

WATER QUALITY (SOURCE) MONITORING SCHEDULE
 Nontransient Noncommunity System, groundwater
 UPDATED JANUARY 2018

This schedule supersedes all previous monitoring schedules.

Chemical - Title 22	MCL (mg/L)	EPA Methods	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	0.2		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 <i>if Asbestos-Cement pipe used</i>	7 MFL		Every 9 years if Aggressive Index \leq 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	N/A		Once Only
Color	N/A		Once Only
Copper	N/A		Once Only
Foaming Agents	N/A		Once Only
Iron	N/A		Once Only
Manganese	N/A		Once Only
Methyl- <i>tert</i> -butyl ether (MTBE)	N/A	502.2, 524.2	See MTBE frequency on page 2
Odor	N/A		Once Only
Silver	N/A		Once Only
Thiobencarb	N/A		Once Only
Turbidity	N/A		Once Only
Zinc	N/A		Once Only
General Minerals - Section 64449			
Bicarbonate	N/A		Once Only
Carbonate	N/A		Once Only
Hydroxide Alkalinity	N/A		Once Only
Calcium	N/A		Once Only
Magnesium	N/A		Once Only
Sodium	N/A		Once Only
Hardness	N/A		Once Only
pH	N/A		Once Only
Secondary Standards - Table 64449-B			
TDS	N/A		Once Only
Specific Conductance	N/A		Once Only
Chloride	N/A		Once Only
Sulfate	N/A		Once Only

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 \geq 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 \geq 0.5 mg/L. This may be reduced to annually, if all 4 quarterly results are $<$ MCL.

WATER QUALITY (SOURCE) MONITORING SCHEDULE
 Nontransient Noncommunity System, groundwater
 UPDATED JANUARY 2018

This schedule supersedes all previous monitoring schedules.

Chemical - Title 22	MCL (mg/L)	EPA Methods	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	0.7	502.2, 524.2	Every 3 years *
Methyl- <i>tert</i> -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	0.07	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	505, 507, 508.1, 525.2	Every 3 Years **
Atrazine	0.003	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	504.1, 551.1	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	504.1, 551.1	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	0.04		Every 3 Years **
Molinate	0.02		Every 3 Years **
Oxamyl	0.2		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 SOC's for which previous results have shown non detectable (ND).

WATER QUALITY (SOURCE) MONITORING SCHEDULE
 Nontransient Noncommunity System, groundwater
 UPDATED JANUARY 2018
 This schedule supersedes all previous monitoring schedules.

Radiological Monitoring

1. Monitoring Requirements

Radioactivity - Section 64442	MCL**	EPA Method	Frequency
Gross Alpha	15 pCi/L		(1)
Uranium	20 pCi/L		When GA > 5 pCi/L*
Total Radium (2)	5 pCi/L	903.0	When GA - UR > 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 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

(2) Monitoring for Radium-226 and Radium-228 (Combinded MCL = 5 pCi/L) will be accepted in lieu of total radium by YCEH

* 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 YCEH 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 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.
OR If (Gross Alpha – Uranium) average is less than 15 pCi/L, but greater than 5 pCi/L, analyze for Total Radium. If Total Radium (Ra-223, Ra-224 & Ra-226) > 5 pCi/L, monitor at least 4 quarters of Total Radium.
3. The monitoring frequencies for gross alpha, radium -226, radium-228, and uranium may be different.