



FRL Laboratory Manager: Adam J. Baumann
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FRESHWATER RESEARCH LAB SAMPLE ANALYSIS PRICING

Parameter	Units	Method Reference	Reporting Limit	Target Holding Time (days)	Filtration	Preservation	Price (\$)	Combo Price (\$)
NUTRIENTS								
Total Phosphorus as P	µg/L	USGS 03-4174, EPA 365.1	1.5	28	n.a.	Freeze or 0.2% H ₂ SO ₄ (v/v)	28	44
Total Nitrogen as N	µg/L	USGS 03-4174, EPA 353.2	25.0				30	
Soluble Reactive Phosphorus	µg/L	EPA 365.1	0.8		0.45µm		20	32
Nitrate-Nitrite as N	µg/L	EPA 353.2	1.5				22	
Ammonia as N	µg/L	DPA 350.1	1.5			20		
Reactive Silica as SiO ₂	mg/L	EPA 370.1	0.10				19	
Total Organic Carbon	mg/L	EPA 415.1	0.10		n.a.	0.2% H ₃ PO ₄ (v/v)	17	
Dissolved Organic Carbon	mg/L	EPA 415.1	0.10		0.45µm		17	
COMMON IONS, OTHER								
Chloride	mg/L	EPA 300.1	0.025	28	0.45µm	Freeze or 4°C if analyzed for cations	22	37
Sulfate	mg/L	EPA 300.1	0.040					
Sodium	mg/L	ASTM D6919-03	0.025			0.2% HNO ₃ or 4°C if analyzed for anions	22	
Potassium	mg/L	ASTM D6919-03	0.025					
Magnesium	mg/L	ASTM D6919-03	0.025					
Calcium	mg/L	ASTM D6919-03	0.050					
Alkalinity	mg CaCO ₃ /L	SM 2320-B	5	14	n.a.	4°C	24	
Total Suspended Solids	mg/L	SM 2540-D	0.2	7			24	
Total Dissolved Solids	mg/L	SM 2540-C	20	7			24	
Turbidity	NTU	SM 2130-B	0.100	48 hours			15	
pH	Units	EPA 150.1	n.a.	48 hours			14	



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Parameter	Units	Method Reference	Reporting Limit	Target Holding Time (days)	Filtration	Preservation	Price (\$)	Combo Price (\$)
BIOMASS								
Chlorophyll-a	µg/L	EPA 445.0	0.10	28	0.45µm	4°C if raw water or Freeze if on filter	23	
Ash Free Dry Mass	mg/L	SM 2540-E	0.5		GF/F		22	
PATHOGENS								
E. Coli	cfu/100mL	HACH 10029	1	24 hours	n.a.	4°C	48	

Filtration:	Prices listed do not include filtration costs. Samples that need to be filtered in the laboratory upon arrival will be charged an additional \$14 per sample (not per parameter). Customers can be trained to field filter as an alternative.
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Bottles/Coolers:	MMW will ship coolers and bottles from FRL at no cost to customers. Return shipping costs are billed at \$15 per cooler. There is no charge to hand deliver samples. *MMW sample analyses funding can be used to pay for shipping costs.
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For assistance from MMW contact Dr. Rachel Malison at mmw@flbs.umt.edu or (406) 872-4518, or visit our webpage: <http://flbs.umt.edu/newflbs/outreach/mmw>