

Aquatech Envirosience Laboratories Inc . Tel (250) 217-2977

Test List for Organics & Inorganics and Other Analyses

Analysis	Method	Matrix	MRL	Units	Bottle Type	Sample Size	Preservative		Holding Time		Analyzed On
							Raw	Finished	Extract	Analysis	
Algae Enumeration (plankton)	SM10200	Water	1		Poly	1L	None	None		14days	Microscopy
Algae Identification	SM10900	Water	N/A		Poly	1L	None	None		14days	Microscopy
Algae Pigments		Water/soil			Amber Glass/Poly		None	None		14days	HPLC
Anion Scan: Cl, F, NO2, NO3, PO4, SO4	EPA 300	Water	2-100	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Bromide	EPA 300.0	Water	2	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Bromate-Low level	EPA 300.1B	Water	2	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Calcium	EPA 6010	Water	50	mg/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Carbon, Total (TC)	EPA 9060 Mod.	Water	0.5	mg/L	Glass	50ml	None	None	---	7days	Carbon Analyzer
Cation/Anion Balance Calculation	N/A	Water		ug/L							
Cation Scan (Ca, Mg, K, Na)	EPA 6010	Water	50-100	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Chloride, Chlorite	EPA 300.0A, EPA 300.0B	Water	100	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Conductivity/Resistivity	EPA 9050, EPA 120.1, SM 2510 A/B	Water	4	umho/ml	Poly	125 ml	None	None	---	7days	Electrometric
Fluoride	EPA 300.0A	Water	2	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Iodide	EPA 300.0A	Water	2	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Dioxane, 1,4- low level	SW 8270 mod	Water	0.5	ug/L	Glass	(2)1L	None	None	---	14days	GC-MS
Dioxin, ultra low level	EPA613	Water	5	pg/L	Glass	(2)1L	None	None	6mo	30days	GC-MSMS
Dioxin, (screen)	EPA 625/8270	Water	1	ug/L	Glass	(2)1L	None	None	6mo	30days	GC-MS SIM
HAAs	EPA 6251B	Water	1-4	ug/L	Glass	(2)40ml	NH4Cl	NH4Cl	10days	14days	GC-ECD
HAA 9	EPA 6251 B	Water	1-4	ug/L	Glass	(2)40ml	NH4Cl	NH4Cl	10days	14days	GC-ECD
Magnesium	EPA 6010	Water	50	ug/L	Poly	125 ml	None	None	---	7days	Ion Chromatography
Nitrogen:											
Ammonia	EPA 350.3, EPA 350.1,	Water	10	ug/L	Poly	125 ml	H2SO4	H2SO4	---	14days	Colorimetric/Vis Spec
Nitrate-Nitrite as N	EPA 300.0, EPA 353.2	Water	2	ug/L	Poly	125 ml	None	None	---	14days	Ion Chromatography
Nitrite	EPA 300.0, EPA 353.2	Water	2	ug/L	Poly	125 ml	None	None	---	14days	Ion Chromatography
Nitrate-Nitrite as N	EPA 300.0, EPA 353.2	Water	2	ug/L	Poly	125 ml	None	None	---	14days	Ion Chromatography
Organic	SM 4500-NORG A/C	Water	2	ug/L	Poly	125 ml	None	None	---	14days	Ion Chromatography
Total Kjeldahl	EPA 351.4, EPA 351.2, SM 4500-NORG A/C	Water	2	ug/L	Poly	125 ml	None	None	---	14days	Ion Chromatography
Total Nitrogen	EPA351	Water	2	ug/L	Poly	125 ml	None	None	---	14days	Autoanalyzer
Oil and Grease	EPA 413.1,	Water	0.5	mg/L	Glass	1L	HCl	HCl	---	14days	Gravimetric
Organochlorinated Pesticides (OCP)low level	EPA 3500B, 8081Amod	Water	5	pg/L	Glass	1L	None	None	2mo	30days	GC-MSMS
Organochlorinated Pesticides (OCP)	EPA 3500B, 8081Amod	Water	1	ng/L	Glass	1L	None	None	2mo	30days	GC-ECD
Organic Carbon:											
Total (TOC), Low level	EPA 415.1, EPA 9060, SM 5310 A/C	Water	0.1	mg/L	Glass	40ml	None	None	---	7days	Carbon Analyzer
Dissolved (DOC), Low level	EPA 415.1 Mod., SM 5310 Mod.	Water	0.1	mg/L	Glass	40ml	None	None	---	7days	Carbon Analyzer
Percent Moisture	EPA 160.3, SM 2540	Soil	0.5	%	Glass	300ml	None	None	---	7days	Gravimetric
pH	EPA 150.1, 9040B, 9041A, 9045C,	Water	0.01	mg/L	Poly	125 ml	None	None	---	3days	Electrometric
PBDE, ultra low level	EPA 3500B, 8082 mod	Water	5	pg/L	Glass	1L	None	None	2mo	30days	GC-MSMS
PCBs congeners, ultra low level	EPA3500B, 8082 mod	Water	5	pg/L	Glass	1L	None	None	2mo	30days	GC-MSMS
PCBs congeners	EPA3500B, 8082 mod	Water	1	ng/L	Glass	1L	None	None	2mo	30days	GC-ECD
PPCP (acidic) & Caffeine	USGS	Water	1	ppt	Glass	(2) 1L	None	None	10days	30days	GC-MSMS
Perchlorate-low level	EPA 314	Water	1	ug/L	Poly	125ml	None	None	---	30days	Ion Chromatography
Phosphate (ortho)	EPA 300.0, SM 4110 A/B, SM 4500-P A/E	Water	1	ug/l	Poly	125 ml	None	None	---	7days	Ion Chromatography
Total Phosphorus(TP), Total Dissolved (TDP)	EPA 365.2, 365.3, EPA 365.4,	Water	1	ug/L	Poly	125 ml	None	None	---	14days	Autoanalyzer
Phenolics low level		Water	1	ug/L	Glass	125ml	H2SO4	H2SO4	---	14days	GC-MS
Polycyclic Aromatic Hydrocarbons (PAH)		Water/Soil	50	ppb	Glas	500ml	None	None	---	14days	GC-MS
Silica/Reactive	EPA 200.7, SM 3120 B	Water	1	mg/L	Poly	125ml	None	None	---	14days	Colorimetric
Sodium	EPA 6010	Water	5	ug/l	Poly	125 ml	None	None	---	14days	Ion Chromatography
Solids/Residues:											
Dissolved Solids (filterable)	EPA 160.1, SM 2540 A/C	Water	10	mg/L	Poly	500ml	None	None	---	14days	Gravimetric
Fixed and Volatile Solids	SM 2500 A/E	Water	1	mg/L	Poly	500ml	None	None	---	14days	Gravimetric
Settleable Solids	EPA 160.5, SM 2540 A/F	Water	0.1	mg/L	Poly	500ml	None	None	---	14days	Gravimetric
Suspended Solids (non-filterable)	EPA 160.2, SM 2540 A/D	Water	5	mg/L	Poly	500ml	None	None	---	14days	Gravimetric
Total Solids	EPA 160.3, SM 2540 A/B	Water	10	mg/L	Poly	500ml	None	None	---	14days	Gravimetric

Specific Conductance	EPA 120.1, SM 2510 B	Water	4	umho/ml	Poly	125ml	None	None	---	14days	Electrometric
Sulfate	EPA 300.3, 375.3	Water	100	ug/L	Poly	125 ml	None	None	---	14days	Ion Chromatography
Sulfite	EPA 377.1, SM 4500-SO3 2- A/B	Water	50	ug/l	Poly	126 ml	None	None	---	14days	Ion Chromatography
Taste and Odor(MIB/Geosmin by SPME)	SM 6040D mod	Water	2	ng/L	Amber Glass	(2) 40ml	None	None		3days w/o pres	SPME GC-MS
THMs	EPA 524 mod	Water	0.5	ug/L	Amber Glass	(2) 40ml	Na2S2O3	Na2S2O3		14days	SPME GC-MS
Total Recoverable Petroleum Hydrocarbons :											
Gravimetric with cleanup	SM 5520 BF, SM 5520 EF, EPA 1664	Water	0.5	mg/L	Glass	500ml	None	None	---	7days	Gravimetric
Gravimetric with cleanup (soil)	SM 5520 EF Mod.	Soil	1	mg/gr	Glass	300ml	None	None	---	7days	Gravimetric
Toxins (microcystine & others)	EPA	Water	1	ng/L	Glass/Poly	1L	None	None	---	14days	HPLC
VOCs - BTEX	EPA 602 mod	Water	0.3- 8	ug/L	Amber Glass	(2)40ml	HCl	None	---	14days	SPME GC-MS
VOCs- MTBE	EPA 524.2 mod	Water	0.3- 8	ug/L	Amber Glass	(2)40ml	HCl	None	---	14days	SPME GC-MS
VOCs-Halocarbons	EPA 601 mod	Water	0.3- 8	ug/L	Amber Glass	(2)40ml	HCl	None	---	14days	SPME GC-MS
VOCs full	EPA 624 mod	Water	0.3- 8	ug/L	Amber Glass	(2)40ml	HCl	None	---	14days	SPME GC-MS