

## Wet Chemistry Analysis

Test For	Test Method	Sample Minimum (water or soil)	Container (water or soil)	Preservative	Holding Time	Holding Temp
Alkalinity	SMEWW 2320 B	100 ml (25 g)	250 ml poly or 4 oz. glass jar	NONE	14 days	0 - 6°C
Ammonia	SMEWW 4500-NH3 B,C	50 ml (5 g)	250 ml poly or 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2	28 days	0 - 6°C
* BOD	SMEWW 5210 A-B	1 L	1 L poly	NONE	48 hr	0 - 6°C
Bicarbonate	SMEWW 2320 B	100 ml	250 ml poly	NONE	14 days	0 - 6°C
Carbonate	SMEWW 2320 B	100 ml (25 g)	250 ml poly or 8 oz. glass jar	NONE	14 days	0 - 6°C
Chloride	SMEWW 4500 Cl- C,D	50 ml (50 g)	250 ml poly or 4 oz. glass jar	NONE	28 days	0 - 6°C
* Chlorine, Residual	SMEWW 4500 Cl- G	100 ml (25 g)	125 ml poly or 4 oz. glass jar	NONE	15 minutes	0 - 6°C
COD	EPA 410.4, HACH 8000	25 ml (5 g)	125 ml poly or 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2	28 days	0 - 6°C
* Coliform (Total + E. Coli) by Colisure	SMEWW 9223, Colisure	100 ml	100 ml poly-bacti	Sodium Thiosulfate	6 hrs**/ 24hrs**	0 - 6°C
Conductivity (E.C.)	EPA 120.1, SMEWW 2510 B	25 ml	125 ml poly	NONE	28 days	0 - 6°C
Cyanide (liquid)	EPA 9014, SMEWW 4500 CN C	250 ml	500 ml poly	NaOH to pH > 12	14 days	0 - 6°C
Cyanide (solid)	EPA 9014	25 g	4 oz. glass jar	NONE	14 days	0 - 6°C
Flashpoint	EPA 1010, 1030	100 ml (100 g)	250 ml poly or 4 oz. glass jar	NONE	none	0 - 6°C
Fluoride	EPA 9214, SMEWW 4500 F C	100 ml (25 g)	250 ml poly or 4 oz. glass jar	NONE	28 days	0 - 6°C
* Hexavalent Chrome (Cr+6)	EPA 7196 A, SMEWW 3500 Cr D	50 ml (10 g)	250 ml poly or 4 oz. glass jar	NONE	24 hr	0 - 6°C
* MBAS (Surfactants)	SMEWW 5540 C	200 ml (10 g)	250 ml poly or 4 oz. glass jar	NONE	48 hr	0 - 6°C
* Nitrate	SMEWW 4500 NO3 E	100 ml (100 g)	250 ml poly or 4 oz. glass jar	NONE	48 hr	0 - 6°C
* Nitrite	SMEWW 4500 NO2 B	100 ml (100 g)	250 ml poly or 4 oz. glass jar	NONE	48 hr	0 - 6°C
Nitrogen; TKN	SMEWW 4500 N C	50 ml (10 g)	250 ml poly or 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2	28 days	0 - 6°C
* pH	EPA 9045 C, SMEWW 4500 H+ B, EPA 150.1	25 ml (10 g)	250 ml poly or 4 oz. glass jar	NONE	15 minutes	0 - 6°C
Phenols, Total	EPA 420.1, 9065	250 ml (50 g)	250 ml amber or 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2	28 days	0 - 6°C
* Phosphate, Ortho	SMEWW 4500 P E, HACH 8048	50 ml (10 g)	125 ml poly or 4 oz. glass jar	NONE	15 minutes	0 - 6°C

Phosphorus, Total	SMEWW 4500 P E, HACH8190, EPA 200.7	50 ml (5 g)	125 ml poly or 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2	28 days	0 - 6°C
* Solids, Settleable (SS)	SMEWW 2540 F	1 liter	1 L poly	NONE	48 hr	0 - 6°C
Solids, Total Dissolved (TDS)	SMEWW 2540 C	100 ml	250 ml poly	NONE	7 days	0 - 6°C
Solids, Total Suspended (TSS)	SMEWW 2540 D	100 ml	250 ml poly	NONE	7 days	0 - 6°C
Solids, Total	SMEWW 2540 B	100 ml	250 ml poly	NONE	7 days	0 - 6°C
Sulfate	SMEWW 4500 SO4 E	100 ml (25 g)	250 ml poly or 4 oz. glass jar	NONE	28 days	0 - 6°C
Sulfide, Total	EPA 9034, SMEWW 4500 S D	50 ml (5 g)	250 ml poly or 4 oz. glass jar	NaOH/Zn Acetate	7 days	0 - 6°C
Sulfide, Dissolved	SMEWW 4500 S D	50 ml (5 g)	250 ml poly or 4 oz. glass jar	NONE	7 days	0 - 6°C
Total Organic Carbon (TOC)	EPA 9060, SMEWW 5310 B	50 ml (10 g)	125 ml Amber or 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2	28 days	0 - 6°C
* Turbidity	SMEWW 2130 B	50 ml	250 ml poly	NONE	48 hr	0 - 6°C

\* These analyses have short holding times. Please coordinate delivery time for these analyses.

\*\* Recommended holding times for coliforms are 6 hours. Between 6 - 24 hours holding results become questionable. After 24 hours holding, results are considered unacceptable.

### Organic Analysis

Test For	Test Method(s)	Sample Minimum (water or soil)	Container (water or soil)	Preservative	Holding Time (water^; soil)	Holding Temp
Oil & Grease	EPA 1664A	1 L	1 L amber	HCl to pH < 2	28 days	0 - 6°C
Oil & Grease	EPA 413.2	500 ml; 50 g	500 ml amber; 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2 for liquids	28 days	0 - 6°C
TRPH	EPA 418.1	500 ml; 5 g	500 ml amber; 4 oz. glass jar	H <sub>2</sub> SO <sub>4</sub> to pH < 2 for liquids	28 days	0 - 6°C
Purgeable Halocarbons (Chlorinated Solvents)	EPA 601, EPA 8021 B	40 ml; 40 g	(2) 40 ml VOA Vial; 4 oz. glass jar	HCl to pH < 2 for liquids	14 days	0 - 6°C

Aromatic Volatile Organics	EPA 602, EPA 8021 B	40 ml; 40 g	(2) 40 ml VOA Vial; 4 oz. glass jar	HCl to pH < 2 for liquids	14 days	0 - 6°C
PCBs	EPA 608, EPA 8081, EPA 8082	1 L; 30 g	1 Liter Amber; 8 oz. glass jar	NONE	7/40; 14 days	0 - 6°C
Total Petroleum Hydrocarbons (TPH) - Gas	EPA 8015 B, DOHS LUFT Method (liquid), ASTM D2887 (solid)	40 ml; 10 g	(2) 40 ml VOA Vials; 4 oz. glass jar	HCl to pH < 2 for liquids	14 days	0 - 6°C
Total Petroleum Hydrocarbons (TPH) - Diesel	EPA 8015 B, DOHS LUFT Method (liquid), ASTM D2887 (solid)	40 ml; 10 g	125 ml Amber; 4 oz. glass jar	HCl to pH < 2 for liquids	14 days	0 - 6°C

### Metals Analysis

Test for	Tet Method(s)	Sample Minimum (water or soil)	Container (water or soil)	Preservative	Holding Time	Holding Temp
Hexavalent Chrome (Cr+6)	EPA 7196 A, SMEWW 3500 Cr D	50 ml; 10 g	250 ml poly; 8 oz. glass jar	NONE	28 days (with preservation)	0 - 6°C
Mercury	EPA 245.1, EPA 7471, EPA 7470	500 ml; 100 g	500 ml poly; 4 oz. glass jar	HNO <sub>3</sub> to pH < 2	28 days	0 - 6°C
Metals*	EPA 200.7	500 ml; 100 g	500 ml poly; 8 oz. glass jar	HNO <sub>3</sub> to pH < 2	6 mons	0 - 6°C
STLC metals	Title 22-WET	500 ml; 200 g	500 ml poly; 8 oz. glass jar	NONE	Method Dependent	0 - 6°C
SPLP metals	EPA 1312	500 ml; 200 g	500 ml poly; 8 oz. glass jar	NONE	Method Dependent	0 - 6°C
TCLP metals	EPA 1311	500 ml; 200 g	500 ml poly; 8 oz. glass jar	NONE	Method Dependent	0 - 6°C

\* Including but not limited to: Al, Ag, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mn, Mg, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, Ti, V, Zn  
 ^ 7/40, 14/40 refers to hold time before extract/hold time after extract