



2026

ANALYTICAL CAPABILITIES

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**Water and Wastewater
Inorganic
Wet Chemistry**

| Parameter | Method ¹ | MDL (mg/L) |
|--|--|--------------|
| Acidity | SM 2310 B Titrimetric | 2 |
| Alkalinity | SM 2320 B Titrimetric Includes HCO ₃ , CO ₃ , OH and Total Alkalinity | 2 |
| Biological Activity Reaction Test (BART) | | |
| Iron Related Bacteria | HACH IRB-BART | 0, 1 |
| Slime Forming Bacteria | HACH SLYM-BART | 0, 1 |
| Sulfate Reducing Bacteria | HACH SRB-BART | 0, 1 |
| Biological Oxygen Demand (BOD) | SM 5210B Electrode 5-day (20C) | 2 |
| Set-Up Charge for less than 4 samples | | |
| Bromide | EPA M300.0 Ion Chromatography | 0.05 |
| Carbon | | |
| Dissolved Inorganic (DIC) | SM 5310 B, Combustion/IR Detection | 1 |
| Dissolved Organic (DOC) | SM 5310 B, Combustion/IR Detection | 1 |
| Total Inorganic (TIC) | SM 5310 B, Combustion/IR Detection | 1 |
| Total Organic (TOC) | SM 5310 B, Combustion/IR Detection | 1 |
| Cation-Anion Balance (CAB) | Calculation Requires Alkalinity, Cl, SO ₄ , Ca, Mg, Na and K | |
| Chemical Oxygen Demand (COD) | EPA M410.4 Colorimetric | 10 |
| Chloride | SM 4500 Cl-E Automated Colorimetric | 1 |
| Chloride | EPA M300.0 Ion Chromatography | 0.4 |
| Chromium | | |
| Hexavalent | SM 3500 Cr- B/D Colorimetric | 0.005 |
| Trivalent | Calculation Requires Total and Hexavalent | 0.01 |
| Corrosivity (Langlier Index) | SM 2330 B Calculation Requires Alkalinity, Ca, TDS, Field pH and Field Temperature | 0.01 SI unit |
| Cyanide | | |
| Free (MDL may vary with matrix) | D 6888-09/OIA-1677-09 | 0.003 |
| Available (MDL may vary with matrix) | D 6888-04/OIA-1677-09 | 0.006 |
| Thiocyanate (SCN) | SM 4500 CN-M | 0.1 |
| Total, UV Digestion | D 7511-09 | 0.003 |
| Total | EPA M335.4 Automated Colorimetric | 0.003 |
| Weak Acid Dissociable (WAD) | SM 4500 CN-I | 0.003 |
| Fluoride | SM 4500 F-C | 0.15 |
| Fluoride | EPA M300.0 Ion Chromatography | 0.05 |

1. The methods listed throughout this fee schedule are ACZ's standard methods. Most parameters can be analyzed using alternative methods, such as SM or AOAC. Call an ACZ representative for availability and pricing of alternative methods.

**Water and Wastewater
Inorganic
Wet Chemistry**

| Parameter | Method | MDL (mg/L) |
|--|--|------------|
| Iron | | |
| Ferrous (II) | SM 3500 Fe B | 0.03 |
| Ferric (III) | Calculation | |
| Requires Dissolved and Ferrous | | 0.01 |
| Langlier Index (see Corrosivity) | | |
| Nitrogen | | |
| Ammonia (as N), NH ₃ | EPA M350.1 Automated Colorimetric | 0.05 |
| Ammonia (as N), Un-Ionized | Calculation (requires NH ₃ , Field pH and Temp) | 0.1 |
| Nitrate/Nitrite (as N), NO ₃ /NO ₂ | EPA M353.2 Automated Colorimetric | 0.02 |
| Nitrite (as N), NO ₂ | EPA M353.2 Automated Colorimetric | 0.01 |
| Nitrate (as N), NO ₃ | Calculation (requires NO ₃ /NO ₂ and NO ₂) | 0.01 |
| Organic | Calculation (requires TKN and NH ₃) | 0.1 |
| Inorganic | Calculation (requires NO ₂ /NO ₃ and NH ₃) | 0.02 |
| Total | Calculation (requires NO ₂ /NO ₃ and TKN) | 0.1 |
| Total Kjeldahl (TKN) | EPA M351.2 Block Digest./Auto Color. | 0.2 |
| Oil & Grease, Total Recoverable | EPA 1664A Hexane Extraction | 2 |
| Phenols | | |
| Dissolved (with distillation) | EPA M420.4 Automated Colorimetric | 0.007 |
| Total (with distillation) | EPA M420.4 Automated Colorimetric | 0.007 |
| Phosphorus | | |
| Orthophosphate (as P) | EPA M365.1 Automated Colorimetric | 0.01 |
| Total (as P) (with Persulfate digestion) | EPA M365.1 Automated Colorimetric | 0.01 |
| Phosphate | Calculation (requires Phosphorus) | 0.01 |
| Sulfate (SO ₄) | D 516-02/-07/-11 - Turbidimetric | 1 |
| Sulfate (SO ₄) | EPA M300.0 Ion Chromatography | 0.4 |
| Sulfide (as H ₂ S) | SM4500 S2-D Colorimetric | 0.02 |
| Sulfide, Un-ionized | Calculation (requires H ₂ S, Field Temp/pH, EC) | 0.02 |
| Sulfite (SO ₃) | EPA M377.1 Titrimetric | 2 |

Water and Wastewater
Inorganic
Anions by Ion Chromatography

| Parameter | Method | MDL (mg/L) |
|----------------------------|------------|------------|
| Bromide (Br) | EPA M300.0 | 0.05 |
| Chloride (Cl) | EPA M300.0 | 0.4 |
| Fluoride (F) | EPA M300.0 | 0.05 |
| Sulfate (SO ₄) | EPA M300.0 | 0.4 |

Physical Properties

| Parameter | Method | MDL (mg/L) |
|-------------------------------------|-------------------------------|---------------|
| Color | HACH Color Wheel | 5 Co/Pt |
| Conductance (EC) | SM 2510 B (Meter) | 1 (umhos/cm) |
| Hardness (requires Ca and Mg) | SM 2340 B Calculation | 1.5 |
| pH | SM 4500 H+B (Meter) | 0.1 (units) |
| Residue | | |
| Settleable (SS) | SM 2540 F Imhoff Cone | 0.1 (mL/L/hr) |
| Total (TS) | SM 2540 B Gravimetric, 105° C | 20 |
| Filterable (TDS) | SM 2540 C Gravimetric, 180° C | 20 |
| Non-Filterable (TSS) | SM 2540 D Gravimetric, 105° C | 5 |
| Resistivity (requires conductivity) | SM 2510 B (Meter) | 1 (umhos-cm) |
| Specific Gravity | SM 2710 F | 0.001 |
| Turbidity | EPA M180.1 Nephelometric | 0.1 (NTU) |

**Water and Wastewater
Inorganic
Sample Preparation**

| Parameter | Method |
|----------------------------------|-----------|
| Lab Filtration * | SM 3030 B |
| Lab Filtration & Acidification * | SM 3030 B |
| Lab Filtration (Radiochemistry)* | SM 3030 B |

*(Difficult to filter, high TDS samples may require more than one filtration and additional charge)

Metals Digestions - Hot Plate/Block Technique

| | |
|---|------------------------------------|
| Total Metals (ICP & ICP-MS) | EPA M200.2 |
| Total Metals - (ICP & ICP-MS) | EPA M3010-A |
| Total Recoverable Metals-(ICP & ICP-MS) | EPA M3005-A |
| Total Recoverable Metals-(ICP & ICP-MS) | EPA M200.2 |
| Potentially Dissolved Metals-(ICP & ICP-MS) | Colorado 5 CCR 1002-31.5.31 (2009) |

Metals Analysis

| Parameter | Method | MDL (ug/L) |
|---|-----------------|------------|
| ICP-MS | | |
| One-time per sample per species setup charge (if < 4 parameters requested) | | |
| Routine parameters listed on page 7 | EPA M200.8/6020 | see page 7 |
| Rare Earth Elements ¹ | | |
| Cerium (Ce), Dysprosium (Dy), Erbium (Er), Europium (Eu), Gadolinium (Gd), Holmium (Ho) | | |
| Lanthanum (La), Lutetium (Lu), Neodymium (Nd), Praseodymium (Pr), Scandium (Sc) | | |
| Samarium (Sm), Terbium (Tb), Thulium (Tm), Yttrium (Y) & Ytterbium (Yb) | | 0.1 |

ICP

| | | |
|--|------------------|------------|
| One-time per sample per species setup charge (if < 4 parameters requested) | | |
| Routine parameters listed on page 7 | EPA M200.7/6010B | see page 7 |

Mercury

| | | |
|---------------------------------|--------------------|--------|
| CVAA Mercury (Hg) | EPA 245.1 or 7470A | 0.2 |
| CVAFS Mercury (Hg) ² | EPA 1631E | 0.0003 |
| ICP-MS Mercury (Hg) | EPA M200.8/6020 | 0.06 |

Hydride Generation AA (HGAA)

| | | |
|--|---------------|---|
| HGAA Selenium (Se) | SM 3114 B & C | 2 |
| HGAA Selenium Speciation | SM 3114 B & C | |
| Includes +6, +4, dissolved and organic | | 2 |

1. Includes Lanthanides, Scandium and Yttrium

2. 1 Field transfer blank is required for each project of 1-10 samples. Field transfer blanks are considered billable samples.

Water and Wastewater
Inorganic
Metals Detection Limits¹ in mg/L²

| Instrument EPA Method | ICP 200.7/6010 | ICP/MS ^{3,4} 200.8/6020 | Other |
|---|-------------------|-------------------------------------|-----------------|
| Aluminum (Al) | 0.08 | 0.005 | - |
| Antimony (Sb) | 0.04 | 0.0004 | - |
| Arsenic (As) | 0.04 | 0.0002 | - |
| Barium (Ba) | 0.009 | 0.0005 | - |
| Beryllium (Be) | 0.01 | 0.0001 | - |
| Bismuth (Bi) | 0.04 | - | - |
| Boron (B) | 0.03 | 0.001 | - |
| Cadmium (Cd) | 0.008 | 0.00005 | - |
| Calcium (Ca) | 0.2 | - | - |
| Cesium (Cs) | - | 0.0002 | - |
| Chromium (Cr) | 0.02 | 0.0005 | - |
| Cobalt (Co) | 0.02 | 0.00006 | - |
| Copper (Cu) | 0.02 | 0.0008 | - |
| Gallium (Ga) | 0.1 | - | - |
| Iron (Fe) | 0.09 | 0.007 | - |
| Lead (Pb) | 0.03 | 0.0001 | - |
| Lithium (Li) | 0.01 | - | - |
| Magnesium (Mg) | 0.2 | - | - |
| Manganese (Mn) | 0.02 | 0.0004 | - |
| Mercury (Hg) | - | 0.06 ug/L | 0.0002 (CVAA) |
| Mercury (Hg) (Ultra Low Level) ⁵ | - | - | 0.3 ng/L (1631) |
| Molybdenum (Mo) | 0.02 | 0.0002 | - |
| Nickel (Ni) | 0.008 | 0.0004 | - |
| Potassium (K) | 0.5 | - | - |
| Phosphorous (P) | 0.1 | - | - |
| Scandium (Sc) | 0.05 | 0.0001 | - |
| Selenium (Se) | 0.05 | 0.0001 | 0.002 (Hydride) |
| Silicon (Si) | 0.1 | - | - |
| Silica (SiO ₂) | 0.214 | - | - |
| Silver (Ag) | 0.01 | 0.0001 | - |
| Sodium (Na) | 0.2 | - | - |
| Strontium (Sr) | 0.009 | - | - |
| Sulfur (S) | 0.25 | - | - |
| Tellurium (Te) | - | 0.001 | - |
| Thallium (Tl) | 0.1 | 0.0001 | - |
| Thorium (Th) | - | 0.001 | - |
| Tin (Sn) | 0.04 | 0.0008 | - |
| Titanium (Ti) | 0.005 | - | - |
| Uranium (U) | - | 0.0001 | - |
| Vanadium (V) | 0.01 | 0.0005 | - |
| Zinc (Zn) | 0.02 | 0.006 | - |

1. Any required dilution due to matrix or high TDS will increase the MDLs.

2. Unless otherwise noted.

3. MDLs for elements analyzed by ICP-MS are for a dissolved basis only.

4. See previous page for Rare Earth Elements (Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Tm, Y and Yb)

5. 1 Field transfer blank is required for each project of 1-10 samples. Field transfer blanks are considered billable samples.

Water and Wastewater
Organic
Gas Chromatography Techniques

| Parameter | Method | MDL (mg/L) |
|----------------------------------|-----------------------------|------------|
| TPH (C10-C28) (Extractable), DRO | EPA M8015D/API-DRO GC/FID | 0.1 |
| TPH (C10-C36), DRO/MRO | EPA M8015D/API-DRO GC/FID | 4.95 |
| TVH (C6-C10) (Volatile), GRO | EPA M8015D/API-GRO GC/FID | 0.05 |
| BTEX | EPA M8021B GC/PID | 1 - 2 ug/L |
| BTEX/TVH, GRO | EPA M8021B/8015D GC/PID/FID | 0.05 - 2 |

Gas Chromatography/Mass Spectrometry Techniques

| Parameter | Method | MDL (ug/L) |
|---|--------------------------|------------|
| Volatiles, Low-Level (VOC) | EPA M624.1/8260B GC/MS | 0.2 - 0.5 |
| BTEX | EPA M8260C/D GC/MS | 0.2 - 0.4 |
| BTEX | EPA M624.1 GC/MS | 0.2 - 0.4 |
| Trihalomethanes | EPA M8260C/D GC/MS | 4 |
| Semi-Volatiles (SVOC)(BNAs) | EPA M625.1/8270D/E GC/MS | 0.9 - 20 |
| SVOC Base/Neutral Extractables | EPA M625.1/8270D/E GC/MS | 0.9 - 20 |
| SVOC Acid Extractables | EPA M625.1/8270D/E GC/MS | 0.9 - 20 |
| PAH | EPA M8270D/E GC/MS | 2 |
| 1,4 Dioxane | EPA M8270D/E GC/MS | 2 |
| GC/MS Library Search (10 TICs/Fraction) | EPA M624/8260B GC/MS | N/A |
| GC/MS Library Search (10 TICs/Fraction) | EPA M625/8270C GC/MS | N/A |
| Nonylphenols | ASTM D7065-06 | |
| Monoethyloxalate, Diethyloxalate, Ocyphenol and Bisphenol A (BPA) | | 1 - 20 |

**Water and Wastewater
Radiochemistry**

| Parameter | Method | LLD (pCi/L) |
|------------------------------------|-------------------------------|-------------|
| Gamma Scan | EPA 901.1 | various |
| Gross Alpha/Beta | EPA 900.0/9310 | 2 & 4 |
| Gross Alpha (High TDS Samples) | EPA 900.1 | 1.5 |
| Lead - 210 | Eichrom OTW01 | 4* |
| Polonium - 210 | HASL 300 PO-01-RC | 1.5 |
| Radium - 226 (Alpha Emitting) | EPA 903.0 / 9315 | 1 |
| Radium - 226 (Drinking Water) | EPA 903.1 | 0.4 |
| Radium - 228 (Drinking Water) | EPA 904.0 | 1.5 |
| Radium - 228 | EPA 9320 | 1.5 |
| Thorium - Isotopic (228, 230, 232) | ESM 4108/4506 TOPO Extraction | 0.6 |
| Uranium, Isotopic (234, 235, 238) | Eichrom ACWO3 | 1 |

Metals Analysis by ICP-MS

| Parameter | Method | MDL (ug/L) |
|----------------------|----------------|------------|
| Thorium, Total - 232 | EPA 200.8/6020 | 1 |
| Uranium, Total - 238 | EPA 200.8/6020 | 0.1 |

1. An additional setup charge for ICP-MS analysis may apply. See page 6 for sample prep and setup charges.

*Lower MDLs may be achievable for certain radchem parameters with larger sample volume. Please contact an ACZ rep for more information

Please note, if ACZ is requested to lab filter for dissolved radiochemical parameters additional filtration charges may apply if the sample contains high TDS and is hard to filter or requires pressure filtration.

**Soil and Overburden
Inorganics
Sample Preparation**

| Parameter | Method |
|--|---------------------------|
| Air Dry | USDA No. 1, 1972 |
| Coarse Fragments (> 2.0mm) | ASA No. 9 15-4.2.2 |
| Crush (per 1 kg sample)* | USDA No. 1, 1972 |
| Pulverize (Ring & Puck) | EPA-600/2-78-054 3.1.3 |
| Pulverize (Ring & Puck) Low-Level | EPA-600/2-78-054 3.1.3 |
| Percent Moisture / Percent Solids | ASTM D2216-80/EPA M209F |
| Screen / Pulverize | USDA No. 1, 1972 |
| Screen (per sieve fraction) | ASA No. 9 15-4.2.2 |
| Multi Increment Sampling Composite | HAWAII DOH HEER TGM 4.2.6 |
| Incremental Sampling Methodology (ISM) | ITRC ICM-2 2020 |

Extractions

| Parameter | Method |
|--|----------------------------------|
| AB-DTPA | ASA No. 9 3-5.2.3 |
| Acetic Acid | C.S.U. Soil Testing Lab |
| Bray P-1 Extraction | Soil Survey Method #6S3 |
| NH ₄ Acetate (Extractable) | USDA No. 60 (18) |
| KCL | ASA No. 9 33-3.2.2 |
| Hot Water | ASA No. 9 80-3 |
| Saturated Paste (includes Saturation %) | USDA No. 60 (2) |
| Water | ASA No. 9 10-2.3.2 |
| TCLP Metals Extraction | EPA M1311 |
| TCLP SVOC Organics Extraction | EPA M1311 |
| TCLP VOC Organics Extraction (ZHE) | EPA M1311 |
| CA Waste Extraction Test (WET-STLC) | California Method, Title 22 |
| Meteoric Water Mobility Procedure | NDEP - MWMT (5/96) (Column) |
| Meteoric Water Mobility Procedure | NDEP - MWMT (1990) (Bottle Roll) |
| Column/Serial Batch Leach Studies | per client specifications |
| Sequential Leach Studies | per client specifications |
| SPLP | EPA M1312 |
| DI Leaching Procedure | EPA M1312 DI |
| Shake Extraction | ASTM D3987-85/D4646-16 |
| MEND Shake Extraction | MEND Report 1.20.1 |
| Leaching Environmental Assessment Framework (LEAF) | |
| LSP Curve as a function of pH | EPA M1313 |
| LSP as a function of (L/S) (Percolation) | EPA M1314 |
| Mass Transfer Rates | EPA M1315 |
| LSP as a function of (L/S) (Equilibrium) | EPA M1316 |
| Humidity Cell Test | ASTM D5744-13 |
| In Vitro Bioaccessibility (IVBA) | EPA M1340/9200.2-86 |
| As, Pb and other metals | |

*\$5 charge for each additional kg of sample.

**Soil and Overburden
Inorganic
Digestions**

| Parameter | Method | |
|--|---------------------------------|---|
| EPA Method 3050B (Hot Block) | EPA M3050B | |
| EPA Method 3051 (Microwave) | EPA M3051A | |
| EPA Method 3051 (Waste Oil Digestion) | EPA M3051A | |
| EPA Method 3060 (For Hex-Chrome) | EPA M3060A | |
| Hydrofluoric/Nitric Acid Digestion | EPA M3052 | |
| <i>Chemical Properties</i> | | |
| Parameter | Method | MDL (mg/Kg) |
| Acid-Base Accounting (with Total Sulfur) | EPA 600/2-78-54 | |
| Requires Neutralization Potential & Total Sulfur | | 1 (T CaCO ₃ /1000 T) |
| Acid-Base Accounting (with Sulfur Forms) | EPA 600/2-78-54 | |
| Requires Neutralization Potential & Sulfur Forms | | 1 (T CaCO ₃ /1000 T) |
| Carbon | | |
| Organic (Low Temperature Ignition) | EPA 600/2-78-054 M3.2.14 | 0.3 (%) |
| Total (TC) | ASA No.9 29-2.2.4 Combustion/IR | 0.1 |
| Total Carbonate as CaCO ₃ (TIC) | ASA No.9 29-2.2.4 Combustion/IR | |
| (Requires TC and TOC) | Calculation | 0.1 |
| Total Organic (TOC) | ASA No.9 29-2.2.4 Combustion/IR | 0.1 |
| Cations, Soluble | EPA 6010B ICP | |
| Includes Ca, Mg, Na and K | | various |
| Chromium, Hexavalent | EPA M3060A/EPA 7196A | 0.005 |
| Cation Exchange Capacity (CEC) | USDA No. 60 (19) | 0.2 mg/L |
| Chloride, Soluble | SM4500CI-E | 0.5 mg/L |
| Conductivity | SM 2510 B/USDA 60 M2,21A,27A | 0.001 (mmhos/cm) |
| Cyanide | | |
| Total | EPA M9012B | 0.006 |
| Weak Acid Dissociable (WAD) | SM 4500 CN-I | 0.006 |
| Exchangeable Cations (Ca, Mg, K & Na) | Calculation | |
| Requires: Cations via NH ₄ & Saturated Paste Extractions & Saturation % | | N/A |
| Exchangeable Sodium Percentage | USDA No. 60 (20 b) | |
| Requires: CEC, Na via NH ₄ & Saturated Paste Extractions & Saturation % | | N/A |
| Fluoride, Soluble | SM 4500 F-C/ASTM D 3761 | 0.15 |
| Lime, Estimated (FIZZ) | EPA 600/2-78-054 3.2.3 | N/A |
| Lime Requirement (SMP Buffer) | ASA No.9, 12-3.4.4 | 2.4 m (tons/hectare) |
| Net Acid Generation Procedure (NAG) | | |
| Single NAG | EGI 2002 | 0.1 to 1 Kg H ₂ SO ₄ /t |
| Sequential NAG | EGI 2002 | 0.1 to 1 Kg H ₂ SO ₄ /t |
| Australian NAG | Miller & Donahue (1997 ICARD) | 0.1 to 1 Kg H ₂ SO ₄ /t |
| NAG pH (Only) | EGI 2002 | 0.1 (units) |
| Nevada NAG | Warwick-Stuart-Roger, 7th ICARD | 1 Kg H ₂ SO ₄ /t |

1. Requires extraction, see page 10.

2. Reported as text - N, SL, MO or ST

**Soil and Overburden
Inorganic
Chemical Properties**

| Parameter | Method | MDL (mg/Kg) |
|--|---|---------------------|
| Neutralization Potential | EPA 600/2-78-054 3.2.3 | 0.1 (%) |
| Neutralization Potential (Modified-no heat) | EPA 600/2-78-054 3.2.3 (MOD) | 0.1 (%) |
| Neutralization Potential Siderite Correction | EPA 600/2-78-054 3.2.3-NV | 0.1 (%) |
| Nitrogen | | |
| Ammonia | EPA M350.1 | 0.1 |
| Extractable NO ₃ /NO ₂ | EPA M353.2 | 0.2 |
| Organic (Requires Total and Ammonia) | Calculation | 0.1 (%) |
| Soluble NO ₃ /NO ₂ | EPA M353.2 | 0.1 |
| Total Kjeldahl | EPA M351.2 | 0.2 (%) |
| pH | USDA No. 60 (21a) | 0.1 (units) |
| pH, Corrosivity | EPA M9045D/M9040C | 0.1 (units) |
| Phenols, Total | EPA M420.4 | 0.007 |
| Phosphorus, Extractable | EPA M365.1 | 0.01 |
| Phosphorus, Total | EPA M365.1 | 0.1 (%) |
| Sodium Adsorption Ratio (SAR) | USDA No. 60 Calculation Requires Saturated Paste Extraction, Ca, Mg and Na | N/A (meq./ L ratio) |
| Sulfur | | |
| Forms (Coal/Overburden) | EPA 600/2-78-054 3.2.4 (Sobek) | |
| Includes Organic, Pyritic, Sulfate and Total | | 0.01 (%) |
| Forms (Hard Rock w/heat) | EPA 600/2-78-054 3.2.4 (MOD Sobek) | |
| Includes Organic, Pyritic, Sulfate and Total | | 0.01 (%) |
| Forms (Nevada Modified Sobek) | EPA 600/2-78-054 3.2.4 & 3.2.6 Includes Organic, Pyritic, Sulfate, Hot Water Soluble Sulfate and Total | 0.01 (%) |
| Total | ASTM D-4239-85C (LECO) | 0.01 (%) |
| Sodium Carbonate Insoluble | ASTM D-4239-85C, D1915 | 0.01 (%) |
| Water Insoluble | ASTM D-4239-97C (LECO) | 0.01 (%) |
| Sulfate, Soluble | ASTM D516-07 | 1 |

Mineralogy

| Parameter | Method |
|--|------------------------|
| X-Ray Diffraction (XRD) | |
| Bulk Semi-Quantitative | EPA 600/2-78-054 3.3.4 |
| Quantitative w/Rietveld Refinement | EPA 600/2-78-054 3.3.4 |
| <2µm Clay Speciation | |
| 1. Requires KCL extraction, see page 10. | |
| 2. Requires water extraction, see page 10. | |
| 3. Requires AB-DTPA extraction, see page 10. | |

**Soil and Overburden
Physical Properties**

| Parameter | Method | MDL (%) |
|---|--------------------------|---------|
| Color | Munsel Color chart | N/A |
| Organic Matter - Ignition | EPA M600/2-78-054 3.2.14 | 0.3 |
| Particle Size | | |
| Dry Sieve (per fraction) | ASA No. 9 15-4.2.2 | 0.1 |
| Wet Sieve (per fraction) | ASA No. 9 15-4.2.2 | 0.1 |
| Hydrometer (< 2.0mm) | ASA No. 9 15-5 | |
| Sand, Silt and Clay by percentage plus Texture Classification | | 0.1 |
| Rock Fragments (Cobble, Gravel, etc.) | ASA No. 9 15-4.2.2 | 0.1 |
| Very Fine Sand (Wet Sieve) | ASA No. 9 15-4.2.2 | 0.1 |
| Solids, Volatile (550°C) | SM 2540G | 0.1 |
| Solids, Total | SM 2540B | 0.1 |

**Inorganic
Metals Analysis**

| Parameter | Method | MDL (mg/Kg) |
|---|------------|-------------|
| ICP/MS | | |
| Onetime per sample per species setup charge (if < 4 parameters are requested) | | |
| Routine parameters listed on page 14 | EPA M6020B | see page 14 |
| Rare Earth Elements ¹ | EPA M6020B | |
| Cerium (Ce), Dysprosium (Dy), Erbium (Er), Europium (Eu), Gadolinium (Gd), Holmium (Ho) | | |
| Lanthanum (La), Lutetium (Lu), Neodymium (Nd), Praseodymium (Pr), Scandium (Sc) | | |
| Samarium (Sm), Terbium (Tb), Thulium (Tm), Yttrium (Y) & Ytterbium (Yb) | | 0.05 |

ICP

Onetime per sample per species setup charge (if < 4 parameters are requested)

Routine parameters listed on page 14 EPA M6010D see page 14

Mercury Analysis

| | | |
|----------------------|------------------|----------|
| CVAA Mercury (Hg) | EPA M7471A/7470A | 0.02 |
| Direct Combustion AA | EPA M7473 | 2 (ng/g) |

1. Includes Lanthanides, Scandium and Yttrium

2. Lower detection limit available

3. TCLP, SPLP or MWMP extraction required

**Soil and Overburden
Inorganic**
Metals Detection Limits¹ in mg/Kg²

| Instrument | ICP | ICP/MS ³ | Other |
|--------------------------------|------------|---------------------|-------------------|
| EPA Method | 200.7/6010 | 200.8/6020 | |
| Aluminum (Al) | 8 | 2.5 | - |
| Antimony (Sb) | 4 | 0.2 | - |
| Arsenic (As) | 4 | 0.1 | - |
| Barium (Ba) | 0.9 | 0.25 | - |
| Beryllium (Be) | 1 | 0.05 | - |
| Bismuth (Bi) | 4 | - | - |
| Boron (B) | 3 | 0.5 | - |
| Cadmium (Cd) | 0.8 | 0.025 | - |
| Calcium (Ca) | 20 | - | - |
| Cesium (Cs) | - | 0.1 | - |
| Chromium (Cr) | 2 | 0.25 | - |
| Cobalt (Co) | 2 | 0.025 | - |
| Copper (Cu) | 2 | 0.4 | - |
| Gallium (Ga) | 10 | - | - |
| Iron (Fe) | 9 | - | - |
| Lead (Pb) | 3 | 0.05 | - |
| Lithium (Li) | 1 | - | - |
| Magnesium (Mg) | 20 | - | - |
| Manganese (Mn) | 2 | 0.2 | - |
| Mercury (Hg) | - | - | 0.02 (CVAA) |
| Mercury (Hg) Direct Combustion | - | - | 4 ng/g (EPA 7473) |
| Molybdenum (Mo) | 2 | 0.1 | - |
| Nickel (Ni) | 0.8 | 0.2 | - |
| Potassium (K) | 50 | - | - |
| Phosphorous (P) | 10 | - | - |
| Scandium (Sc) | 5 | 0.05 | - |
| Selenium (Se) | 5 | 0.05 | - |
| Silicon (Si) | 10 | - | - |
| Silica (SiO ₂) | 21.4 | - | - |
| Silver (Ag) | 1 | 0.05 | - |
| Sodium (Na) | 20 | - | - |
| Strontium (Sr) | 0.9 | - | - |
| Sulfur (S) | 0.25 | - | - |
| Tellurium (Te) | - | 0.5 | - |
| Thallium (Tl) | 10 | 0.05 | - |
| Thorium (Th) | - | 0.5 | - |
| Tin (Sn) | 4 | 0.4 | - |
| Titanium (Ti) | 0.5 | - | - |
| Uranium (U) | - | 0.05 | - |
| Vanadium (V) | 1 | 0.25 | - |
| Zinc (Zn) | 2 | 3 | - |

1. Any required dilution due to matrix or high TDS will increase the MDLs.

2. Unless otherwise noted.

**Soil and Overburden
Organic
Gas Chromatography Techniques**

| Parameter | Method | MDL (mg/Kg) |
|----------------------------------|-----------------------------|--------------------|
| TPH (C10-C28) (Extractable), DRO | EPA M8015D/API-DRO GC/FID | 3.3 |
| TPH (C10-C36), DRO/MRO | EPA M8015D/API-DRO GC/FID | 3.3 |
| TVH (C6-C10) (Volatile), GRO | EPA M8015D/API-GRO GC/FID | 0.05 |
| BTEX | EPA M8021B GC/PID | 1 - 2 (ug/Kg) |
| BTEX/TVH, GRO | EPA M8021B/8015D GC/PID/FID | 0.05 - 2 |

Gas Chromatography/Mass Spectrometry Techniques

| Parameter | Method | MDL (ug/Kg) |
|---|--------------------|--------------------|
| Volatiles (VOC) | EPA M8260C/D GC/MS | 3 - 10 |
| BTEX | EPA M8260C/D GC/MS | 0.2 - 0.4 |
| BTEX/MTBE | EPA M8260C/D GC/MS | 0.2 - 0.4 |
| Semi-Volatiles (SVOC) | EPA M8270D/E GC/MS | 66.6 - 833.25 |
| PAHs | EPA M8270D/E GC/MS | 66.6 |
| GC/MS Library Search (10 TICs/Fraction) | EPA M8260C/D GC/MS | N/A |
| GC/MS Library Search (10 TICs/Fraction) | EPA M8270D/E GC/MS | N/A |

**Soil and Overburden
Radiochemistry**

| Parameter | Method | LLD (pCi/g) |
|------------------------------------|--------------------------|-------------|
| Gamma Scan | ESM 901.1 | various |
| Gross Alpha/Beta | EPA 9310 modified | 1 & 2 |
| Lead - 210 | Eichrom OTW01 | 10 |
| Polonium - 210 | HASL Po-01-RC | 1.5 |
| Radium - 226 (alpha emitting) | EPA M9315 | 2 |
| Radium - 226 | EPA M903.1 | 0.5 |
| Radium - 228 | EPA M9320 / 904.0 | 3 |
| Thorium - Isotopic (228, 230, 232) | ESM 4506 TOPO Extraction | 0.3 - 0.6 |
| Uranium - Isotopic (234, 235, 238) | Eichrom ACW 3 | 0.4 |

All Soils radchem pricing listed above does not include sample prep or digestion charges see page 11.

No digestion charge is needed for gamma.

Metals Analysis by ICP-MS

| Parameter | Method | MDL (mg/Kg) |
|----------------|----------------|-------------|
| Thorium, Total | EPA 200.8/6020 | 0.5 |
| Uranium, Total | EPA 200.8/6020 | 0.05 |

1. An additional setup charge for ICP-MS analysis may apply. See page 13 prep and setup charges.

**Lower MDLs may be achievable for certain radchem parameters with larger sample volume. Please contact an ACZ rep for more information.*

Biological Tissue Analysis
Inorganic and Organic
Sample Preparation

| Parameter | Method | |
|---|--|----------------------|
| <i>Flora</i> | | |
| Dry | Air Dry at 40° C | |
| Grind/Pulverize | Willy Mill or Riesch Knife Mill | |
| Extraction | EPA 600/4-81-055 | |
| Ash | USNRC Guidelines | |
| Moisture Percent | D2216-80 | |
| <i>Fauna</i> | | |
| Dissection | EPA 600/4-81-055 | |
| Dissection | USDA/CDC Level III | |
| | USDA/CDC Biosafety Level III, i.e. Deer Mice | |
| Extractions - Metals | EPA 600/4-81-055 | |
| Extractions/Cleanup - Organics | EPA M5000 series | |
| Digestions | EPA M200.3/3051 | |
| <i>Analysis</i> | | |
| Parameter | Method | MDL (mg/Kg) |
| <i>Metals</i> | | |
| ICP/MS | EPA M6020B | Available on request |
| ICP | EPA M6010D | Available on request |
| CVAA | EPA M7470A | Available on request |
| Direct Combustion AA | EPA M7473 | Available on request |
| N, P, K, SO ₄ , B, cations, etc. | EPA M300 series, ASA, etc. | Available on request |

**Regulatory Parameters and Packages
Inorganic and Organic**
Nevada Division of Environmental Protection (NDEP) Mining Parameters

| Parameter | Method |
|--|-------------------------------------|
| Monitoring Tables | |
| NDEP Profile I | NDEP Certified Methods |
| NDEP Profile I-R | NDEP Certified Methods |
| NDEP Profile II | NDEP Certified Methods |
| NDEP Profile III | NDEP Certified Methods |
| Cyanide | |
| Cyanide WAD (NV Method) | SM-4500-CN I,E |
| Cyanide Extraction on Soils and Mine Rock | ASTM D7572-11 |
| Cyanide, Available | ASTM D6888-09 |
| Cyanide, Total (AUTO) | ASTM D7511-09e2 |
| Cyanide, Total | EPA 335.4 |
| Meteoric Water Mobility Procedure (MWMP) | |
| Column Extraction | ASTM E2242-13 |
| Bottle Roll Extraction | ASTM E2242-13 Appendix X1.2 |
| Acid-Base Accounting (ABA) ¹ | |
| Total Sulfur (High Temp. Combustion Method), HCL, HNO ₃ , & Hot Water Extractable Sulfur | EPA 600/2-78-054, 3.2.6 NV Modified |
| ANP by Titration to Phenolphthalein End Point | EPA 600/2-78-054,3.2.3 NV Modified |
| Net Acid Generation (NAG) | Warwick-Stuart-Roger, NV Modified |
| Potential Acid Generation (PAG) | Nevada Modified Net Acid Generation |
| Paste pH ¹ | EPA 600/2-78-054, 3.2.2 NV Modified |
| Humidity Cell Test (HCT) | |
| Weathering Products of Solid Materials | ASTM D5744-13 |
| Redox Potential (ORP) | ASTM D1498 |
| Iron-(II) (Ferrous Iron) | SM 3500-Fe B |
| Iron-(III) (Ferric Iron) | Calculation |
| Mineralogy | |
| XRD | EPA 600/R-02-070 |
| SEM/EDX | EPA 600/R-02-070 |

1. Requires additional preparation charges

**Regulatory Parameters and Packages
Inorganic (IOC's)**
Safe Drinking Water Act (SDWA); National Primary Drinking Water Standards

| Parameter | Method | MCL (mg/L) |
|------------------------------------|---|-------------------|
| Primary Drinking Water Regs (PDWR) | | |
| Arsenic | EPA M200.8 | 0.01 |
| Fluoride Rule | | |
| Fluoride | SM 4500 F-C | 4 |
| Surface Water Treatment Rule | | |
| Turbidity | EPA M180.1 | TT |
| Phase II & IIB | | |
| Asbestos (>10um) | TEM | 7 (MFL) |
| Barium | EPA M200.7 | 2 |
| Cadmium | EPA M200.8 | 0.005 |
| Chromium (total) | EPA M200.7 | 0.1 |
| Mercury | EPA M245.1 | 0.002 |
| Nitrate/Nitrite (as N) | EPA M353.2 | N/A |
| Nitrite (as N) | EPA M353.2 | 1 |
| Nitrate (as N) | EPA M353.2 Calculation Requires NO ₂ /NO ₃ and NO ₂ | 10 |
| Selenium | EPA M200.8 | 0.05 |
| Lead and Copper Rule | | |
| Copper | EPA M200.8 | 1.3 |
| Lead | EPA M200.8 | 0.015 |
| Phase V | | |
| Antimony | EPA M200.8 | 0.006 |
| Beryllium | EPA M200.8 | 0.004 |
| Cyanide | EPA M335.4 | 0.2 |
| Thallium | EPA M200.8 | 0.002 |

1. An additional setup charge for ICP & ICP-MS analysis may apply.

**Regulatory Parameters and Packages
Inorganic (IOC's)**
Safe Drinking Water Act (SDWA); National Primary Drinking Water Standards

| Parameter | Method | MCL (mg/L) |
|------------------------------|--|-------------------|
| Unregulated | | |
| Sulfate | D 516-02/-07/-11 - Turbidimetric | 250 |
| Aluminum | EPA M200.7 | 0.05 - 0.2 |
| Chloride | SM 4500 CL-E | 250 |
| Color | EPA M110.2 | 15 (cu) |
| Copper | EPA M200.8 | 1 |
| Corrosivity (Langlier Index) | SM 2330B Calculation Requires Alkalinity, Ca, pH, TDS and Field Temperature | N/A |
| Fluoride | SM 4500 F-C | 2 |
| Iron | EPA M200.7 | 0.3 |
| Manganese | EPA M200.8 | 0.05 |
| pH | SM 4500 H+B meter | 6.5 - 8.5 |
| Silver | EPA M200.8 | 0.1 |
| TDS | SM 2540 C | 500 |
| Zinc | EPA M200.8 | 5 |

Radiological Standards (Interim and Proposed)

| | | |
|----------------------|--|-------------|
| Alpha emitter | EPA M900.0 | 15 |
| Beta/photon emitters | EPA M900.0 | 4 (mrem/yr) |
| Radium 226 | EPA M903.1 | 5 |
| Radium 228 | EPA M904.0 | 5 |
| Uranium by ICP-MS | EPA M200.8 Includes digestion and ICP-MS setup charge | 0.03 (mg/L) |

1. An additional setup charge for ICP & ICP-MS analysis may apply.

Administrative Services
Data Reporting Formats

| | Standard Report | QC Report | Extended Report |
|------------------------------|------------------------|------------------|------------------------|
| Cover Page | X | X | X |
| Case Narrative (if required) | X | X | X |
| Analytical Results Report | | | |
| Parameter Name | X | X | X |
| EPA Method | X | X | X |
| Analytical Results | X | X | X |
| Qualifiers | X | X | X |
| Units | X | X | X |
| MDL / PQL | X | X | X |
| Analysis Date | X | X | X |
| Analyst | X | X | X |
| Reference Table | X | X | X |
| Sample Receipt Form | X | X | X |
| Chain of Custody | X | X | X |
| Attachments (if required) | X | X | X |

QC Summary

| | | |
|---------------------------------|---|---|
| Initial Calibration Summary | X | X |
| Daily Calibration Check Results | | X |
| Blank Results | X | X |
| Spike Results | X | X |
| LCS Results | X | X |

| | |
|---------------------------------|---|
| Analytical/Instrumentation Logs | X |
| Raw Data | X |
| Calibration Chromatograms | X |

Data Reporting Charges

| Available Formats |
|--|
| Standard Report |
| QC Report (ACZ Standard QC) |
| Extended Report |
| Full CLP-like Level IV reporting |
| Custom reports per client specifications |
| Hard Copy by Mail |

Electronic Data Deliverables**Available Formats**

ACZ Default (MS Excel spreadsheet or MS Access database table)

Custom EDD formats per client specifications

Labor**Description**

Expert Witness, plus travel

Officer

Section Supervisor

Project Manager

Senior Chemist

Chemist

Technician

Clerical

Rush Turnaround**Description**

1 Working Day Turnaround

2 Working Days Turnaround

3 Working Days Turnaround

4 Working Days Turnaround

5 Working Days Turnaround

7 Working Days Turnaround

10 Working Days Turnaround

15 Working Days Turnaround

Sample Storage, Return and Disposal**Description**

Long Term Storage - Non-Hazardous Waste Samples

Disposal - Hazardous Waste Samples

Disposal - Non-Hazardous Waste Samples

Disposal - Quarantined Material

Return/Ship Samples Back to Client

Small Sampling Event

ACZ reserves the right to add a surcharge for any project with less than five samples. Minimum charge is \$250.00

Please contact your customer service representative or project manager for details.

*Minimum fee, may be adjusted based on volume and waste type.

Terms & Conditions**General Agreement**

These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by ACZ, embody the whole agreement of the parties in the absence of a signed and executed contract between ACZ Laboratories, Inc., hereinafter referred to as ACZ, and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. ACZ specifically rejects all additional, inconsistent or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to ACZ. The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provision is severable. No waiver by ACZ of any provision, term or condition hereof or of any breach by or obligation of Client hereunder shall constitute a waiver of such provision, term or condition on any other occasion or a waiver of any other breach by or obligation of Client, unless specifically set forth in writing and executed on behalf of ACZ by a duly authorized officer. This agreement shall be administered and interpreted under the laws of the State of Colorado.

Order of Service**Part A**

- A1 ACZ will accept orders by submission of written purchase order, by telephone or by contractual agreement. Telephone orders should be subsequently confirmed in writing to avoid potential misunderstandings. Submission of a telephone or written purchase order constitutes Client's acceptance of these general terms and conditions.
- A2 ACZ will provide Client with all necessary sample containers, coolers, labels and chain of custody documents at no additional charge provided these supplies are used for samples to be analyzed by ACZ. Sample containers provided by ACZ will include appropriate preservatives.
- A3 ACZ will ship supplies to Client's US destination at ACZ expense using UPS ground services. Expedited services will be invoiced at cost to Client. Client pays for return shipping unless otherwise agreed to in a signed contract between ACZ and Client. Expense of international shipping of sample containers will be by a contract basis only between ACZ and Client.
- A4 All orders are subject to a minimum charge of \$250.00.

Terms & Conditions**Credit Application & Payment Terms****Part B**

B1 Payment terms are Net 30 Days from invoice date unless otherwise executed by written contract. A service charge of 1.5% (18% per annum) will be made on all unpaid invoices 31 (or more) days old. Should it be necessary to assign account balance to a collection agency or attorney for legal action, all subsequent charges and legal fees shall be paid by Client. Should litigation become necessary, Client agrees that the venue shall be Routt County, State of Colorado. ACZ reserves the right to require payment prior to release of data. If payment terms are exceeded, ACZ has no obligation, and will not defend, reproduce, return or supplement data results.

B2 Services performed by ACZ will be in accordance with quoted prices or as stated in the fee schedule, which is subject to change without notice. It is preferred that the client calls an ACZ representative prior to submitting samples to verify price and turnaround time.

B3 In applying for credit, the Client certifies that the information (along with any other information submitted) is true and correct, and will update information that materially changes. All information received shall be treated confidentially by ACZ, and will be used only for the purpose of establishing the amount and conditions of extending commercial credit (not for consumer purposes). Client hereby authorizes all bank and trade references listed in this account application and agreement to release all information, verbal or written, to ACZ and to allow ACZ to utilize any other sources of credit information which ACZ deems reliable. Subsequent credit inquires may be completed by ACZ in connection with any update, renewal or extension of credit. ACZ reserves the right to suspend or terminate credit at any time.

B4 A consulting firm who authorizes ACZ to perform work for Client must be responsible to have Client submit a signed credit application to ACZ that ACZ approves in advance of performing the work. If Client credit is approved, said Client shall elect to either a) be billed directly or, b) have work billed to consulting firm. Regardless if the Client or the consultant is billed, Client accepts final responsibility for payment to ACZ.

Sample Receipt, Delivery of Services and Sample Storage**Part C**

C1 Prior to receipt of samples at ACZ, Client is responsible for the entire risk of loss or any damage to samples. In no event will ACZ assume any responsibility or liability for the action or inaction of any carrier shipping or delivering samples to or from ACZ's premises.

C2 ACZ reserves the right at any time to refuse delivery of, or to revoke acceptance of, any samples which, in the judgment of ACZ, represents a health, safety or environmental risk due to handling, transporting or processing of such samples.

C3 All NRC licensed material and/or samples not meeting ACZ's 250 uRad/Hr screening levels, will be returned to the facility of origin at Client's expense. Any licensed material sent to ACZ for analytical testing must be identified on the COC or Client may incur additional costs including any labor and return fees.

Terms & Conditions

Sample Receipt, Delivery of Services and Sample Storage

Part C

C4 ACZ utilizes analytical methodologies appropriate for sample matrices and accepted by EPA, USGS, ASTM, ASA, Standard Methods and other professional associations. Unless specifically mandated by Client, ACZ reserves the right to use alternative, equivalent methods. It is the responsibility of Client to verify with the regulatory agency that ACZ's quoted methods are acceptable for their statement of work.

C5 Upon receipt of samples, ACZ will use its best efforts to comply with storage, processing and analytical holding time limits as stated in applicable EPA, state guidelines, as requested by Client. However, unless specifically made part of a written agreement between ACZ and Client, such time limits and analytical turnaround times are not guaranteed.

C6 In accordance with ACZ sample acceptance policy, a client must use ACZ's Chain of Custody. ACZ's Chain of Custody contains specific information regarding the criteria that determines whether or not samples will be accepted for analysis. If an alternative Chain of Custody is used, ACZ will make the best effort possible to accept and analyze samples; however, ACZ will not be held liable for any issues that may arise from the use and submission of an improper Chain of Custody form. Likewise, ACZ will not be held liable when an ACZ Chain of Custody is not filled out completely or properly. It is the responsibility of the Client to ensure that all personnel conducting sampling activities are made aware of the requirements stated within Section C6 of ACZ's Terms & Conditions.

C7 ACZ reserves the right to be compensated for instrument down time or damage caused by highly contaminated samples sent to ACZ for trace level analysis (PPM, PPB or PPT) due to percent level or pure product being shipped to ACZ without warning the lab on the COC or in writing to a Project Manager.

C8 Preliminary results, verbal or written, may be given to Client in advance of the final written report. Preliminary data has not been fully reviewed in accordance with ACZ's Quality System and is subject to change without notice.

C9 ACZ will at times subcontract analytical services ordered by Client. In all cases, Client will be informed prior to subcontracting out the work to another laboratory. ACZ assumes no liability for any subcontracted services except as specifically provided for in Part D.

C10 ACZ will store all samples 30 days from date of invoice. At the end of this period, samples will be disposed of properly in compliance with applicable laws or returned to Client. Client will be responsible for shipping and handling charges associated with the return shipping of samples. Client will be billed a surcharge for sample disposal as agreed upon in any written agreement or at the rate quoted in the Administrative Services section of the current ACZ fee schedule. Any special storage, disposal or return requirements of Client must be outlined on the Chain of Custody prior to delivery of samples. Extended storage at Client's request will be invoiced as per the Administrative Services section of ACZ's fee schedule.

C11 Client will be charged \$20.00 per sample disposal fee for all samples deemed to be hazardous.

Terms & Conditions**Warranties, Liabilities and Indemnification****Part D**

D1 ACZ warrants only that its services will fulfill obligations set forth in Sections C4 and C5 above. This warranty is the sole and exclusive warranty given by ACZ in connection with any services performed by ACZ or any results generated from such services. ACZ gives and makes no other representation or warranty of any kind, expressed or implied. Unless a specific contract or Statement of Work (SOW) is accepted by ACZ, no representative of ACZ is authorized to give or make any other representation or warranty or modify this warranty in any way.

D2 The liabilities and obligations of ACZ and the remedies of Client in connection with any services performed by ACZ, will be limited to repeating the service performed or, at the sole option of ACZ, refunding in full or in part, fees paid by Client for such services. ACZ's obligation to repeat services will be contingent on the client providing, at the request of ACZ and at the client's expense, any additional samples necessary. Any reanalysis generating results consistent with the original results will be at Client's expense. Except as otherwise specifically provided herein, ACZ shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses or other damages for any representation or warranty of any kind with respect to ACZ's service or results.

D3 In no event shall ACZ have any responsibility or liability to Client for any failure or delay in performance by ACZ which results, directly or indirectly, from any cause or circumstances beyond the reasonable control of ACZ. Such causes or circumstances shall include, but are not limited to, acts of God, acts of Client, acts or order of any governmental authority, labor disputes, natural disasters, accidents, wars, difficulties or delays in transportation, mail or delivery services, inability to obtain from ACZ's usual sources sufficient services or supplies, or any other cause beyond ACZ's reasonable control.

D4 All results provided by ACZ are strictly for the use of Client. ACZ is in no way responsible for use of such results by Client or third parties. All results should be considered in their entirety and ACZ is in no way responsible for the separation, detachment, or other use of any portion of the results.

D5 Client represents and warrants that any sample delivered to ACZ will be preceded or accompanied by complete written disclosure of the presence of any hazardous substance known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is delivered to ACZ will be packaged, labeled, transported and delivered properly and in accordance to applicable regulations.

D6 The customer shall indemnify and hold harmless ACZ from and against any and all claims, suits, judgments, damages, losses, liabilities, expenses, payments, taxes, duties, fines and/or other costs (including but not limited to reasonable attorney's fees and liability to a third party) arising out of: a) the presence of hazardous substances in any sample of Client regardless of Client's compliance with paragraph D5 hereof, b) accidents occurring during the transport of any sample of Client, c) events or delays caused by Client or otherwise beyond ACZ's control, or d) negligence by Client in the use, evaluation, or application of results provided by ACZ.