

Nutrients

Protocol	Analyte	MDL	Instrument
<p>Reference: "EPA 129C Ammonia-N in Drinking and Surface Waters, Domestic and Industrial Wastes".</p> <p>Sample Container: 125 mL polyethylene bottle</p> <p>Preservation: Add sulfuric acid to pH < 2, Cool, < 4C</p> <p>Holding Time: 28 Days</p>	Ammonia-N	0.04 mg-N/L	AQ 400
<p>Reference: Seal Analytical "EPA 126A Nitrate-N + Nitrite-N in Drinking and Surface Waters Domestic and Industrial Wastes".</p> <p>Sample Container: 125 mL polyethylene bottle</p> <p>Preservation: Add sulfuric acid to pH < 2, Cool, < 4C</p> <p>Holding Time: 28 Days</p>	Nitrate-N + Nitrite-N	0.007 mg-N/L	AQ 400
<p>Reference: Seal Analytical "EPA-145C Rev. 2.0"</p> <p>Sample Container: 125 mL polyethylene bottle</p> <p>Preservation: Cool, < 4C</p> <p>Holding Time: 48 hrs</p>	o-Phosphate-P	0.004 mg-P/L	AQ 400
<p>Reference: Seal Analytical "EPA 111C rev. 1A Total Kjeldahl Nitrogen-N (copper catalyst) in Drinking, Ground, and Surface Waters, and Domestic and Industrial Wastes"</p> <p>Sample Container: 125 mL polyethylene bottle</p> <p>Preservation: Add sulfuric acid to pH < 2, Cool, < 4C</p> <p>Holding Time: 28 days</p>	Total Kjeldahl Nitrogen	0.07 mg-N/L	AQ 400

<p>Reference: Seal Analytical "EPA 134C Phosphorus-P, total, in Surface and Saline Waters and Domestic and Industrial".</p> <p>Sample Container: 125 mL polyethylene bottle</p> <p>Preservation: Add sulfuric acid to pH < 2, Cool, <6C</p> <p>Holding Time: 28 days</p>	Total Phosphorus	0.004 mg-N/L	AQ 400
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Carbon

Protocol	Analyte	MDL	Instrument
<p>Reference: "Standard Methods 5310 - Total Organic Carbon"</p> <p>EPA Method 415.1</p> <p>Sample Container: ashed 40 mL septum vial</p> <p>Preservation: Add sulfuric acid to pH < 2, Cool, <4C and filtered with GF/F filter</p> <p>Holding Time: 28 Days</p>	Dissolved Organic Carbon	0.05 mg-C/L	Thermo Scientific Dionex ICS 2100
<p>Reference: "Standard Methods 5310 - Total Organic Carbon"</p> <p>EPA Method 415.1</p> <p>Sample Container: ashed 40 mL septum vial</p> <p>Preservation: Add sulfuric acid to pH < 2, Cool, < 4C</p> <p>Holding Time: 28 Days</p>	Total Organic Carbon	0.05 mg-C/L	Thermo Scientific Dionex ICS 2100
<p>Reference: "Standard Methods 5310 - Total Organic Carbon"</p> <p>EPA Method 415.1</p> <p>Sample Container: ashed 40 mL septum vial</p> <p>Preservation: Add sulfuric acid to pH < 2, Cool, < 4C</p> <p>Holding Time: 28 Days</p>	Total Inorganic Carbon	0.05 mg-C/L	Thermo Scientific Dionex ICS 2100

Bacteria

Protocol	Analyte	MDL	Instrument
<p>Reference: "IDEXX Colilert-18 Test Kit for the Determination of E.coli and Coliform Bacteria in Water Samples",</p> <p>Sample Container: Sterile 120 mL bottle</p> <p>Preservation: Cool, < 10C, away from light</p> <p>Holding Time: 6 hrs prior to be incubated at 35.0 ± 0.5C for 24 hours</p>	<p><i>E. coli</i></p> <p>Total Coliform</p>	<p>1 MPN/100 mL</p> <p>1 MPN/ 100 mL</p>	<p>IDEXX Sealer</p>

Anions & Cations (Anticipated Online January 2022)

Protocol	Analyte	MDL	Instrument
<p>Reference: XX</p> <p>Dionex IonPac CS16, 0.5 X 250 mm</p> <p>Sample Container: 125 mL polyethylene bottle</p> <p>Preservation: < 6C and filtered with 0.2 µm filters</p> <p>Holding Time: 28 Days</p>	<p>Calcium</p> <p>Iron</p> <p>Magnesium</p> <p>Manganese</p> <p>Potassium</p> <p>Sodium</p>	<p>pending</p>	<p>Thermo Scientific</p> <p>Dionex ICS 2100</p>
<p>Reference: (1993), "EPA 300 Determination of Inorganic Anions by Ion Chromatography".</p> <p>Dionex IonPac AS18-Fast-4µm</p> <p>Sample Container: 125 mL polyethylene bottle cleaned without strong acids or detergents</p> <p>Preservation: < 6C and filtered with 0.45 µm filters</p> <p>Holding Time: 28 days except for o-phosphate-P, nitrite-N, and nitrate-N (48 hours) and chlorite (immediately)</p>	<p>Fluoride</p> <p>Acetate</p> <p>Chloride</p> <p>Trifluoroacetate</p> <p>Bromide</p> <p>Nitrate</p> <p>Phosphate</p> <p>Sulfate</p> <p>Nitrite</p> <p>Chlorate</p> <p>Carbonate</p> <p>Thiocyanate</p> <p>Bromate</p> <p>Chromate</p>	<p>0.01 mg/L</p> <p>pending</p> <p>0.02 mg/L</p> <p>pending</p> <p>0.004 mg/L</p> <p>0.002 mg/L</p> <p>0.003 mg/L</p> <p>0.02 mg/L</p> <p>0.004 mg/L</p> <p>0.003 mg/L</p> <p>pending</p> <p>pending</p> <p>pending</p> <p>pending</p>	<p>Thermo Scientific</p> <p>Dionex ICS 2100</p>