

OHIO EPA DIVISION OF DRINKING AND GROUND WATERS
PARAMETERS REQUIRED FOR COMPLETE WELL ANALYSIS

PARAMETER	MCL / Standard	Reporting Limit
INORGANIC CHEMICALS (IOCs)		
Alkalinity Total, as CaCO ₃	No standard	None
Antimony Total, Sb	0.006 mg/l (6 ug/l)	4.0 ug/l
Arsenic Total, As	0.010 mg/l (10 ug/l)	3.0 ug/l
Asbestos (If required)*	7 MFL	0.2 MFL
Barium Total, Ba	2 mg/l (2000 ug/l)	300.0 ug/l
Beryllium Total, Be	0.004 mg/l (4 ug/l)	1.0 ug/l
Cadmium Total, Cd	0.005 mg/l (5 ug/l)	1.0 ug/l
Calcium Total, Ca	No standard	None
Chloride, Cl	250 mg/l SMCL	None
Chromium Total, Cr	0.1 mg/l (100 ug/l)	10.0 ug/l
Copper Total, Cu	1.3 mg/l (1,300 ug/l) AL	50.0 ug/l
Cyanide, CN	0.2 mg/l (200 ug/l)	20 ug/l
Fluoride Total, F	4.0 mg/l	0.5 ug/l
Iron Total, Fe	0.3 mg/l (300 ug/l) SMCL	None
Lead Total, Pb	0.015 mg/l (15 ug/l) AL	5.0 ug/l
Magnesium Total, Mg	No standard	None
Manganese Total, Mn	0.05 mg/l (50 ug/l) SMCL	None
Mercury Total, Hg	0.002 mg/l (2 ug/l)	0.5 ug/l
Nickel Total, Ni	No standard	20.0 ug/l
Nitrate, NO ₃ (as N)	10 mg/l	0.5 mg/l
Nitrate-Nitrite, NO ₃ -NO ₂ (as N)	10 mg/l	0.5 mg/l
Nitrite, NO ₂ (as N)	1 mg/l	0.1 mg/l
pH, Lab S.U.	7.0 - 10.5 SMCL	None
Residue, Total Filt (Diss)	500 mg/l SMCL	None
Selenium Total, Se	0.05 mg/l (50 ug/l)	5.0 ug/l
Silver Total, Ag	0.1 mg/l (100 ug/l) SMCL	None
Sodium Total, Na	No standard	None
Sulfate, SO ₄	250 mg/l SMCL	None
Thallium Total, Tl	0.002 mg/l (2 ug/l)	1.5 ug/l
Zinc Total, Zn	5 mg/l SMCL	None
RADIOLOGICALS (Rads)		
Gross Alpha	15 pCi/l MCL / 5 pCi/l AL	3 pCi/l
Radium 228	5 pCi/l (sum with 226 result)	1 pCi/l
Radium 226**	5 pCi/l (sum with 228 result)	1 pCi/l
Uranium***	30 ug/l (20 pCi/L)	1 ug/l
Gross Beta****	4 mrem/yr MCL / 50 pCi/l AL	4 pCi/l
VOLATILE ORGANIC CHEMICALS (VOCs)		
21 regulated	See back	0.5 ug/l
SYNTHETIC ORGANIC CHEMICALS (SOCs)		
Atrazine	0.003 mg/l (3 ug/l)	0.3 ug/l
Alachlor	0.002 mg/l (2 ug/l)	0.2 ug/l
Simazine	0.004 mg/l (4 ug/l)	0.35 ug/l
BACTERIA STANDARDS		
Total Coliform (2 samples collected at least 24 hrs.)	1 Positive = Standard Exceeded	

NOTE: All samples must be analyzed by a certified laboratory. All applicable sample results must be received and approved by the Ohio EPA before the well can be considered for use as a public water source. Additional analyses beyond those listed may be required.

- * Asbestos is required at the discretion of the district office staff.
- ** Radium 226 required if the gross alpha result or gross alpha and radium 228 results exceed(s) 5 pCi/l action level.
- *** Uranium required if the gross alpha result exceeds 15 pCi/l.
- **** Analysis of all major radioactive constituents required if gross beta result exceeds 50 pCi/l.

VOLATILE ORGANIC CHEMICALS (VOCs)

Regulated-(21)	MCL
Benzene	0.005 mg/l (5 ug/l)
Carbon Tetrachloride	0.005 mg/l (5 ug/l)
o-Dichlorobenzene	0.6 mg/l (600 ug/l)
p-Dichlorobenzene	0.075 mg/l (75 ug/l)
1,2-Dichloroethane	0.005 mg/l (5.0 ug/l)
1,1-Dichloroethylene	0.007 mg/l (7 ug/l)
cis-1,2-Dichloroethylene	0.07 mg/l (70 ug/l)
trans-1,2-Dichloroethylene	0.1 mg/l (100 ug/l)
Dichloromethane	0.005 mg/l (5 ug/l)
1,2-Dichloropropane	0.005 mg/l (5 ug/l)
Ethylbenzene	0.7 mg/l (700 ug/l)
Monochlorobenzene	0.1 mg/l (100 ug/l)
Styrene	0.1 mg/l (100 ug/l)
Tetrachloroethylene	0.005 mg/l (5 ug/l)
Toluene	1 mg/l (1,000 ug/l)
1,2,4-Trichlorobenzene	0.07 mg/l (70 ug/l)
1,1,1-Trichloroethane	0.2 mg/l (200 ug/l)
1,1,2-Trichloroethane	0.005 mg/l (5 ug/l)
Trichloroethylene	0.005 mg/l (5 ug/l)
Vinyl Chloride	0.002 mg/l (2 ug/l)
Xylenes (total)	10 mg/l (10,000 ug/l)

ABBREVIATIONS:

- MCL - Maximum Contaminant Level
- MCLG - Maximum Contaminant Level Goal
- mg/l - milligrams per liter (parts per million - ppm) = 1,000 ug/l
- ug/l - micrograms per liter (parts per billion - ppb) = .001 mg/l
- MFL -million fibers per liter
- pCi/l - picocuries per liter
- SMCL - Secondary Maximum Contaminant Level; Advisory limit only
- AL - Action Level; requires action to be taken
- mrem/yr - millirem per year