

GENERAL CHEMISTRY
STANDARD REPORTING LIMITS



Curtis & Tompkins, Ltd.

Parameter	Method	Water RL	Soil RL
Acidity	SM 2310B	1.0 mg/L	--
Alkalinity (as CaCO ₃)	SM 2320B	1.0 mg/L	2 mg/Kg
Ammonia Nitrogen	SM 4500NH3-D	0.1 mg/L	10 mg/Kg
Bicarbonate Alkalinity	SM 2320B	1.0 mg/L	2 mg/Kg
Bioassay, %survival	NPDES	Pass / Fail	--
Biochemical Oxygen Demand (BOD)	SM 5210B	5.0 mg/L	--
BOD (Biochemical Oxygen Demand)	SM 5210B	5.0 mg/L	--
Carbon, Total Organic	SM 5310C	1.0 mg/L	--
	Walkley-Black	--	0.01%
Carbon, Total Inorganic	SM 5310C	1.0 mg/L	--
Carbonate Alkalinity	SM 2320B	1.0 mg/L	2 mg/Kg
Cation Exchange Capacity	EPA 9081	--	5 meq/100g
Chemical Oxygen Demand (COD)	SM 5220D	10 mg/L	--
Chloride	EPA 300.0	0.2 mg/L	2 mg/Kg
Chlorine, Residual	SM 4500Cl-G	0.05 mg/L	--
COD (Chemical Oxygen Demand)	SM 5220D	10 mg/L	--
Coliform, Fecal		present	--
Color	SM 2120B	APHA scale	--
Conductivity	SM 2510B	1 umhos/cm@25C	--
Corrosivity to Steel (NACE)	EPA 1110	6.35mm/yr	6.35 mm/yr
Chromium, Hexavalent	EPA 7196A	0.01 mg/L	0.05 mg/Kg
	SM 3500Cr-D	0.01 mg/L	--
	EPA 7199	0.5 µg/L	--
Cyanide	SM 4500Cn-E	0.01 mg/L	1 mg/Kg
	EPA 9010B / 9014	0.01 mg/L	1 mg/Kg
Cyanide, Amenable	SM 4500Cn-E	0.01 mg/L	--
	EPA 9010B / 9014	0.01 mg/L	1 mg/Kg
Cyanide, Reactive	SW846 Ch.7	10 mg/Kg	10 mg/Kg
Density	ASTM or AOCs	Varies	--
Dissolved Oxygen	SM 4500O-G	1.0 mg/L	--
Ferrous Iron (Fe ²⁺)	SM 3500Fe-D	0.2 mg/L	--
Ferric Iron (Fe ³⁺)	SM 3500Fe-D	0.2 mg/L	--
Flash Point	EPA 1010	ambient deg.F	--
Fluoride	EPA 300.0	0.1 mg/L	1.0 mg/Kg
Free Liquids (Paint Filter Test)	EPA 9095	yes/no	yes/no
Halogens, Total Organic	EPA 9020	50 µg/L	10 mg/Kg
Hardness, as CaCO ₃	EPA 130.2	3.3 mg/L	--
Hexavalent Chromium	EPA 7196A	0.01 mg/L	0.05 mg/Kg
	SM 3500Cr-D	0.01 mg/L	--
	EPA 7199	0.5 µg/L	--
Ignitability	SW846 Ch.7	--	Yes / No
Iron, Ferrous (Fe ²⁺)	SM 3500Fe-D	0.2 mg/L	--
Iron, Ferric (Fe ³⁺)	SM 3500Fe-D	0.2 mg/L	--
MBAS (Surfactants)	SM 5540C	0.2 mg/L	--
Moisture	ASTM D2216/CLP	--	%
Nitrate Nitrogen	EPA 300.0	0.05 mg/L	0.5 mg/Kg
Nitrite Nitrogen	EPA 300.0	0.05 mg/L	0.5 mg/Kg
Nitrate/Nitrite Nitrogen	EPA 300.0	0.1 mg/L	1 mg/Kg
Nitrogen, Ammonia	SM 4500NH3-D	0.1 mg/L	10 mg/Kg
Nitrogen, Total Kjeldahl (TKN)	SM 4500NH3-C	1.0 mg/L	100 mg/Kg
Oil & Grease, Petroleum (HEM-SG)	EPA 1664A	5.0 mg/L	--
Oil & Grease, Total (HEM.)	EPA 1664A	5.0 mg/L	--
Organic Lead	CA LUFT	100 µg/L	0.5 mg/Kg
Organic Carbon, Total	SM 5310C	1.0 mg/L	--
	Walkley-Black	--	0.01%
Ortho-Phosphate Phosphorus	SM 4500P-E	0.03 mg/L	2 mg/Kg
Oxygen Demand, Biochemical	SM 5210B	5.0 mg/L	--
Oxygen Demand, Chemical	SM 5220D	10 mg/L	--

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Oxygen, Dissolved	SM 4500O-G	1.0 mg/L	--
Paint Filter Test	EPA 9095	yes/no	yes/no
Perchlorate	EPA 314.0	4.0 µg/L	--
pH	EPA 9040B / SM 4500H+B	0.1 SU	--
	EPA 9045C	--	0.1 SU
Phenolic Compounds	EPA 420.1	0.05 mg/L	--
Phosphate, ortho-	SM 4500P-E	0.03 mg/L	2 mg/Kg
Phosphate, Total	SM 4500P-E	0.03 mg/L	0.3 mg/Kg
Reactive Cyanide	SW846 Ch.7	10 mg/Kg	10 mg/Kg
Reactive Sulfide	SW846 Ch.7	10 mg/Kg	10 mg/Kg
Residual Chlorine	SM 4500Cl-G	0.05 mg/L	--
Resistivity	SM 2510B	1 umhos/cm@25C	--
Salinity	SM 2520B	0.01 units	--
Silica	SM 4500SiO ₂ -C	1.0 mg/L	--
Solids, Settleable	SM 2540F	0.1 mL/L	--
Solids, Total Dissolved	SM 2540C	10 mg/L	--
Solids, Total Suspended	SM 2540D	5.0 mg/L	--
Solids, Total Volatile	SM 2540E	0.1%	0.1%
Specific Gravity	ASTM or AOCs	varies	--
Sulfate	EPA 300.0	0.5 mg/L	5 mg/Kg
Sulfide	SM 4500S ² -D	0.04 mg/L	--
Sulfide, Dissolved	SM 4500S ² -D	0.04 mg/L	--
Sulfide, Reactive	SW846 Ch.7	10 mg/Kg	10 mg/Kg
Sulfite	SM 4500SO ₃ -B	1.0 mg/L	--
Surfactants (MBAS)	SM 5540C	0.1 mg/L	--
Total Dissolved Solids (TDS)	SM 2540C	10 mg/L	--
Total Inorganic Carbon	SM 5310C	1.0 mg/L	--
Total Kjeldahl Nitrogen (TKN)	SM 4500NH ₃ -C	1.0 mg/L	100 mg/Kg
Total Organic Carbon (TOC)	SM 5310C	1.0 mg/L	--
	Walkley-Black	--	0.01%
Total Organic Halogens (TOX)	EPA 9020B	50 µg/L	10 mg/Kg
Total Suspended Solids (TSS)	SM 2540D	5.0 mg/L	--
Total Volatile Solids	SM 2540E	0.1%	0.1%
Tributyl Tin ("Organo-Tin")	GC/FPD	4 ng/L	1 ug/Kg
Turbidity	SM 2130B	0.02 NTU	--
Viscosity	ASTM methods	varies	--
General Minerals			
Alkalinity (as CaCO ₃)	SM 2320B	1.0 mg/L	2 mg/Kg
Chloride	EPA 300.0	0.2 mg/L	2 mg/Kg
Sulfate	EPA 300.0	0.5 mg/L	5 mg/Kg
Conductivity	SM 2510B	1 umhos/cm@25C	--
pH	EPA 9040B / SM 4500H+B	0.1 SU	0.1 SU
Total Dissolved Solids (TDS)	SM 2540C	10 mg/L	--
Calcium	EPA 200.7 or 6010B	0.5 mg/L	25 mg/Kg
Iron	EPA 200.7 or 6010B	0.1 mg/L	5 mg/Kg
Magnesium	EPA 200.7 or 6010B	0.5 mg/L	25 mg/Kg
Sodium	EPA 200.7 or 6010B	0.5 mg/L	25 mg/Kg
Zinc	EPA 200.7 or 6010B	0.02 mg/L	1 mg/Kg
Hardness, as CaCO ₃	EPA 130.2	3.3 mg/L	--

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Major Anions	Method	Water RL	Soil RL
Bicarbonate	SM 2320B	1.0 mg/L	2 mg/Kg
Carbonate	SM 2320B	1.0 mg/L	2 mg/Kg
Chloride	EPA 300.0	0.2 mg/L	2 mg/Kg
Sulfate	EPA 300.0	0.5 mg/L	5 mg/Kg

Major Cations	Method	Water RL	Soil RL
Calcium	EPA 200.7 or 6010B	0.5 mg/L	25 mg/Kg
Magnesium	EPA 200.7 or 6010B	0.5 mg/L	25 mg/Kg
Potassium	EPA 200.7 or 6010B	0.5 mg/L	25 mg/Kg
Sodium	EPA 200.7 or 6010B	0.5 mg/L	25 mg/Kg

RCI Reactivity, Corrosivity & Ignitability	Method	Water RL	Soil RL
Reactive Cyanide	SW846 Ch.7	10 mg/Kg	10 mg/Kg
Reactive Sulfide	SW846 Ch.7	10 mg/Kg	10 mg/Kg
pH	EPA 9040B / 9045C	0.1 SU	0.1 SU
Ignitability	SW846 Ch.7	--	Yes / No

Ion Chromatography	Method	Water RL	Soil RL
Bromide	EPA 300.0	0.2 mg/L	2 mg/Kg
Chloride	EPA 300.0	0.2 mg/L	2 mg/Kg
Fluoride	EPA 300.0	0.1 mg/L	1 mg/Kg
Nitrate-Nitrogen	EPA 300.0	0.05 mg/L	0.5 mg/Kg
Nitrite Nitrogen	EPA 300.0	0.05 mg/L	0.5 mg/Kg
Sulfate	EPA 300.0	0.5 mg/L	5 mg/Kg
Hexavalent Chromium	EPA 7199	0.0005 mg/L	Not applicable
Perchlorate	EPA 314.0	0.004 mg/L	Not applicable