

General Wet Chemistry Analyses

ANALYSIS/TEST	SPECIFIC METHOD	CONTAINER Water; Soil	PRESERVATIVE	TEMPERATURE	MINIMUM SAMPLE REQUIRED Water; Soil	HOLDING TIME
Alkalinity	SMEWW 2320 B	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 25 g	14 days
Ammonia	SMEWW 4500-NH3 B,C	250 ml poly; 4 oz. glass jar	H ₂ SO ₄ to pH < 2	0 - 6°C	50 ml; 5 g	28 days
* BOD	SMEWW 5210 A-B	1 L poly	UNPRESERVED	0 - 6°C	1 L	48 hr
Bicarbonate	SMEWW 2320 B	250 ml poly	UNPRESERVED	0 - 6°C	100 ml	14 days
Carbonate	SMEWW 2320 B	250 ml poly; 8 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 25 g	14 days
Chloride	SMEWW 4500 Cl- C, D	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	50 ml; 50 g	28 days
* Chlorine, Residual	SMEWW 4500 Cl- G	125 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 25 g	15 minutes
COD	EPA 410.4, HACH 8000	125 ml poly; 4 oz. glass jar	H ₂ SO ₄ to pH < 2	0 - 6°C	25 ml; 5 g	28 days
* Coliform (Total+Fecal)	SMEWW 9221 B, E	100 ml poly-bacti	Sodium Thiosulfate	0 - 6°C	100 ml	6 hrs**/24hrs**
* Coliform (Total+E. Coli) by Colilert	SMEWW 9223, Colilert®	100 ml poly-bacti	Sodium Thiosulfate	0 - 6°C	100 ml	6 hrs**/24hrs**
Conductivity (E.C.)	EPA 120.1, SMEWW 2510 B	125 ml poly	UNPRESERVED	0 - 6°C	25 ml	28 days
Cyanide (liquid)	EPA 9014, SMEWW 4500 CN C	500 ml poly	NaOH to pH > 12	0 - 6°C	250 ml	14 days
Cyanide (solid)	EPA 9014	4 oz. glass jar	UNPRESERVED	0 - 6°C	25 g	14 days
* Fecal Streptococcus & Enterococcus Groups	SMEWW 9230, Enterolert®	100 ml poly	Sodium Thiosulfate	0 - 6°C	100 ml	6 hrs**/24hrs**
Flashpoint	EPA 1010, 1030	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 100 g	none
Fluoride	EPA 9214, SMEWW 4500 F C	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 25 g	28 days
* Heterotrophic Plate Count	SMEWW 9215 B	100 ml poly	Sodium Thiosulfate	0 - 6°C	100 ml	6 hrs**/24hrs**
* Hexavalent Chrome (Cr+6)	EPA 3060, EPA 7196 A, SMEWW 3500 Cr D	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	50 ml; 10 g	24 hr
* MBAS (Surfactants)	SMEWW 5540 C	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	200 ml; 10 g	48 hr
* Nitrate	SMEWW 4500 NO3 E	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 100 g	48 hr
* Nitrite	SMEWW 4500 NO2 B	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 100 g	48 hr
Nitrogen; TKN	SMEWW 4500 N C	250 ml poly; 4 oz. glass jar	H ₂ SO ₄ to pH < 2	0 - 6°C	50 ml; 10 g	28 days
* pH	EPA 9045 C, SMEWW 4500 H+ B	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	25 ml; 10 g	15 minutes
Phenols, Total	EPA 420.1, 9065	250 ml Amber; 4 oz. glass jar	H ₂ SO ₄ to pH < 2	0 - 6°C	250 ml; 50 g	28 days
* Phosphate, Ortho	SMEWW 4500 P E, HACH 8048	125 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	50 ml; 10 g	15 minutes
Phosphorus, Total	SMEWW 4500 P E, HACH8190	125 ml poly; 4 oz. glass jar	H ₂ SO ₄ to pH < 2	0 - 6°C	50 ml; 5 g	28 days
* Solids, Settleable (SS)	SMEWW 2540 F	1 L poly	UNPRESERVED	0 - 6°C	1 liter	48 hr
Solids, Total Dissolved (TDS)	SMEWW 2540 C	250 ml poly	UNPRESERVED	0 - 6°C	100 ml	7 days
Solids, Total Suspended (TSS)	SMEWW 2540 D	250 ml poly	UNPRESERVED	0 - 6°C	100 ml	7 days
Solids, Total	SMEWW 2540 B	250 ml poly	UNPRESERVED	0 - 6°C	100 ml	7 days
Sulfate	SMEWW 4500 SO4 E	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	100 ml; 25 g	28 days
Sulfide, Total	EPA 9034, SMEWW 4500 S D	250 ml poly; 4 oz. glass jar	NaOH/Zn Acetate	0 - 6°C	50 ml; 5 g	7 days
Sulfide, Dissolved	SMEWW 4500 S D	250 ml poly; 4 oz. glass jar	UNPRESERVED	0 - 6°C	50 ml; 5 g	7 days
Total Organic Carbon (TOC)	EPA 9060, SMEWW 5310 B	125 ml Amber; 4 oz. glass jar	H ₂ SO ₄ to pH < 2	0 - 6°C	50 ml; 10 g	28 days
* Turbidity	SMEWW 2130 B	250 ml poly	UNPRESERVED	0 - 6°C	50 ml	48 hr
Total Volatile Solids (TVS or VSS)	SMEWW 2540 E	250 ml poly	UNPRESERVED	0 - 6°C	100 ml	28 days

g-gram ml-milliliter

* 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.

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Organic Analyses

ANALYSIS/TEST	SPECIFIC METHOD(S)	CONTAINER Water; Soil	PRESERVATIVE	TEMPERATURE	MINIMUM SAMPLE REQUIRED Water; Soil	HOLDING TIME Water*; Soil
Oil & Grease	EPA 1664A	1 L amber	HCl to pH < 2	0 - 6°C	1 L	28 days
Oil & Grease	EPA 413.2	500 ml amber; 4 oz. glass jar	H ₂ SO ₄ to pH < 2 for liquids	0 - 6°C	500 ml; 50 g	28 days
TRPH	EPA 418.1	500 ml amber; 4 oz. glass jar	H ₂ SO ₄ to pH < 2 for liquids	0 - 6°C	500 ml; 5 g	28 days
Purgeable Halocarbons (Chlorinated Solvents)	EPA 601, EPA 8021 B	(2) 40 ml VOA Vial; 4 oz. glass jar	HCL to pH < 2 for liquids	0 - 6°C	40 ml; 40 g	14 days
Aromatic Volatile Organics	EPA 602, EPA 8021 B	(2) 40 ml VOA Vial; 4 oz. glass jar	HCL to pH < 2 for liquids	0 - 6°C	40 ml; 40 g	14 days
Organochlorine Pesticides and PCBs	EPA 608, EPA 8081, EPA 8082	1 Liter Amber; 8 oz. glass jar	UNPRESERVED	0 - 6°C	1 L; 30 g	7/40; 14 days
Organophosphorous Pesticides	EPA 8141	1 Liter Amber; 8 oz. glass jar	UNPRESERVED	0 - 6°C	1 L; 40 g	7/40; 14 days
Volatile Organic Compounds (VOCs)	EPA 624, EPA 8260 B	(2) 40 ml VOA Vials; 4 oz. glass jar	HCL to pH < 2 for liquids	0 - 6°C	40 ml; 40 g	14 days
Semi Volatile Organics (SVOCs)	EPA 625, EPA 8270 C	1 Liter Amber; 8 oz. glass jar	UNPRESERVED	0 - 6°C	1 L; 40 g	7/40; 14/40 days
Organotin Compounds - Tributyltins (TBT)	GCFPD	1 Liter Amber; 8 oz. glass jar	UNPRESERVED	0 - 6°C	1 L; 40 g	7/40; 14/40 days
Total Petroleum Hydrocarbons (TPH) - Gas	EPA 8015 B, DOHS LUFT Method (liquid), ASTM D2887 (solid)	(2) 40 ml VOA Vials; 4 oz. glass jar	HCL to pH < 2 for liquids	0 - 6°C	40 ml; 10 g	14 days
Total Petroleum Hydrocarbons (TPH) - Diesel	EPA 8015 B, DOHS LUFT Method (liquid), ASTM D2887 (solid)	125 ml Amber; 4 oz. glass jar	HCl to pH < 2 for liquids	0 - 6°C	40 ml; 10 g	14 days

Metals Analyses

ANALYSIS/TEST	SPECIFIC METHOD(S)	CONTAINER Water; Soil	PRESERVATIVE	TEMPERATURE	MINIMUM SAMPLE REQUIRED Water; Soil	HOLDING TIME
Hexavalent Chrome (Cr+6)	EPA 3060, EPA 7196 A, SMEWW 3500 Cr D	250 ml poly; 8 oz. glass jar	UNPRESERVED	0 - 6°C	50 ml; 10 g	28 days (with preservation)
Mercury	EPA 245.1, EPA 7471, EPA 7470	500 ml poly; 4 oz. glass jar	HNO ₃ to pH < 2	0 - 6°C	500 ml; 100 g	28 days
Metals*	EPA 6010, EPA 6020, EPA 3050, EPA 200.7, EPA 200.8	500 ml poly; 8 oz. glass jar	HNO ₃ to pH < 2	0 - 6°C	500 ml; 100 g	6 mos
STLC metals	Title 22-WET	500 ml poly; 8 oz. glass jar	UNPRESERVED	0 - 6°C	500 ml; 200 g	Method Dependant
SPLP metals	EPA 1312	500 ml poly; 8 oz. glass jar	UNPRESERVED	0 - 6°C	500 ml; 200 g	Method Dependant
TCLP metals	EPA 1311	500 ml poly; 8 oz. glass jar	UNPRESERVED	0 - 6°C	500 ml; 200 g	Method Dependant

* 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, Ti, Tl, V, Zn

^ 7/40, 14/40 refers to hold time before extract/hold time after extract