

SUMMARY OF COLLECTION, PRESERVATION AND ANALYSIS OF SAMPLES

Parameters	Analysis Type	Instruments/ Model	Quantity of sample	Container Type	Preservation	Holding Time	Standard method Reference
pH	In situ	pH meter	-	-	-	-	APHA 4500-H ⁺ B
Temperature	In situ	Electrometric	-	-	-	-	APHA 4500-H ⁺ B
Turbidity	In situ	Turbidimeter	-	-	-	-	APHA 2130
Dissolved Oxygen	In situ	DO meter	-	-	-	-	APHA 4500-O G
Conductivity	Lab	Conductivity Meter	1000 ml	HDPE bottle	Refrigerate, 4 ⁰ C	-	APHA 2510 B
Total Dissolved Solids	Lab	Conductivity Meter	1000 ml	HDPE bottle	Refrigerate, 4 ⁰ C	-	APHA 2540 C
Total Suspended Solids	Lab	Gravimetry	1000 ml	HDPE bottle	Refrigerate, 4 ⁰ C	-	APHA 2540 B
Chemical Oxygen Demand	Lab	UV spectro photometer	1000 ml	HDPE bottle	Refrigerate, 4 ⁰ C	7 days	APHA 5220 D
Biological Oxygen Demand	Lab	DO Meter	1000 ml	HDPE bottle	Refrigerate, 4 ⁰ C	6 hrs	APHA 5210 B
Ammoniacal Nitrogen	Lab	UV Spectrophotometer	1000 ml	HDPE bottle	Refrigerate, 4 ⁰ C	7 days	APHA 4500-Norg B
Heavy Metals	Lab	ICP AES/ICP MS ICP OES-Perkin Elmer 5300, ICP MS Perkin Elmer Elan 6000	100 ml	HDPE bottle	Acidified to pH <2, 4 ⁰ C	6 months	APHA 3030 E/APHA 3120B / EPA 6010 (ICP AES)/APHA 3125 B/USEPA 6020
Pesticides	Lab	GC – MS Agilent	1000 ml	Amber Glass	Refrigerate, 4 ⁰ C	7 days	USEPA 3510C /USEPA8270
Total Bacterial Count	Lab	Plate count method/APHA	40 ml	Sterilized plastic container	Refrigerate, 4 ⁰ C	Immediate	APHA 9215 B
E. Coli	Lab	APHA	40 ml	Sterilized plastic container	Refrigerate, 4 ⁰ C	Immediate	APHA 9222 D

