



Montana Environmental Laboratory LLC

2017 CATALOG OF ANALYTICAL SERVICES

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Montana Environmental Laboratory was established in 1976, and has been serving government agencies, communities, businesses, and individuals throughout the state for over 30 years. The laboratory offers expertise in both Microbiology and Chemistry. This document is a catalog of the analyses routinely performed by the laboratory. We also custom design specialized analytical programs by bid or contract. If you have a specific environmental problem, we will work with you to obtain a solution as quickly and as inexpensively as possible. Our staff is always available for consultation and assistance.

CERTIFICATION

Montana Environmental Lab is licensed by the Montana Department of Health and Environmental Sciences to analyze drinking water under the EPA Safe Drinking Water Act.

TURN AROUND TIME

M. E. Lab specializes in customer service and rapid turnaround time. Depending on the analysis requested and the day of the week a sample is received, our turnaround times are routinely the shortest in the state. "Rush" service is available at an additional charge of 50% of the analysis price. Please contact the laboratory for scheduling.

ANALYTICAL METHODS

All listed analytical methods are performed according to methods set forth by either the U.S. Environmental Protection Agency, the American Public Health Association, the U.S. Geological Survey or the Association of Analytical Chemists. Tests which are not conducted by M. E. Lab are sent to our subcontract lab, which is also fully certified by the State of Montana.

SAMPLING AND SHIPPING

M. E. Lab provides sampling and shipping containers appropriate for the specific analysis requested. Before collecting samples, please contact the lab to make sure that the samples will be collected in the correct container and that the necessary volume will be collected for the various tests desired. Some tests have very stringent sample container, time, and preservation requirements. If you have questions, please check with the lab before sampling.



PRICING

The prices set forth in this schedule are for individual samples or small sets. Utilization of our analysis packages can result in substantial savings. If your project involves a large number of samples, please contact us for a project bid.

WEEKEND RATES

Laboratory hours are Monday through Friday, 9 am to 5 pm. If you need analyses or results on analyses that require an analyst to work after hours or on the weekend, an additional charge of \$25.00 per hour (with a one hour minimum) applies.

TERMS

For customers with established credit, our payment terms are net 30 days. After 30 days, interest charges will be accrued at 2% per month. If credit has not been established, payment for services is expected when the samples are submitted. Test results will not be released until payment arrangements have been made.

WATER QUALITY STUDIES

Since 1976, M. E. Lab has been contracted to complete various water quality studies for cities, counties, states, the U.S. Forest Service, the U.S. Department of Fish, Wildlife & Parks, Glacier National Park, Montana Department of Natural Resources, and private industries. These studies have included: field sampling, collection and analysis of samples for bacteriology, sedimentation, fluorometry, and chemical parameters.

M.E. Lab was chosen by Merck KGaA, Darmstadt, Germany to conduct US EPA Alternative Testing Protocol performance studies. Comparability and specificity data was generated in support of Merck's intent to market new products in the U.S. (Redyculc Coliform, a liquid culture P/A medium, and Chromocult Coliform Agar, a membrane filter medium.) In the course of this project, Montana Environmental Lab staff developed custom bench procedures, conducted microbiological and statistical analysis, coordinated nation wide sampling, and provided professional documentation.

If your organization is planning a study, please contact us to discuss your project.



SAMPLING INSTRUCTIONS

General Instructions:

Always label the bottle with the system name, sample location, date and time. For Public Water Supply compliance samples you must put the PWSID number and the correct entry point (EP502, DS001, WL001, etc.) on the form. Carefully and completely fill out the paperwork or chain of custody form before submitting the sample. Be sure to indicate what tests you want us to perform and on which sample.

Bacteriological:

Obtain a sterile bottle from our lab. Label the bottle with the sample location, date and time. Remove the aerator screen from inside the faucet. Be sure to remove all of the aerator and its washer. Dip a paper towel in rubbing alcohol or bleach. Thoroughly clean the inside of the mouth of the faucet and any screw threads with the paper towel. Turn on cold water and reduce the flow to the size of a pencil. Run cold water for 3-5 minutes. Do **NOT** rinse out the bottle. A small white pellet or white powder is supposed to be in the bottle. Tear off the sterile strip. When opening the bottle, do not set the cap down, and do not touch the inside of the cap or the bottle. Fill the bottle to the 100 ml line, or to the neck of the bottle. Cap the bottle immediately after filling. Fill out the form, providing all information requested. Return the bottle to the lab within 30 hours of the time the bottle was filled.

Inorganic Chemicals / Nitrates:

Label the bottle with the sample location, date and time. For a Public Water Supply, nitrates should be taken from the entry point of the system, after any treatment. Fill the bottle up and return it to the lab.

Lead & Copper:

For Public Water Supply compliance purposes, lead & copper samples should be taken from selected customers homes, as a “first draw” sample. Let the water stand in the pipes for at least 8 hours or overnight. Place the one liter bottle under the kitchen faucet. Turn on the cold water and fill the bottle. Label the bottle with the sample location, date and time.

Volatile Organic Chemicals (VOC's):

For a Public Water Supply, VOC's should be taken from the entry point of the system, after any treatment. Do not open the trip blank, just return it with your samples. Label the bottle with the sample location, date and time. Using a small stream of water, fill the vial about ½ way to ¾ full. Add 5-10 drops of hydrochloric acid (the blue capped dropper bottle) to each vial. Carefully fill the vial the rest of the way, until the water domes up, just about to overflow. Screw the cap on firmly and invert the vial to check that there are no air bubbles.

Synthetic Organic Chemicals (SOC's):

For a Public Water Supply, SOC's should be taken from the entry point of the system, after any treatment. Label the bottle with the sample location, date and time. SOC bottles usually contain a preservative. Do not rinse the bottles out. For the small vials, carefully fill the vial until the water domes up, just about to overflow. Screw the cap on firmly, and invert the vial to check that there are no air bubbles. For the one liter amber glass bottles, fill the bottle to the neck and screw the cap on firmly. If there is a blue capped vial of hydrochloric acid attached to the bottle, fill the bottle about ¾ full, then pour in the acid. Fill the bottle to the neck and screw the cap on firmly.



Analytical Services

Individual Analytes in Water	6-9
Metals.....	6-7
Non-metals.....	8-9
Microbiological Testing.....	10
Packages for Domestic Drinking Water	11-16
EPA's "Bare Minimum" Package.....	11
EPA's "Bare Minimum" Plus Arsenic and Fluoride	12
Loan Package.....	13
"What is in my drinking water" Package.....	14
"Comprehensive" Drinking Water Package	15
"Complete" Drinking Water Package.....	16
Packages for Municipal and Public Systems	17-20
Corrosion Parameters.....	17
Complete Phase II & V Inorganic Chemical Analysis Package (IOCs).....	17
VOCs - Volatile Organic Contaminants - Method 524.2	18
SOCs - Herbicides - Method 515.4.....	19
SOCs - Pesticides - Method 525.2	19
SOCs - Carbamate Pesticides - Method 531.1	19
Radiochemical Analysis.....	20

*** NOTE ***

Many other analyses are available upon request. Please call the lab for more information.



INDIVIDUAL ANALYTES IN WATER

METALS

METALS	METHOD	REPORTING LIMIT mg/L	PRICE
Total Metals Digestion	E200.2	-	\$15.00
Aluminum	E200.7, E200.8	0.03	\$15.00
Aluminum, low level	E200.7, E200.8	0.001	\$25.00
Antimony	E200.7, E200.8	0.001	\$15.00
Antimony, low level	E200.7, E200.8	0.00005	\$25.00
Arsenic	E200.8	0.001	\$15.00
Arsenic Speciation	E 200.8	0.001	\$110.00
Barium	E200.7, E200.8	0.05	\$15.00
Beryllium	E200.7, E200.8	0.001	\$15.00
Boron	E200.7	0.005	\$15.00
Cadmium	E200.7, E200.8	0.001	\$15.00
Cadmium, low level	E200.7, E200.8	0.00005	\$25.00
Calcium	E200.8	1.0	\$15.00
Chromium	E200.7, E200.8	0.005	\$15.00
Cobalt	E200.7, E200.8	0.005	\$15.00
Copper	E200.8	0.01	\$15.00
Copper, low level	E200.7, E200.8	0.001	\$25.00
Iron	E200.8	0.03	\$15.00
Lead	E200.8	0.001	\$15.00
Lithium	E200.7	0.1	\$15.00
Magnesium	E200.8	1.0	\$15.00
Manganese	E200.7, E200.8	0.001	\$15.00
Manganese, low level	E200.7, E200.8	0.00005	\$25.00
Mercury	E245.2, E200.8	0.0001	\$15.00
Mercury, low level	E245.2, E200.8	0.00001	\$30.00



METALS (cont.)

METALS	METHOD	REPORTING LIMIT mg/L	PRICE
Molybdenum	E246.2, E200.8	0.001	\$15.00
Nickel	E249.1, E200.8	0.005	\$15.00
Potassium	E270.3, E200.8	1	\$15.00
Selenium	E270.3, E200.8	0.001	\$15.00
Silica	E200.8	0.1	\$15.00
Silver	E200.7, E200.8	0.001	\$15.00
Sodium	E200.8	0.2	\$15.00
Strontium	E200.7	0.01	\$15.00
Thallium	E200.7, E200.8	0.0005	\$15.00
Thallium, low level	E200.7, E200.8	0.00005	\$30.00
Uranium	E200.8	0.0003	\$25.00
Vanadium	E286.2, E200.8	0.01	\$15.00
Zinc	E200.7, E200.8	0.01	\$15.00
Sample Container: 175 mL plastic			
Preservative: HNO ₃ , pH<2			
Holding Time: 6 months			



INDIVIDUAL ANALYTES IN WATER

NON-METALS

PARAMETERS	METHOD	REPORTING LIMIT mg/L	SAMPLE CONTAINER	PRESERVATIVE	HOLDING TIME	PRICE
Alkalinity	SM 2320 B	1.0	250 mL plastic	Cool to 4°C	14 days	\$25.00
Biological Oxygen Demand (BOD) - 5 day	SM 5210 B	2.0	1 L plastic	Cool to 4°C	48 hours	\$47.00
Bromate	E300.1	0.005	175 mL plastic	Cool to 4°C	28 days	\$55.00
Bromide	E300.1	0.005	175 mL plastic	Cool to 4°C	28 days	\$55.00
Carbonaceous BOD (CBOD) - 5 day	SM 5210B (4.e.6)	1.0	1 L plastic	Cool to 4°C	48 hours	\$52.00
Chlorate	E300.1	0.005	175 mL plastic	Cool to 4°C	28 days	\$55.00
Chloride	SM 4500CIE, E300A	0.1	175 mL plastic	Cool to 4°C	28 days	\$22.00
Chlorine, Residual	E330.5 MOD	0.1	175 mL plastic	None	Analyze immediately	\$20.00
Chemical Oxygen Demand (COD)	E410.1, E410.4	1.0	175 mL plastic	H ₂ SO ₄ to pH<2 Cool to 4°C	28 days	\$35.00
Corrosivity, Langelier Index	SM 203	—	1 L plastic	Cool to 4°C	Analyze immediately	\$30.00
Cyanide, total	E335.3, E335.4	0.005	500 mL plastic	NaOH to pH>12 Cool to 4°C	14 days	\$50.00
Dissolved Oxygen, DO	SM 4500-OG	0.1	1 L plastic	Cool to 4°C	Analyze immediately	\$20.00
Ethylene Glycol	ASTM D2982	10	1 L plastic	Cool to 4°C		\$65.00
Fluoride	E300A	0.05	250 mL plastic	None	28 days	\$22.00
Hardness, total	SM 2340 C	2.0	175 mL plastic	Cool to 4°C	6 months	\$22.00
n-Hexane Extractable Material	E1664A	1.0	1L glass	2mLs H ₂ SO ₄ /L Cool to 4°C	28 days	\$75.00
Nitrogen – Ammonia	E350.1	0.01	175 mL plastic	H ₂ SO ₄ to pH<2 Cool to 4°C	28 days	\$25.00
Nitrogen – Kjeldahl, total	E351.2	0.20	1 L plastic	H ₂ SO ₄ to pH<2 Cool to 4°C	28 days	\$37.00
Nitrate	E353.2, E300A	0.01	175 mL plastic	Cool to 4°C	48 hours	\$22.00
Nitrite	E353.2, E300A	0.01	175 mL plastic	Cool to 4°C	48 hours	\$22.00
Nitrate & Nitrite, total	E353.2, E300A	0.01	175 mL plastic	H ₂ SO ₄ to pH<2 Cool to 4°C	28 days	\$22.00
Organic Carbon, Total (TOC)	SM 5310C	0.01	40 mL vial	HPO ₄ to pH<2 Cool to 4°C	28 days	\$47.00
pH	E150.1	0.1 unit	175 mL plastic	None	Analyze immediately	\$12.00



NON-METALS (cont.)

PARAMETERS	METHOD	REPORTING LIMIT mg/L	SAMPLE CONTAINER	PRESERVATIVE	HOLDING TIME	PRICE
Phenolics, total colorimetric	E420.2	—	1 L glass	None	14 days	\$55.00
Phosphorous, total	E365.1	0.01	250 mL plastic	H ₂ SO ₄ to pH<2 Cool to 4°C	28 days	\$27.00
Phosphorus, total low level	E356.1	0.001	250 mL plastic	H ₂ SO ₄ to pH<2 Cool to 4°C	28 days	\$32.00
Phosphorus, Ortho	E365.1, E300A	0.01	175 mL plastic	Cool to 4°C	48 hours	\$22.00
Phosphorus, Ortho low level	E365.1, E300A	0.001	175 mL plastic	Cool to 4°C	48 hours	\$27.00
Residue - Total Dissolved Solids (TDS)	SM 2540 C	1.0	175 mL plastic	None	7 days	\$20.00
Residue - Total Suspended Solids (TSS)	SM2540 D	1.0	175 mL plastic	None	7 days	\$15.00
Residue - Total Suspended Solids (TSS), low level	SM 2540 D	0.1	1 L plastic	None	7 days	\$25.00
Residue - Settleable Solids (SS)	SM 2540 F	0.1	1 L plastic	None	48 hours	\$15.00
Residue - Total Solids (TS)	SM 2540 B	1.0	175 mL plastic	None	7 days	\$15.00
Residue - Volatile Solids (VS)	SM 2540 E	1.0	175 mL plastic	None	7 days	\$25.00
Specific Conductance	SM 2510 B	1 umhos/cm	175 mL plastic	None	Analyze immediately	\$12.00
Specific Gravity	E120.1	—	250 mL glass	None	None	\$15.00
Sulfate	E300A	0.1	250 mL plastic	Cool to 4° C	28 days	\$22.00
Total Petroleum Hydrocarbons (TPH by IR)	E413.2	0.1	1 L glass	2mLs H ₂ SO ₄ /L Cool to 4° C	28 days	\$75.00
Turbidity	E180.1	0.05 NTU	175 mL plastic	None	48 hours	\$20.00



MICROBIOLOGICAL TESTING

DRINKING WATER

	PRICE
Coliform, Total: (presence/absence) SM9223B	\$25.00
Coliform, Total: (count - mpn/100mL) SM9223B	\$35.00
Heterotrophic Plate Count by pour plate (CFU/mL) SM9215B	\$50.00
Heterotrophic Plate Count by membrane filtration (CFU/mL) SM9215D	\$35.00
Fecal coliform (mpn/100mL) SM9223B	\$35.00
Escherichia coliform (E. coli) (mpn/100mL) SM9223B	\$40.00
Iron Bacteria (presence/absence) SM9240	\$50.00
Enterococci: Count (mpn/100mL) (call the lab before sampling)	\$60.00
Sampling: 1 - 120 mL sterile bottle, containing sodium thiosulfate, unpreserved. Store at 4° C.	
Sample Location: Distribution system. Suitable location and technique required.	
Holding Time: < 30 hours	

ENVIRONMENTAL WATER / WASTE WATER

	PRICE
Escherichia Coliform (E. coli) (mpn/100 mL) SM9223B	\$40.00
Fecal Coliform (mpn/100mL) SM9223B	\$40.00
Fecal Coliform, sludge (mpn/g) SM9223B	\$50.00
Sampling: 1 - 120 mL sterile bottle, containing sodium thiosulfate, unpreserved. Store at 4° C.	
Holding Time: < 30 hours	



DRINKING WATER PACKAGES FOR HOMEOWNERS

#1 EPA'S "BARE MINIMUM" PACKAGE

Total Coliform Bacteria Total Nitrate & Nitrite Conductivity pH
PRICE PER SAMPLE: \$55.00

This package offers a savings of 23% off of the individual analysis price of \$71.

Two bottles are required for this package. The first is a 1 Liter sample of unsoftened, untreated water. The second sample is a sterile bacteria bottle taken at the kitchen sink. Please refer to the back of the bacteria form for the proper sampling instructions for coliform bacteria.



**#2 EPA'S "BARE MINIMUM"
(PLUS ARSENIC AND FLUORIDE) PACKAGE**

Total Coliform Bacteria Total Nitrate & Nitrite Conductivity pH Arsenic Fluoride
PRICE PER SAMPLE: \$80.00

This package offers a savings of 26% off of the individual analysis price of \$108.

Two bottles are required for this package. The first is a 1 Liter sample of unsoftened, untreated water. The second sample is a sterile bacteria bottle taken at the kitchen sink. Please refer to the back of the bacteria form for the proper sampling instructions for coliform bacteria.



**LOAN PACKAGE
REQUIRED BY FHA / VA / HUD**

Total Coliform Bacteria Nitrate Nitrite Total Nitrate & Nitrite Lead
PRICE PER SAMPLE: \$100.00

To sample water for lead, you must take a one liter (quart) sized “first draw sample”. This means sampling after the water has had time to sit in the pipes for about eight hours. Most people sample from the kitchen sink, first thing in the morning. The bottle should be opened and placed under the faucet to catch the first drop of COLD water. Fill up the one liter (quart) bottle. The small sterile bottle is used to test for total coliform bacteria. The sampling instructions are on the back of the bacteria form.



#3 “WHAT IS IN MY DRINKING WATER?” PACKAGE

Total Coliform Bacteria Total Nitrate + Nitrite Conductivity pH Arsenic Fluoride	Chloride Calcium Magnesium Hardness Nitrate Nitrite Sulfate
PRICE PER SAMPLE: \$98.00	

This package offers a savings of 60% off the individual analysis price of \$248.

Two bottles are required for this package. The first is a 1 Liter sample of unsoftened, untreated water. The second sample is a sterile bacteria bottle taken at the kitchen sink. Please refer to the back of the bacteria form for the proper sampling instructions for coliform bacteria.



#4 “COMPREHENSIVE” DRINKING WATER PACKAGE

Total Coliform Bacteria Total Nitrate + Nitrite Conductivity pH Arsenic Fluoride Chloride Calcium Magnesium	Hardness Nitrate Nitrite Sulfate Copper Iron Lead Sodium
PRICE PER SAMPLE: \$150.00	

This package offers a savings of 51% off the individual analysis price of \$308.

To sample water for lead and copper, you must take a one liter (quart) sized “first draw sample”. This means sampling after the water has had time to sit in the pipes for about eight hours. Most people sample from the kitchen sink, first thing in the morning. The bottle should be opened and placed under the faucet to catch the first drop of COLD water. Fill up the one liter (quart) bottle. As long as your kitchen sink cold faucet is unsoftened, the rest of the analytes can normally be run out of the same bottle. If your kitchen sink is softened, an additional one liter sample of the unsoftened water will be required to complete this package. Please refer to the back of the bacteria form for the sampling instructions for coliform bacteria.



#5 “COMPLETE” DRINKING WATER PACKAGE

Total Coliform Bacteria	Lead
Total Nitrate + Nitrite	Sodium
Conductivity	Alkalinity
pH	Antimony
Arsenic	Barium
Fluoride	Beryllium
Chloride	Cadmium
Calcium	Chromium
Magnesium	Manganese
Hardness	Mercury
Nitrate	Nickel
Nitrite	Selenium
Sulfate	Thallium
Copper	Total Dissolved Solids (TDS)
Iron	
PRICE PER SAMPLE: \$350.00	

This package offers a savings of 32% off of the individual analysis price of \$518.

To sample water for lead and copper, you must take a one liter (quart) sized “first draw sample”. This means sampling after the water has had time to sit in the pipes for about eight hours. Most people sample from the kitchen sink, first thing in the morning. The bottle should be opened and placed under the faucet to catch the first drop of COLD water. Fill up the one liter (quart) bottle. As long as your kitchen sink cold faucet is unsoftened, the rest of the analytes can normally be run out of the same bottle. If your kitchen sink is softened, an additional one liter sample of the unsoftened water will be required to complete this package. Please refer to the back of the bacteria form for the sampling instructions for coliform bacteria.



DRINKING WATER PACKAGES FOR PUBLIC WATER SUPPLIES

CORROSION PARAMETERS

Alkalinity	Conductivity
Calcium	Langlier Saturation Index
Calcium Hardness	pH
Sampling: 1 - 1 Liter plastic bottle, unpreserved. Store at 4° C.	
PRICE PER SAMPLE: \$75.00	

COMPLETE PHASE II & V INORGANIC CHEMICAL ANALYSIS PACKAGE - (IOC'S)

Antimony	Nickel
Arsenic	Nitrate
Barium	Nitrite
Beryllium	Total Nitrate & Nitrite
Cadmium	Selenium
Chromium	Sulfate
Fluoride	Thallium
Mercury	
Sampling: 1 - 1 Liter plastic bottle, unpreserved. Store at 4° C.	
PRICE PER SAMPLE: \$190.00	



VOLATILE ORGANIC CONTAMINANTS -METHOD 524.2 (VOC'S)

Benzene	1,3-Dichlorobenzene	n-Propylbenzene
Bromobenzene	1,4-Dichlorobenzene	Styrene
Bromochloromethane	Dichlorodifluoromethane	1,1,1,2-Tetrachloroethane
Bromodichloromethane	1,1-Dichloroethane	1,1,2,2-Tetrachloroethane
Bromoform	1,2-Dibromoethane (EDP)	Tetrachloroethene
Bromomethane	1,1-Dichloroethene	Toluene
n-Butylbenzene	cis-1,2-Dichloroethene	1,2,3-Trichlorobenzene
sec-Butylbenzene	trans-1,2-Dichloroethene	1,2,4-Trichlorobenzene
tert-Butylbenzene	1,2-dichloropropane	1,1,1-Trichloroethane
Carbon tetrachloride	1,3-Dichloropropane	1,1,2-Trichloroethane
1,2-Dichloroethane	2,2-Dichloropropane	Trichloroethene
Chlorobenzene	1,1-Dichloropropene	Trichlorofluoromethane
Chlorodibromomethane	cis-1,3-Dichloropropene	1,2,3-Trichloropropane
Chloroethane	trans-1,3-Dichloropropene	Total Trihalomethanes
Chloroform	Ethylbenzene	1,2,4-Trimethylbenzene
Chloromethane	Hexachlorobutadiene	1,3,5-Trimethylbenzene
2-Chlorotoluene	Isopropylbenzene	Vinyl chloride
4-Chlorotoluene	p-Isopropyltoluene	m + p- Xylenes
1,2-Dibromo-3-chloropropane (DBCP)	Methyl-tert-butyl ether (MTBE)	o-Xylene
Dibromomethane	Methylene chloride	Total Xylenes
1,2-Dichlorobenzene	Napthalene	
<p>Sampling: 3 - 40mL VOA vials preserved with 3-5 drops HCL (small blue ampule). The vial must be completely full with no air bubbles. Store at 4° C.</p>		
<p>PRICE PER SAMPLE: \$130.00</p>		



HERBICIDES -METHOD 515.4

Dalapon	Picloram
Dicamba	2,4-D
Dinoseb	2,4,5-TP
Pentachlorophenol	
Sampling: 1 – 250 mL amber glass bottle. Store at 4° C.	
PRICE PER SAMPLE: \$180.00	

PESTICIDES -METHOD 525.2

Benzo(a)pyrene	Metolachlor
Butachlor	Metribuzin
Di(2-ethylhexyl)adipate	Propachlor
Di(2-ethylhexyl)phthalate	Simazine
Sampling: 2 - 1 Liter amber glass bottles, preserved with HCl. Store at 4° C.	
PRICE PER SAMPLE: \$300.00	

CARBAMATE PESTICIDES - METHOD E531.1

Aldicarb	Carbofuran
Aldicarb Sulfone	3-Hydroxycarbofuran
Aldicarb Sulfoxide	Methomyl
Carbaryl	Oxamyl
Sampling: 2 - 40 mL VOA vials containing 1.2 mL monochloroacetic acid. Store at 4° C. Do not rinse the sample bottles.	
PRICE PER SAMPLE: \$175.00	



RADIOCHEMICAL ANALYSES

EPA REQUIRED RADIOCHEMICAL ANALYSIS		
Gross Alpha	Uranium	Adjusted Gross Alpha
²²⁶ Radium	²²⁸ Radium	Combined ²²⁶ + ²²⁸ Radium
Sampling: 4 - 1 Liter plastic bottles, preserved with HNO ₃		
PRICE PER SAMPLE: \$255.00		

INDIVIDUAL RADIOCHEMICAL ANALYSES

PARAMETER	METHOD	REPORTING LIMIT	PRICE
Gross Alpha	E900.0	1.0 pCi/L	\$60.00
Radium- 226	E903.0	0.2 pCi/L	\$90.00
Radium- 228	RA-05	1.0 pCi/L	\$90.00
Radon in Air	Charcoal canister	---	\$40.00
Radon in Water	ASTM D5072-92	100 pCi/L	\$150.00
Uranium	E200.8	0.001 mg/L	\$30.00

*** NOTE ***

Many other analyses are available upon request. Please call the lab for more information.

