DEQ WQPB Monitoring Suite Table

Parameter	Preferred Method	Alternate Method	Req. Report Limit ug/L	Holding Time Days	Bottle	Preservative
Water Sample - Common Ions, Physical Parameters, Miscellaneous						
Total Suspended Solids (TSS)	A2540 D		4000	7	1000 ml HDPE/ 500 ml HDPE	≤6°C
Total Dissolved Solids (TDS)	A2540 C		4000	7		
Volatile Suspended Solids (VSS)	A2540 E		4000	7		
Alkalinity (Bicarb., Carb.)	A2320 B	EPA 310.2	1000	14		
Sulfate	EPA 300.0	A4110 B	50	28		
Chloride	EPA 300.0	A4110 B	50	28		
Bromide	EPA 300.0	A4110 B	50	28		
Fluoride	EPA 300.0	A4110 B/A4500-F-B	50	28		
E. Coli	A9223 B	EPA 160.4	1 MPN/100 ml	6 hrs	100 ml HDPE	≤10°C
Biochemical Oxygen Demand (BOD)	A5210 B		2000	2	1000 ml HDPE	≤6°C
Carbonaceous Biochemical Oxygen Demand (CBOD)	A5210 B	EPA 405.1		2	1000 ml HDPE	≤6°C
Dissolved Organic Carbon (DOC)	A5310 B		500	28	125ml Glass	Filt. 0.45 um, H_2SO_4, ≤6°C
Total Organic Carbon (TOC)	A5310 C		500	28	125ml Glass	H_2SO_4, ≤6°C
Sulfide	A4500-S2 D		1000	7	250 ml HDPE	Zinc Acetate + NaOH to pH >9, ≤6°C
Water Sample - Nutrients						
Total Persulfate Nitrogen (TPN)	A4500-N C	A4500-N B	40	28	250ml HDPE	≤6°C (28d HT), Freeze (45d HT)
Dissolved Orthophosphate as P	EPA 365.1	A4500-P F	1	2	250ml HDPE	Filt. 0.45 um, ≤6°C
Total Phosphorus as P	EPA 365.1	A4500-P F	3	28	250 ml HDPE	H_2SO_4, ≤6°C or Freeze
Nitrate-Nitrite as N	EPA 353.2	A4500-NO3 F	10			
Total Ammonia as N	EPA 350.1	A4500-NH3 B,C,D,E,or G	50			
Water Sample - Other						
Methane	SW8015 Mod		0.2	14	2-40 mL VOA vials	4 Drops H_2SO_4
Polychlorinated Biphenyls (PCB)	EPA 608		0.08	7	1000 ml Glass	≤6°C
Water Sample - Dissolved Metals (0.45 um filtered)						
Aluminum	EPA 200.7	EPA 200.8	9	180	250 ml HDPE	Filt 0.45 um, HNO_3
Water Sample - Total Recoverable Metals						
Total Recoverable Metals Digestion	EPA 200.2	APHA3030F (b)	N/A	180	500 ml HDPE/ 250 ml HDPE	HNO_3
Arsenic	EPA 200.8		1			
Cadmium	EPA 200.8		0.03			
Calcium	EPA 200.7		1000			
Chromium	EPA 200.8	EPA 200.7	1			
Copper	EPA 200.8	EPA 200.7	1			
Iron	EPA 200.7		20			
Lead	EPA 200.8		0.3			
Magnesium	EPA 200.7		1000			
Potassium	EPA 200.7		1000			
Selenium	EPA 200.8		1			
Silver	EPA 200.8	EPA 200.7/200.9	0.2			
Sodium	EPA 200.7		1000			
Zinc	EPA 200.7	EPA 200.8	8			
Antimony	EPA 200.8		0.5			
Barium	EPA 200.7	EPA 200.8	3			
Beryllium	EPA 200.7	EPA 200.8	0.8			
Boron	EPA 200.7	EPA 200.8	10			
Manganese	EPA 200.7	EPA 200.8	5			
Nickel	EPA 200.7	EPA 200.8	2			
Strontium	EPA 200.7	EPA 200.8	20			
Thallium	EPA 200.8		0.2			
Uranium, Natural	EPA 200.8		0.2			
Water Sample - Total						
Mercury	EPA 245.1		0.05	28	HDPE, Glass	HNO3
Mercury, Ultra low level	EPA 245.7		0.005	28	100mL Glass	0.5 ml 12N HCl
Water Sample - Calculated Results						
Total Hardness as $CaCO_3$	A2340 B (Calc)		1000			
Sodium Absorbtion Ratio (SAR)	Calc					

Parameter	Preferred Method	Alternate Method	Req. Report Limit mg/kg (dry weight)	Holding Time Days	Bottle	Preservative
Sediment Sample - Total Recoverable Metals						
Total Recoverable Metals Digestion	EPA 200.2		N/A	180	2000 ml HDPE Widemouth	None
Arsenic	EPA 200.8	EPA 200.9	1			
Cadmium	EPA 200.8	EPA 200.9	0.2			
Chromium	EPA 200.8	EPA 200.7	9			
Copper	EPA 200.8	EPA 200.7	15			
Iron	EPA 200.7	EPA 200.7	10			
Lead	EPA 200.8	EPA 200.9	5			
Zinc	EPA 200.7	EPA 200.7	20			
Sediment Sample - Total Metals						
Mercury	EPA 7471B		0.05	28	2000 ml HDPE Widemouth	None
Sediment Sample - Other						
Polychlorinated Biphenyls (PCB)	SW8082		0.033	14	125 mL Glass w/ Teflon Lid	≤6°C

Parameter	Preferred Method	Alternate Method	Req. Report Limit mg/m^2	Holding Time Days	Bottle	Preservative
Substrate Sample - Chlorophyll-a						
Chlorophyll-a	A 10200 H			28(pH≥7)/ ASAP(pH<7)	Filter	Freeze
Ash Free Dry Weight (AFDW)	A 10300 C (5)					

Updated: November 21, 2014