



Analyte	Matrix	Method	Reporting Limit (Units)
Aluminum	Water	ICP-MS/FGS-054	4.0 µg/L
Antimony	Water	HG-AFS/FGS-091	0.050 µg/L
Antimony	Water	HG-AFS/FGS-091	0.050 µg/L
Antimony	Water	ICP-MS/FGS-054	0.020 µg/L
Arsenic	Water	HG-AFS/FGS-059	0.050 µg/L
Arsenic	Water	HG-AFS/FGS-059	0.050 µg/L
Arsenic	Water	ICP-MS/FGS-054	0.15 µg/L
Arsenic	Water	Reductive Precipitation ICP-MS/FGS-054	0.05 µg/L
Arsenic (III)	Water	HG-CT-GC-AAS/FGS-022	0.005 µg/L
Arsenic (III)	Water	IC-ICP-MS/LC-ICP-MS	0.050 µg/L
Arsenic (V)	Water	IC-ICP-MS/LC-ICP-MS	0.050 µg/L
Barium	Water	ICP-MS/FGS-054	0.20 µg/L
Beryllium	Water	ICP-MS/FGS-054	0.060 µg/L
Beryllium	Water	Iron Hydroxide ICP-MS/FGS-054	0.005 µg/L
Beryllium	Water	Reductive Precipitation ICP-MS/FGS-054	0.010 µg/L
Boron	Water	ICP-MS/FGS-054	3.00 µg/L
Cadmium	Water	APDC ICP-MS/FGS-054	0.005 µg/L
Cadmium	Water	ICP-MS/FGS-054	0.020 µg/L
Cadmium	Water	Reductive Precipitation ICP-MS/FGS-054	0.005 µg/L
Calcium	Water	ICP-MS/FGS-054	40 µg/L
Chromium	Water	ICP-MS/FGS-054	0.10 µg/L
Chromium	Water	Iron Hydroxide ICP-MS/FGS-054	0.08 µg/L
Chromium	Water	Reductive Precipitation ICP-MS/FGS-054	0.10 µg/L
Chromium (VI)	Water	Colorimetry/FGS-060	2.5 µg/L
Chromium (VI)	Water	IC-ICP-MS/LC-ICP-MS	0.050 µg/L
Cobalt	Water	ICP-MS/FGS-054	0.10 µg/L
Cobalt	Water	Reductive Precipitation ICP-MS/FGS-054	0.02 µg/L
Copper	Water	APDC ICP-MS/FGS-054	0.02 µg/L
Copper	Water	ICP-MS/FGS-054	0.10 µg/L
Copper	Water	Reductive Precipitation ICP-MS/FGS-054	0.05 µg/L
Dimethyl Arsenic	Water	HG-CT-GC-AAS/FGS-022	0.020 µg/L
Hardness	Water	Hardness-Calculated	0.050 mg/L
Iron	Water	Colorimetry/FGS-049	2.5 µg/L
Iron	Water	ICP-MS/FGS-054	10.0 µg/L
Iron (II)	Water	Colorimetry/FGS-049	2.5 µg/L
Lead	Water	APDC ICP-MS/FGS-054	0.010 µg/L
Lead	Water	ICP-MS/FGS-054	0.040 µg/L
Lead	Water	Reductive Precipitation ICP-MS/FGS-054	0.050 µg/L
Lithium	Water	ICP-MS/FGS-054	0.020 µg/L
Magnesium	Water	ICP-MS/FGS-054	2.0 µg/L
Manganese	Water	ICP-MS/FGS-054	0.10 µg/L



Analyte	Matrix	Method	Reporting Limit (Units)
Mercury	Water	CV-AFS/FGS-069	0.50 ng/L
Mercury	Water	CV-AFS/FGS-069	0.05 ng/g
Mercury (0)	Water	CV-AFS/FGS-069	0.50 ng/L
Mercury (II)	Water	CV-AFS/FGS-069	0.50 ng/L
Methyl Mercury	Water	CV-AFS/FGS-069	0.050 ng/L
Molybdenum	Water	ICP-MS/FGS-054	0.06 µg/L
Monomethyl Arsenic	Water	HG-CT-GC-AAS/FGS-022	0.010 µg/L
Nickel	Water	APDC ICP-MS/FGS-054	0.02 µg/L
Nickel	Water	ICP-MS/FGS-054	0.10 µg/L
Nickel	Water	Reductive Precipitation ICP-MS/FGS-054	0.08 µg/L
Platinum	Water	ICP-MS/FGS-054	0.010 µg/L
Potassium	Water	ICP-MS/FGS-054	40.0 µg/L
Selenium	Water	HG-AFS/FGS-055	0.050 µg/L
Selenium	Water	HG-AFS/FGS-055	0.075 µg/L
Selenium	Water	ICP-MS/FGS-054	0.60 µg/L
Selenium	Water	Reductive Precipitation ICP-MS/FGS-054	0.10 µg/L
Selenium (IV)	Water	HG-AFS/FGS-055	0.050 µg/L
Selenium (IV)	Water	ICP-MS/FGS-054	0.050 µg/L
Selenium (VI)	Water	ICP-MS/FGS-054	0.050 µg/L
Selenocyanate	Water	ICP-MS/FGS-054	0.050 µg/L
Silver	Water	APDC ICP-MS/FGS-054	0.005 µg/L
Silver	Water	ICP-MS/FGS-054	0.020 µg/L
Silver	Water	Reductive Precipitation ICP-MS/FGS-054	0.10 µg/L
Sodium	Water	ICP-MS/FGS-054	20 µg/L
Strontium	Water	ICP-MS/FGS-054	0.100 µg/L
Thallium	Water	ICP-MS/FGS-054	0.005 µg/L
Thallium	Water	Reductive Precipitation ICP-MS/FGS-054	0.010 µg/L
Tin	Water	ICP-MS/FGS-054	0.10 µg/L
Titanium	Water	ICP-MS/FGS-054	0.50 µg/L
Total Cyanide	Water	EPA 1678/FGS-076	1.0 µg/L
Total Inorganic Arsenic	Water	HG-CT-GC-AAS/FGS-022	0.005 µg/L
Total Inorganic Selenium	Water	HG-AFS/FGS-055	0.050 µg/L
Uranium	Water	ICP-MS/FGS-054	0.010 µg/L
Vanadium	Water	ICP-MS/FGS-054	0.10 µg/L
Vanadium	Water	Reductive Precipitation ICP-MS/FGS-054	0.01 µg/L
Weak Acid Dissociable Cyanide	Water	EPA 1677/FGS-077	1.0 µg/L
Zinc	Water	ICP-MS/FGS-054	0.20 µg/L
Zinc	Water	Reductive Precipitation ICP-MS/FGS-054	0.08 µg/L



Analyte	Matrix	Method	Reporting Limit (Units)
Aluminum	Soil/Sediment	ICP-MS/FGS-054	100 mg/kg
Antimony	Soil/Sediment	ICP-MS/FGS-054	0.40 mg/kg
Arsenic	Soil/Sediment	HG-AFS/FGS-059	0.10 mg/kg
Arsenic	Soil/Sediment	ICP-MS/FGS-054	1.0 mg/kg
Barium	Soil/Sediment	ICP-MS/FGS-054	2.0 mg/kg
Beryllium	Soil/Sediment	ICP-MS/FGS-054	0.1 mg/kg
Cadmium	Soil/Sediment	ICP-MS/FGS-054	0.050 mg/kg
Calcium	Soil/Sediment	ICP-MS/FGS-054	200 mg/kg
Chromium	Soil/Sediment	ICP-MS/FGS-054	0.50 mg/kg
Chromium (VI)	Soil/Sediment	Colorimetry/FGS-060	5.0 mg/kg
Cobalt	Soil/Sediment	ICP-MS/FGS-054	0.20 mg/kg
Copper	Soil/Sediment	ICP-MS/FGS-054	0.50 mg/kg
Iron	Soil/Sediment	Colorimetry/FGS-049	100 mg/kg
Iron	Soil/Sediment	ICP-MS/FGS-054	200 mg/kg
Lead	Soil/Sediment	ICP-MS/FGS-054	0.40 mg/kg
Magnesium	Soil/Sediment	ICP-MS/FGS-054	20 mg/kg
Manganese	Soil/Sediment	ICP-MS/FGS-054	0.50 mg/kg
Mercury	Soil/Sediment	CV-AFS/FGS-069	1.00 ng/g
Mercury (Post Purge)	Soil/Sediment	CV-AFS/FGS-069	1.00 ng/g
Methyl Mercury	Soil/Sediment	CV-AFS/FGS-069	0.020 ng/g
Molybdenum	Soil/Sediment	ICP-MS/FGS-054	0.50 mg/kg
Nickel	Soil/Sediment	ICP-MS/FGS-054	0.20 mg/kg
Potassium	Soil/Sediment	ICP-MS/FGS-054	200 mg/kg
Selenium	Soil/Sediment	HG-AFS/FGS-055	0.10 mg/kg
Selenium	Soil/Sediment	ICP-MS/FGS-054	2 mg/kg
Selenium (IV)	Soil/Sediment	HG-AFS/FGS-055	0.10 mg/kg
Silver	Soil/Sediment	ICP-MS/FGS-054	0.20 mg/kg
Sodium	Soil/Sediment	ICP-MS/FGS-054	100 mg/kg
Strontium	Soil/Sediment	ICP-MS/FGS-054	1.00 mg/kg
Thallium	Soil/Sediment	ICP-MS/FGS-054	0.050 mg/kg
Tin	Soil/Sediment	ICP-MS/FGS-054	1.0 mg/kg
Titanium	Soil/Sediment	ICP-MS/FGS-054	1.0 mg/kg
Total Inorganic Selenium	Soil/Sediment	HG-AFS/FGS-055	0.10 mg/kg
Uranium	Soil/Sediment	ICP-MS/FGS-054	0.05 mg/kg
Vanadium	Soil/Sediment	ICP-MS/FGS-054	0.50 mg/kg
Zinc	Soil/Sediment	ICP-MS/FGS-054	1.0 mg/kg



Analyte	Matrix	Method	Reporting Limit (Units)
Aluminum	Tissue	ICP-MS/FGS-054	2.0 mg/kg
Antimony	Tissue	ICP-MS/FGS-054	0.020 mg/kg
Arsenic	Tissue	ICP-MS/FGS-054	0.25 mg/kg
Barium	Tissue	ICP-MS/FGS-054	0.050 mg/kg
Beryllium	Tissue	ICP-MS/FGS-054	0.050 mg/kg
Boron	Tissue	ICP-MS/FGS-054	2.00 mg/kg
Cadmium	Tissue	ICP-MS/FGS-054	0.010 mg/kg
Calcium	Tissue	ICP-MS/FGS-054	20 mg/kg
Chromium	Tissue	ICP-MS/FGS-054	0.20 mg/kg
Cobalt	Tissue	ICP-MS/FGS-054	0.05 mg/kg
Copper	Tissue	ICP-MS/FGS-054	0.10 mg/kg
Iron	Tissue	Colorimetry/FGS-049	10 mg/kg
Iron	Tissue	ICP-MS/FGS-054	10 mg/kg
Lead	Tissue	ICP-MS/FGS-054	0.015 mg/kg
Magnesium	Tissue	ICP-MS/FGS-054	5.0 mg/kg
Manganese	Tissue	ICP-MS/FGS-054	0.20 mg/kg
Mercury	Tissue	CV-AFS/FGS-069	0.50 ng/g
Mercury (II)	Tissue	CV-AFS/FGS-069	5.0 ng/g
Methyl Mercury	Tissue	CV-AFS/FGS-069	4.0 ng/g
Molybdenum	Tissue	ICP-MS/FGS-054	0.05 mg/kg
Nickel	Tissue	ICP-MS/FGS-054	0.03 mg/kg
Potassium	Tissue	ICP-MS/FGS-054	5.0 mg/kg
Selenium	Tissue	HG-AFS/FGS-055	0.10 mg/kg
Selenium	Tissue	ICP-MS/FGS-054	0.50 mg/kg
Silver	Tissue	ICP-MS/FGS-054	0.020 mg/kg
Sodium	Tissue	ICP-MS/FGS-054	20 mg/kg
Strontium	Tissue	ICP-MS/FGS-054	0.20 mg/kg
Thallium	Tissue	ICP-MS/FGS-054	0.005 mg/kg
Tin	Tissue	ICP-MS/FGS-054	0.05 mg/kg
Titanium	Tissue	ICP-MS/FGS-054	0.40 mg/kg
Total Inorganic Arsenic	Tissue	HG-CT-GC-AAS/FGS-022	0.005 mg/kg
Uranium	Tissue	ICP-MS/FGS-054	0.025 mg/kg
Vanadium	Tissue	ICP-MS/FGS-054	0.20 mg/kg
Zinc	Tissue	ICP-MS/FGS-054	0.40 mg/kg



Analyte	Matrix	Method	Reporting Limit (Units)
CV-AFS		Cold Vapor Atomic Fluorescence Spectrometry	
CV-GC-AFS		Cold Vapor Gas Chromatography Atomic Fluorescence Spectrometry	
HG-AFS		Hydride Generation Atomic Fluorescence Spectrometry	
HG-CT-GC-AAS		Hydride Generation Cryogenic Trapping Gas Chromatography Atomic Absorption Spectrometry	
ICP-MS		Inductively Coupled Plasma Mass Spectrometry	
IC-ICP-MS		Ion Chromatography Inductively Coupled Plasma Mass Spectrometry	
LC-ICP-MS		High Pressure Liquid Chromatography Inductively Coupled Plasma Mass Spectrometry	

**Analyses listed are not a complete list of all analytical services that Frontier GeoSciences provides. Please contact a project manager for any other analytical services.**