		Every 3 years
Calcium	N/A		Every 3 years
Magnesium	N/A		Every 3 years
Sodium	N/A		Every 3 years
Hardness	N/A		Every 3 years
pH	N/A		Every 3 years
Secondary Standards - Table 64449-B			
TDS	500-1000;1500		Every 3 years
Specific Conductance	900-1600; 2200		Every 3 years
Chloride	250-500;600		Every 3 years
Sulfate	250-500;600		Every 3 years

MCL = Maximum Contaminant Level

*Frequency applies to IOCs < MCL at initial testing. Any IOCs > 50% MCL may be subject to quarterly monitoring. Sampling shall be increased to quarterly following any IOC result > MCL.

**Nitrate sampling shall be increased to quarterly following any result ≥ 5 mg/L.This may be reduced to annually, if all 4 quarterly results are < MCL.

***Nitrite sampling shall be increased to quarterly following any result ≥ 0.5 mg/L. This may be reduced to annually, if all 4 quarterly results are < MCL.

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Chemical - Title 22	MCL (mg/L)	EPA Method	Frequency *
VOCs - Table 64444-A (a)			
Benzene	0.001	502.2, 524.2	Every 3 years *
Carbon Tetrachloride	0.0005	502.2, 524.2	Every 3 years *
1,2-Dichlorobenzene	0.6	502.2, 524.2	Every 3 years *
1,4-Dichlorobenzene	0.005	502.2, 524.2	Every 3 years *
1,1-Dichloroethane	0.005	502.2, 524.2	Every 3 years *
1,2-Dichloroethane	0.0005	502.2, 524.2	Every 3 years *
1,1-Dichloroethylene	0.006	502.2, 524.2	Every 3 years *
cis-1,2-Dichloroethylene	0.006	502.2, 524.2	Every 3 years *
trans-1,2-Dichloroethylene	0.01	502.2, 524.2	Every 3 years *
Dichloromethane	0.005	502.2, 524.2	Every 3 years *
1,2-Dichloropropane	0.005	502.2, 524.2	Every 3 years *
1,3-Dichloropropene	0.0005	502.2, 524.2	Every 3 years *
Ethylbenzene	0.3	502.2, 524.2	Every 3 years *
Methyl-*tert*-butyl ether (MTBE)	0.013	502.2, 524.2	Every 3 years *
Monochlorobenzene	0.07	502.2, 524.2	Every 3 years *
Styrene	0.1	502.2, 524.2	Every 3 years *
1,1,2,2-Tetrachloroethane	0.001	502.2, 524.2	Every 3 years *
Tetrachloroethylene (PCE)	0.005	502.2, 524.2	Every 3 years *
Toluene	0.15	502.2, 524.2	Every 3 years *
1,2,4-Trichlorobenzene	0.005	502.2, 524.2	Every 3 years *
1,1,1-Trichloroethane	0.200	502.2, 524.2	Every 3 years *
1,1,2-Trichloroethane	0.005	502.2, 524.2	Every 3 years *
Trichloroethylene (TCE)	0.005	502.2, 524.2	Every 3 years *
Trichlorofluoromethane	0.15	502.2, 524.2	Every 3 years *
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	502.2, 524.2	Every 3 years *
Vinyl Chloride	0.0005	502.2, 524.2	Every 3 years *
Xylenes (total)	1.750	502.2, 524.2	Every 3 years *
SOCs - Table 64444-A (b)			
Alachlor	0.002		Every 3 Years **
Atrazine	0.001	505, 507, 508.1, 525.2	Every 3 Years **
Bentazon	0.018		Every 3 Years **
Benzo(a)pyrene	0.0002		Every 3 Years **
Carbofuran	0.018		Every 3 Years **
Chlordane	0.0001		Every 3 Years **
2,4-D	0.07		Every 3 Years **
Dalapon	0.2		Every 3 Years **
Dibromochloropropane (DBCP)	0.0002		Every 3 Years **
Di(2-ethylhexyl)adipate	0.4		Every 3 Years **
Di(2-ethylhexyl)phthalate	0.004		Every 3 Years **
Dinoseb	0.007		Every 3 Years **
Diquat	0.02		Every 3 Years **
Endothall	0.1		Every 3 Years **
Endrin	0.002		Every 3 Years **
Ethylene Dibromide (EDB)	0.00005		Every 3 Years **
Glyphosate	0.7		Every 3 Years **
Heptachlor	0.00001		Every 3 Years **
Heptachlor Epoxide	0.00001		Every 3 Years **
Hexachlorobenzene	0.001		Every 3 Years **
Hexachlorocyclopentadiene	0.05		Every 3 Years **
Lindane	0.0002		Every 3 Years **
Methoxychlor	0.03		Every 3 Years **
Molinate	0.02		Every 3 Years **
Oxamyl	0.05		Every 3 Years **
Pentachlorophenol	0.001		Every 3 Years **
Picloram	0.5		Every 3 Years **
Polychlorinated Biphenyls	0.0005		Every 3 Years **
Simazine	0.004	505, 507, 508.1, 525.2	Every 3 Years **
Thiobencarb	0.07		Every 3 Years **
Toxaphene	0.003		Every 3 Years **
2,3,7,8-TCDD (Dioxin)	0.00000003		Every 3 Years **
2,4,5-TP (Silvex)	0.05		Every 3 Years **
1,2,3 Trichloropropane	0.000005		4 Quarters of initial tests beginning 1/1/2018

*This frequency applies only to VOCs for which previous results have shown non detectable (ND) for 3 consecutive years of monitoring.

**This frequency applies only to SOCs for which previous results have shown non detectable (ND).

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Radiological Monitoring

1. Monitoring Requirements

Radioactivity - Section 64442	MCL**	EPA Method	Frequency
Gross Alpha	15 pCi/L		(1)
Radium-226	5 pCi/L		When GA > 5 pCi/L*
Radium-228	Radium-226 & -228		(1)
Uranium	20 pCi/L		When GA > 5 pCi/L*
Man Made Radioactivity - Section 64443			
Tritium	20000 pCi/L		Not Required
Strontium	8 pCi/L		Not Required
Gross Beta	50 pCi/L		Not Required

(1) Gross alpha and Radium-228 frequency already established by Department based on either grandfathered data from Jan. 1, 2001 to Dec. 31, 2004, or the initial monitoring conducted for a new source. Please contact YCEH if a frequency is needed

***** If the gross alpha (GA) activity is more than 5 pCi/L, analysis for uranium may be used to obtain the radium-226 activity (Gross alpha - Uranium = Radium-226). If Gross alpha - Uranium > 0, call the DWP for further instructions. If Gross alpha - Uranium < 0, report only the Gross alpha and Uranium results. If the GA activity is more than 15 pCi/L, analysis for uranium must be performed.

****** Contact the Yolo County Environmental Health if the MCL is exceeded.

2. Subsequent monitoring frequencies based on the initial monitoring.

Gross Alpha	Monitoring Frequency
Less than 3 pCi/L	1 sample every 9 years
≥ 3 and ≤ 7.5 pCi/L	1 sample every 6 years
> 7.5 and ≤ 15 pCi/L	1 sample every 3 years

Radium-228	Monitoring Frequency
Less than 1 pCi/L	1 sample every 9 years
≥ 1 and ≤ 2.5 pCi/L	1 sample every 6 years
> 2.5 and ≤ 5 pCi/L	1 sample every 3 years

Important Notes.

1. The subsequent monitoring frequencies assigned to each source by the Department will not change unless there are extenuating circumstances that would require it, such as an exceedance of an MCL.

2. A frequency is generally not assigned to radium-226 or uranium as the monitoring for these constituents is dependent on the gross alpha results.

   a) If the Gross Alpha particle activity is less than or equal to 5 pCi/L, analysis for Uranium is not required.

   b) If the Gross Alpha particle activity for any single sample is greater than 5 pCi/L, analysis for Uranium in that same sample is required. If any single sample for Uranium is greater than 20 pCi/L, monitor at least 4 quarters for Uranium.

   c) If (Gross Alpha – Uranium) average is less than 15 pCi/L, but greater than 5 pCi/L, analyze for Radium 226 and Radium 228. If (Ra-226 + Ra-228) > 5 pCi/L, monitor at least 4 quarters of Ra-226 and Ra-228.

3. The monitoring frequencies for gross alpha, radium -226, radium-228, and uranium may be different.