



## **LIST OF SERVICES 2011**

**Jan 21, 2011**

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**SOIL**

**ORGANICS IN SOLIDS**

|  |  |   |   |
|--|--|---|---|
| <b>BTEX</b>  | Benzene<br>Toluene   | Ethyl Benzene<br>Xylenes (m+o+p)  |   |
| <b>BTEXS</b>   | BTEX   | Styrene   |   |
| <b>CCME Hydrocarbons (BTEX &amp; Fractions 1-4)</b>      | F1 (C6-10)<br>F2 (C10-C16)   | F3 (C16-C34)<br>F4 (C34-C50)  | BTEX  |
| <b>Grain Size (for CCME PHC Soils)</b>                   | Grain size >0.075 mm   | Grain size <0.075 mm  |   |
| <b>Polycyclic Aromatic Hydrocarbons (PAH)</b>            | Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benzo(a)pyrene<br>Benzo(a)anthracene<br>Benzo(b)fluoranthene | Benzo (g,h,i)perylene<br>Benzo(j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenzo(a,h)anthracene<br>Fluoranthene | Fluorene<br>Indeno(1,2,3-c,d)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene                        |
| <b>Alberta Tier 1 Halogenated Aliphatics</b>             | 1,1-Dichloroethene<br>1,2-Dichloroethane<br>Carbon Tetrachloride   | Chloroform<br>Dibromochloromethane<br>Dichloromethane   | Tetrachloroethene<br>Trichloroethene<br>Vinyl Chloride  |
| <b>Alberta Tier 1 Volatile Chlorinated Aromatics</b>     | Chlorobenzene  | 1,2-Dichlorobenzene   | 1,4-Dichlorobenzene   |
| <b>Alberta Tier 1 Semivolatile Chlorinated Aromatics</b> | 2,4-Dichlorophenol<br>2,4,6-Trichlorophenol<br>2,3,4,6-Tetrachlorophenol<br>Pentachlorophenol                | 1,2,3-Trichlorobenzene<br>1,2,4-Trichlorobenzene<br>1,3,5-Trichlorobenzene<br>1,2,3,4-Tetrachlorobenzene                    | 1,2,3,5-Tetrachlorobenzene<br>1,2,4,5-Tetrachlorobenzene<br>Pentachlorobenzene<br>Hexachlorobenzene |
| <b>Alberta Tier 1 Chlorinated Aromatics</b>              | Alberta Tier 1 Volatile Chlorinated Aromatics + Alberta Tier 1 Semivolatile Chlorinated Aromatics            |   |   |
| <b>Alberta Tier 1 VOC's</b>                              | BTEXS<br>Tier 1 Halogenated Aliphatics<br>Alberta Tier 1 Volatile Chlorinated Aromatics                      |   |   |
| <b>Polychlorinated Biphenyls (PCB)</b>                   | Aroclor 1016<br>Aroclor 1221<br>Aroclor 1232   | Aroclor 1242<br>Aroclor 1248<br>Aroclor 1254  | Aroclor 1260<br>Aroclor 1262<br>Aroclor 1268  |

SOIL

ORGANICS IN SOLIDS (continues)

|   |   |   |   |
|---|---|---|---|
| <b>Volatile Organic Compounds<br/>(includes Alberta Tier 1 VOC's)</b> | Benzene   | 1,2-Dichloroethane  | 1,1,1,2-Tetrachloroethane                                       |
|   | Bromomethane  | 1,1-Dichloroethene  | 1,1,1,2-Tetrachloroethane                                       |
|   | Bromodichloromethane  | cis-1,2-Dichloroethene  | Tetrachloroethene   |
|   | Bromoform   | trans-1,2-Dichloroethene  | Toluene   |
|   | n-Butylbenzene  | Dichloromethane   | 1,2,3-Trichlorobenzene  |
|   | sec-Butylbenzene  | 1,2-Dichloropropane   | 1,2,4-Trichlorobenzene  |
|   | tert-Butylbenzene   | 1,3-Dichloropropane   | 1,3,5-Trichlorobenzene  |
|   | Carbon Tetrachloride  | 2,2-Dichloropropane   | 1,1,1-Trichloroethane   |
|   | Chlorobenzene   | 1,1-Dichloropropene   | 1,1,2-Trichloroethane   |
|   | Chloroethane  | cis-1,3-Dichloropropene   | Trichloroethene   |
|   | Chloroform  | trans-1,3-Dichloropropene   | Trichlorofluoromethane  |
|   | 2-Chlorotoluene   | Ethylbenzene  | 1,2,3-Trichloropropane  |
|   | 4-Chlorotoluene   | Methyl-t-butyl Ether (MTBE)   | 1,2,4-Trimethylbenzene  |
|   | Dibromochloromethane  | Naphthalene   | 1,3,5-Trimethylbenzene  |
|   | Dibromomethane  | iso-Propylbenzene   | Vinyl Chloride  |
|   | 1,2-Dichlorobenzene   | n-Propylbenzene   | m,p-Xylene  |
|   | 1,3-Dichlorobenzene   | iso-Propyltoluene   | o-Xylene  |
| 1,4-Dichlorobenzene   | Styrene   | Xylenes (m,p,o)   |   |
| 1,1-Dichloroethane  |   |   |   |
| <b>Glycols</b>  | Ethylene glycol<br>Propylene glycol   | Diethylene glycol<br>Triethylene glycol   | Tetraethylene glycol  |
| <b>Alcohols</b>   | Methanol<br>Ethanol   | Propanol<br>Isopropanol   | Butanol<br>Pentanol   |
| <b>Solvent Scan</b>   | Acetone<br>Benzene<br>n-Butyl Alcohol<br>Carbon Disulfide<br>Cresols & Cresylic Acid<br>Cyclohexanone | Ethyl Acetate<br>Ethylbenzene<br>Ethyl Ether<br>Isobutanol<br>Methanol<br>Methyl Ethyl Ketone | Nitrobenzene<br>2-Nitropropane<br>Pyridine<br>Toluene<br>Xylene |
| <b>Alkanolamines</b>  | Diethanolamine<br>Diisopropanolamine  | Ethanolamine<br>Methyldiethanolamine  | Diethylethanolamine   |
| <b>Sterilants</b>   | Atrazine<br>Bromacil  | Diuron<br>Linuron   | Simazine<br>Tebuthiuron   |

SOIL

ORGANICS IN SOLIDS (continues)

**Polycyclic Aromatic  
Hydrocarbons (PAH) &  
Alkylated PAH**

|                          |                                  |
|--------------------------|----------------------------------|
| Acenaphthene             | C1-Acenaphthenes                 |
| Acenaphthylene           | C1-Benzo(a)anthracenes/Chrysenes |
| Anthracene               | C2-Benzo(a)anthracenes/Chrysenes |
| Benzo(a)anthracene       | C1-Benzofluoranthenes/Pyrenes    |
| Benzo(a)pyrene           | C2-Benzofluoranthenes/Pyrenes    |
| Benzo(b,j,k)fluoranthene | C1-Biphenyls                     |
| Benzo(g,h,i)perylene     | C2-Biphenyls                     |
| Biphenyl                 | C1-Dibenzothiophenes             |
| Chrysene                 | C2-Dibenzothiophenes             |
| Dibenzo(a,h)anthracene   | C3-Dibenzothiophenes             |
| Dibenzothiophene         | C4-Dibenzothiophenes             |
| Fluoranthene             | C1-Fluoranthenes//Pyrenes        |
| Fluorene                 | C2-Fluoranthenes//Pyrenes        |
| Indeno(1,2,3-c,d)pyrene  | C3-Fluoranthenes//Pyrenes        |
| Naphthalene              | C1-Fluorenes                     |
| Phenanthrene             | C2-Fluorenes                     |
| Pyrene                   | C3-Fluorenes                     |
| Retene                   | C1-Naphthalenes                  |
|                          | C2-Naphthalenes                  |
|                          | C3-Naphthalenes                  |
|                          | C4-Naphthalenes                  |
|                          | C1-Phenanthrenes/Anthracenes     |
|                          | C2-Phenanthrenes/Anthracenes     |
|                          | C3-Phenanthrenes/Anthracenes     |
|                          | C4-Phenanthrenes/Anthracenes     |

**Creosote related target PAH &  
PCP**

|                          |                              |
|--------------------------|------------------------------|
| Acenaphthene             | Fluorene                     |
| Acenaphthylene           | Indeno(1,2,3-c,d)pyrene      |
| Benzo(a)anthracene       | Naphthalene                  |
| Benzo(a)pyrene           | C1-Naphthalenes              |
| Benzo(b,j,k)fluoranthene | C2-Naphthalenes              |
| Benzo(g,h,i)perylene     | Pentachlorophenol            |
| Carbazole                | Phenanthrenes/Anthracenes    |
| Dibenzo(a,h)anthracene   | C1-Phenanthrenes/Anthracenes |
| Dibenzofuran             | Pyrene                       |
| Fluoranthene             |                              |

## SOIL

### ORGANICS IN SOLIDS (continues)

|   |  |
|---|--|
| <b>Total Purgeable Hydrocarbons</b>                         | Total Purgeable Hydrocarbons (C6-C10)  |
| <b>Total Extractable Hydrocarbons</b>                       | Total Extractable Hydrocarbons (C10-C50)   |
| <b>Total Petroleum Hydrocarbons</b>                         | Total Purgeable Hydrocarbons (C6-C10) + Total Extractable Hydrocarbons (C10-C50)   |
| <b>Volatile Petroleum Hydrocarbons (VPH) BC Criteria</b>    | Volatile Petroleum Hydrocarbons (C6-C10)   |
| <b>Extractable Petroleum Hydrocarbons (EPH) BC Criteria</b> | Light Extractable Petroleum Hydrocarbons (C10-C19)<br>Heavy Extractable Petroleum Hydrocarbons (C19-C32)   |
| <b>BTEX, TVH, LEPH, HEPH - BC Criteria (PAH Adjusted)</b>   | BTEX<br>Volatile Petroleum Hydrocarbons (C6-C10)<br>Light Extractable Petroleum Hydrocarbons (C10-C19)<br>Heavy Extractable Petroleum Hydrocarbons (C19-C32)<br>PAH (see list on Page 2) |
| <b>Oil and Grease (Dean &amp; Stark)</b>                    | Oil and Grease (Acetone-Hexane extraction)   |
| <b>Mineral Oil and Grease</b>                               | Mineral Oil and Grease (Includes silica gel clean-up)  |
| <b>VOC Open Scan</b>  | Open Scan-Volatile Organic by GC/MS for unknown compounds  |
| <b>SVOC Open Scan</b>                                       | Open Scan-Extractable Organic by GC/MS for unknown compounds   |
| <b>Dioxins &amp; Furans</b>                                 | Dioxins & Furans by HRGC/MS  |
| <b>EOX</b>  | Extractable Organic Halides  |

## SOIL

### LANDFILL PARAMETERS

|  |   |  |  |
|--|---|--|--|
| <b>TCLP BTEX</b>                         | TCLP Benzene<br>TCLP Toluene  | TCLP Ethyl Benzene<br>TCLP Xylenes   |  |
| <b>TCLP Metals</b>                       | TCLP Antimony<br>TCLP Arsenic<br>TCLP Barium<br>TCLP Beryllium<br>TCLP Boron<br>TCLP Cadmium<br>TCLP Chromium | TCLP Cobalt<br>TCLP Copper<br>TCLP Iron<br>TCLP Lead<br>TCLP Mercury<br>TCLP Nickel<br>TCLP Selenium | TCLP Silver<br>TCLP Thallium<br>TCLP Uranium<br>TCLP Vanadium<br>TCLP Zinc<br>TCLP Zirconium |
| <b>Alberta Class II Landfill Package</b> | TCLP BTEX<br>TCLP Metals  | Flash Point<br>pH  | Paint Filter Test  |

### TOXICITY TESTING IN SOLID WASTE

|                |                          |                          |
|----------------|--------------------------|--------------------------|
| Microtox (MTX) | MTX & MTX w/charcoal.Tr. | Microtox Threshold Study |
|----------------|--------------------------|--------------------------|

### SOIL TEXTURE

|   |                           |                           |                 |
|---|---------------------------|---------------------------|-----------------|
| <b>Soil Texture-Hydrometer</b>                | Clay %                    | Silt %                    | Sand %          |
| <b>Sand Characterization (Septic systems)</b> | Sand (Fine) %<br>Clay %   | Sand (Medium) %<br>Silt % | Sand (Coarse) % |
| <b>Texture</b>                                | Soil Texture-Hand texture |                           |                 |

### OTHER PARAMETERS IN SOIL/SOLIDS

|                    |                 |                     |                         |
|--------------------|-----------------|---------------------|-------------------------|
| Carbon - Inorganic | Cyanide (total) | Phosphorus          | Sulphur - Total         |
| Carbon - Organic   | Organic Matter  | Sulphide            | Total Kjeldahl Nitrogen |
| Carbon - Total     | Phenols         | Sulphur - Elemental | Total Nitrogen (LECO)   |

**DRILLING WASTE**

**SALINITY FOR DRILLING WASTE**

|  |                         |           |                              |
|--|-------------------------|-----------|------------------------------|
| <b>Detailed Salinity - Oversaturated Soil/Fluids (as received)</b> | EC                      | Calcium   | Chloride                     |
|  | pH                      | Magnesium | Sulphate                     |
|  | Sodium Adsorption Ratio | Potassium | Specific Gravity (as recv'd) |
|  | Saturation Percentage   | Sodium    |                              |
| <b>Detailed Salinity - Undersaturated Soil/Waste (as received)</b> | EC                      | Calcium   | Chloride                     |
|  | pH                      | Magnesium | Sulphate                     |
|  | Sodium Adsorption Ratio | Potassium | Specific Gravity (as recv'd) |
|  | Saturation Percentage   | Sodium    | Specific Gravity (Sat.Paste) |
| <b>Nitrogen Add-on for Salinities</b>                              | Ammonia-N               | Nitrate-N | Nitrite-N                    |
|  | Total Nitrogen          |           |                              |

**METALS IN DRILLING WASTE**

|                               |                       |                  |                |
|-------------------------------|-----------------------|------------------|----------------|
| <b>EUB G-50 Metals</b>        | Boron (HWS)           | Copper           | Vanadium       |
|                               | Cadmium               | Nickel           | Zinc           |
|                               | Chromium              | Lead             |                |
| <b>CCME Metals in liquids</b> | Total Arsenic         | Total Copper     | Total Selenium |
|                               | Total Barium          | Total Lead       | Total Silver   |
|                               | Total Cadmium         | Total Mercury    | Total Tin      |
|                               | Total Chromium        | Total Molybdenum | Total Zinc     |
|                               | Total Cobalt          | Total Nickel     |                |
| <b>CCME Metals in solids</b>  | Antimony              | Chromium (total) | Selenium       |
|                               | Arsenic               | Cobalt           | Silver         |
|                               | Barium                | Copper           | Strontium      |
|                               | Beryllium             | Lead             | Thallium       |
|                               | Boron (HWS)           | Mercury          | Tin            |
|                               | Cadmium               | Molybdenum       | Vanadium       |
|                               | Chromium (hexavalent) | Nickel           | Zinc           |
|                               |                       |                  |                |

## DRILLING WASTE

### HYDROCARBONS IN DRILLING WASTE

|  |   |                              |      |
|--|---|------------------------------|------|
| <b>CCME Hydrocarbons in solids (BTEX &amp; Fractions 1-4)</b>  | F1 (C6-10)<br>F2 (C10-C16)  | F3 (C16-C34)<br>F4 (C34-C50) | BTEX |
| <b>CCME Hydrocarbons in liquids (BTEX &amp; Fractions 1-4)</b> | F1 (C6-10)<br>F2 (C10-C16)  | F3 (C16-C34)<br>F4 (C34-C50) | BTEX |
| <b>TPurGH in solids</b>  | Total Purgeable Hydrocarbons (C6-C10) in solids   |                              |      |
| <b>TEH in solids</b>   | Total Extractable Hydrocarbons (C10-C50) in solids  |                              |      |
| <b>TPH in solids</b>   | Total Purgeable Hydrocarbons (C6-C10) + Total Extractable Hydrocarbons (C10-C50) in solids  |                              |      |
| <b>TPurGH in liquids</b>                                       | Total Purgeable Hydrocarbons (C6-C10) in liquids  |                              |      |
| <b>TEH in liquids</b>  | Total Extractable Hydrocarbons (C10-C50) in liquids   |                              |      |
| <b>TPH in liquids</b>  | Total Purgeable Hydrocarbons (C6-C10) + Total Extractable Hydrocarbons (C10-C50) in liquids |                              |      |

### LANDFILL PACKAGES

|  |   |  |  |
|--|---|--|--|
| <b>TCLP BTEX</b>                         | TCLP Benzene<br>TCLP Toluene  | TCLP Ethyl Benzene<br>TCLP Xylenes   |  |
| <b>TCLP Metals</b>                       | TCLP Antimony<br>TCLP Arsenic<br>TCLP Barium<br>TCLP Beryllium<br>TCLP Boron<br>TCLP Cadmium<br>TCLP Chromium | TCLP Cobalt<br>TCLP Copper<br>TCLP Iron<br>TCLP Lead<br>TCLP Mercury<br>TCLP Nickel<br>TCLP Selenium | TCLP Silver<br>TCLP Thallium<br>TCLP Uranium<br>TCLP Vanadium<br>TCLP Zinc<br>TCLP Zirconium |
| <b>Alberta Class II Landfill Package</b> | TCLP BTEX<br>TCLP Metals  | Flash Point<br>pH  | Paint Filter Test  |

### TOXICITY TESTING

|   |   |   |
|---|---|---|
| Sample composite<br>MTX Threshold Study | Microtox (MTX) in liquids<br>Microtox (MTX) in solids | Microtox & Microtox with charcoal Treatment in liquids<br>Microtox & Microtox with charcoal Treatment in solids |
|---|---|---|

### OTHER PARAMETERS IN DRILLING WASTE

|                               |                                       |   |  |
|-------------------------------|---------------------------------------|---|--|
| Ammonia-N<br>Atterberg Limits | Chloride<br>Oil & Grease (Dean&Stark) | Particle Size by Sieve<br>Particle Size by Hydrometer | Specific Gravity (as recv'd)<br>Specific Gravity (Sat.Paste) |
|-------------------------------|---------------------------------------|---|--|

**WATER**

**WATER POTABILITY**

|                                   |   |  |   |
|-----------------------------------|---|--|---|
| <b>Water Potability Package 1</b> | pH<br>EC<br>Cations<br>Anions                   | Dissolved Iron<br>Carbonate<br>Bicarbonate<br>Alkalinity                   | Hardness<br>Total Dissolved Solids (calc)<br>Turbidity (visual)<br>Color (visual) |
| <b>Water Potability Package 2</b> | pH<br>EC<br>Cations<br>Anions<br>Dissolved Iron | Dissolved Manganese<br>Carbonate<br>Bicarbonate<br>Hydroxide<br>Alkalinity | Hardness<br>Total Dissolved Solids (calc)<br>Turbidity (NTU)<br>Color True (TCU)  |
| <b>Water Potability Package 3</b> | Water Potability Pkg 1                          | Dissolved Metals   | (see list of metals in page 13)   |
| <b>Cations</b>                    | Calcium<br>Sodium                               | Magnesium  | Potassium   |
| <b>Anions</b>                     | Chloride<br>Fluoride                            | Nitrate-N<br>Nitrite-N   | Sulphate<br>Phosphate   |

**MUNICIPAL WATER TREATMENT PLANT PACKAGES**

|  |  |   |   |
|--|--|---|---|
| <b>Water Treatment Plant (WTP) Package</b> | Calcium<br>Magnesium<br>Sodium<br>Fluoride | Nitrate-N<br>Nitrite-N<br>Nitrite-Nitrate-N<br>Alkalinity | Hardness<br>Total Dissolved Solids<br>Turbidity |
| <b>WTP + Ammonia/TOC Package</b>           | WTP Package                                | Ammonia   | TOC   |
| <b>Dissolved Al Cu Pb Package</b>          | Dissolved Aluminum                         | Dissolved Copper  | Dissolved Lead                                  |
| <b>Total Al Cu Pb Package</b>              | Total Aluminum                             | Total Copper  | Total Lead                                      |
| <b>Basic Water Testing Package</b>         | pH<br>EC<br>Cations<br>Anions              | Dissolved Iron<br>Carbonate<br>Bicarbonate<br>Alkalinity  | Hardness<br>Total Dissolved Solids (calc)       |

**MICROBIOLOGY IN WATER**

|                       |                          |                            |                           |
|-----------------------|--------------------------|----------------------------|---------------------------|
| Total Coliforms       | E-Coli                   | Sulphate Reducing Bacteria | Heterotrophic Plate Count |
| Fecal Coliforms       | Total Coliforms & E-Coli | Iron Reducing Bacteria     | Giardia & Cryptosporidium |
| Tot & Fecal Coliforms | Fungi (Mold & Yeast)     | Legionella                 |                           |

**WATER**

**METALS IN WATER**

|  |                     |                      |                     |
|--|---------------------|----------------------|---------------------|
| <b>Dissolved Metals</b>                        | Dissolved Aluminum  | Dissolved Cobalt     | Dissolved Silver    |
|  | Dissolved Antimony  | Dissolved Copper     | Dissolved Strontium |
|  | Dissolved Arsenic   | Dissolved Iron       | Dissolved Thallium  |
|  | Dissolved Barium    | Dissolved Lead       | Dissolved Tin       |
|  | Dissolved Beryllium | Dissolved Manganese  | Dissolved Uranium   |
|  | Dissolved Boron     | Dissolved Molybdenum | Dissolved Vanadium  |
|  | Dissolved Cadmium   | Dissolved Nickel     | Dissolved Zinc      |
|  | Dissolved Chromium  | Dissolved Selenium   |                     |
| <b>Dissolved Metals Including Mercury</b>      | Dissolved Metals    | Dissolved Mercury    |                     |
| <b>Dissolved Metals for Drinking Water</b>     | Dissolved Aluminum  | Dissolved Cadmium    | Dissolved Manganese |
|  | Dissolved Antimony  | Dissolved Chromium   | Dissolved Mercury   |
|  | Dissolved Arsenic   | Dissolved Copper     | Dissolved Selenium  |
|  | Dissolved Barium    | Dissolved Iron       | Dissolved Uranium   |
|  | Dissolved Boron     | Dissolved Lead       | Dissolved Zinc      |
| <b>Alberta Tier1 Dissolved Metals</b>          | Dissolved Aluminum  | Dissolved Chromium   | Dissolved Nickel    |
|  | Dissolved Antimony  | Dissolved Copper     | Dissolved Selenium  |
|  | Dissolved Arsenic   | Dissolved Iron       | Dissolved Silver    |
|  | Dissolved Barium    | Dissolved Lead       | Dissolved Uranium   |
|  | Dissolved Boron     | Dissolved Manganese  | Dissolved Zinc      |
| <b>CCME Dissolved Metals</b>                   | Dissolved Arsenic   | Dissolved Copper     | Dissolved Selenium  |
|  | Dissolved Barium    | Dissolved Lead       | Dissolved Silver    |
|  | Dissolved Cadmium   | Dissolved Mercury    | Dissolved Tin       |
|  | Dissolved Chromium  | Dissolved Molybdenum | Dissolved Zinc      |
|  | Dissolved Cobalt    | Dissolved Nickel     |                     |
| <b>Dissolved Metals Full Scan (no Mercury)</b> | Dissolved Aluminum  | Dissolved Copper     | Dissolved Silver    |
|  | Dissolved Antimony  | Dissolved Iron       | Dissolved Sodium    |
|  | Dissolved Arsenic   | Dissolved Lead       | Dissolved Strontium |
|  | Dissolved Barium    | Dissolved Lithium    | Dissolved Sulphur   |
|  | Dissolved Beryllium | Dissolved Magnesium  | Dissolved Thallium  |
|  | Dissolved Bismuth   | Dissolved Manganese  | Dissolved Tin       |
|  | Dissolved Boron     | Dissolved Molybdenum | Dissolved Titanium  |
|  | Dissolved Cadmium   | Dissolved Nickel     | Dissolved Uranium   |
|  | Dissolved Calcium   | Dissolved Potassium  | Dissolved Vanadium  |
|  | Dissolved Chromium  | Dissolved Selenium   | Dissolved Zinc      |
|  | Dissolved Cobalt    | Dissolved Silicon    | Dissolved Zirconium |

**WATER**

**METALS IN WATER (Continues)**

|  |                 |                  |                 |
|--|-----------------|------------------|-----------------|
| <b>Total Metals</b>                        | Total Aluminum  | Total Cobalt     | Total Silver    |
|  | Total Antimony  | Total Copper     | Total Strontium |
|  | Total Arsenic   | Total Iron       | Total Thallium  |
|  | Total Barium    | Total Lead       | Total Tin       |
|  | Total Beryllium | Total Manganese  | Total Uranium   |
|  | Total Boron     | Total Molybdenum | Total Vanadium  |
|  | Total Cadmium   | Total Nickel     | Total Zinc      |
|  | Total Chromium  | Total Selenium   |                 |
| <b>Total Metals Including Mercury</b>      | Total Metals    | Total Mercury    |                 |
|  |                 |                  |                 |
| <b>Total Metals for Drinking Water</b>     | Total Aluminum  | Total Cadmium    | Total Manganese |
|  | Total Antimony  | Total Chromium   | Total Mercury   |
|  | Total Arsenic   | Total Copper     | Total Selenium  |
|  | Total Barium    | Total Iron       | Total Uranium   |
|  | Total Boron     | Total Lead       | Total Zinc      |
| <b>Alberta Tier1 Total Metals</b>          | Total Aluminum  | Total Chromium   | Total Nickel    |
|  | Total Antimony  | Total Copper     | Total Selenium  |
|  | Total Arsenic   | Total Iron       | Total Silver    |
|  | Total Barium    | Total Lead       | Total Uranium   |
|  | Total Boron     | Total Manganese  | Total Zinc      |
|  | Total Cadmium   | Total Mercury    |                 |
| <b>CCME Total Metals</b>                   | Total Arsenic   | Total Copper     | Total Selenium  |
|  | Total Barium    | Total Lead       | Total Silver    |
|  | Total Cadmium   | Total Mercury    | Total Tin       |
|  | Total Chromium  | Total Molybdenum | Total Zinc      |
|  | Total Cobalt    | Total Nickel     |                 |
| <b>Total Metals Full Scan (no Mercury)</b> | Total Aluminum  | Total Copper     | Total Silver    |
|  | Total Antimony  | Total Iron       | Total Sodium    |
|  | Total Arsenic   | Total Lead       | Total Strontium |
|  | Total Barium    | Total Lithium    | Total Sulphur   |
|  | Total Beryllium | Total Magnesium  | Total Thallium  |
|  | Total Bismuth   | Total Manganese  | Total Tin       |
|  | Total Boron     | Total Molybdenum | Total Titanium  |
|  | Total Cadmium   | Total Nickel     | Total Uranium   |
|  | Total Calcium   | Total Potassium  | Total Vanadium  |
|  | Total Chromium  | Total Selenium   | Total Zinc      |
|  | Total Cobalt    | Total Silicon    | Total Zirconium |

## WATER

### WATER SALINITY

|  |  |                                 |                             |
|--|--|---------------------------------|-----------------------------|
| <b>Basic Salinity</b>                              | pH<br>EC<br>Chloride                     | Calcium<br>Magnesium            | Sodium<br>SAR               |
| <b>Detailed Salinity</b>                           | pH<br>EC<br>Chloride<br>TDS (Calculated) | Sulphate<br>Sodium<br>Magnesium | Calcium<br>Potassium<br>SAR |
| <b>Detailed Salinity G-50<br/>for Liquid Waste</b> | Detailed Salinity<br>Specific Gravity    | Nitrate                         | #REF! Nitrite #REF!         |

### TOXICITY TESTING IN LIQUID WASTE

|                |                          |                          |
|----------------|--------------------------|--------------------------|
| Microtox (MTX) | MTX & MTX w/charcoal.Tr. | Microtox Threshold Study |
|----------------|--------------------------|--------------------------|

### OTHER WATER/WASTEWATER PARAMETERS

|           |                             |                              |                           |
|-----------|-----------------------------|------------------------------|---------------------------|
| Ammonia-N | Chlorine (total residual)   | Microcystin LR               | Total Kjeldhal Nitrogen   |
| BOD       | Dissolved Kjeldhal Nitrogen | Phenols (total)-colorimetric | Total Organic Carbon      |
| CBOD      | Dissolved Organic Carbon    | Reactive Silica-Colorimetry  | Total Phosphorus          |
| Bromate   | Dissolved Oxygen            | Sulphide                     | Total Suspended Solids    |
| Bromide   | Dissolved Phosphorus        | Surfactants                  | UV Absorbance (254 nm)    |
| COD       | Oil and Grease              | Total Carbon                 | UV Transmittance (254 nm) |
| Cyanide   | Methyl Mercury              | Total Dissolved Solids       | X-Ray Diffraction (XRD)   |

## WATER

### ORGANICS IN WATER

|  |  |  |   |
|--|--|--|---|
| <b>BTEX</b>  | Benzene<br>Toluene   | Ethyl Benzene<br>Xylene (o+m+p)  |   |
| <b>BTEXS</b>   | BTEX   | Styrene  |   |
| <b>BTEX, Fractions 1 &amp; 2<br/>(Alberta Guideline)</b> | BTEX   | F1 (C6-C10)  | F2 (C10-C16)  |
| <b>Total Purgeable Hydrocarbons</b>                      | Total Purgeable Hydrocarbons (C6-C10)  |  |   |
| <b>Total Extractable Hydrocarbons</b>                    | Total Extractable Hydrocarbons (C10-C50)   |  |   |
| <b>Total Petroleum Hydrocarbons</b>                      | Total Purgeable Hydrocarbons (C6-C10) + Total Extractable Hydrocarbons (C10-C50)                             |  |   |
| <b>Petroleum Hydrocarbons (BC Criteria)</b>              | BTEXS<br>MTBE<br>PAH's   | VPH - Volatile Petroleum Hydrocarbons (C6-C10)<br>EPH - Extractable Petroleum Hydrocarbons (C10-C32)<br>LEPH - Light Extractable Petroleum Hydr. (C10-C19)<br>HEPH - Heavy Extractable Petroleum Hydr. (C19-C32) |   |
| <b>Trihalomethanes (THM)</b>                             | Chloroform<br>Chlorodibromomethane   | Dibromochloromethane<br>Bromoform  | Total Trihalomethanes   |
| <b>Polycyclic Aromatic Hydrocarbons (PAH)</b>            | Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benzo(a)pyrene<br>Benzo(a)anthracene<br>Benzo(b)fluoranthene | Benzo (g,h,i)perylene<br>Benzo(j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenzo(a,h)anthracene<br>Fluoranthene  | Fluorene<br>Indeno(1,2,3-c,d)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene                        |
| <b>Alberta Tier 1 Halogenated Aliphatics</b>             | 1,1-Dichloroethene<br>1,2-Dichloroethane<br>Carbon Tetrachloride   | Chloroform<br>Dibromochloromethane<br>Dichloromethane  | Tetrachloroethene<br>Trichloroethene<br>Vinyl Chloride  |
| <b>Alberta Tier 1 Volatile Chlorinated Aromatics</b>     | Chlorobenzene  | 1,2-Dichlorobenzene  | 1,4-Dichlorobenzene   |
| <b>Alberta Tier 1 Semivolatile Chlorinated Aromatics</b> | 2,4-Dichlorophenol<br>2,4,6-Trichlorophenol<br>2,3,4,6-Tetrachlorophenol<br>Pentachlorophenol                | 1,2,3-Trichlorobenzene<br>1,2,4-Trichlorobenzene<br>1,3,5-Trichlorobenzene<br>1,2,3,4-Tetrachlorobenzene   | 1,2,3,5-Tetrachlorobenzene<br>1,2,4,5-Tetrachlorobenzene<br>Pentachlorobenzene<br>Hexachlorobenzene |
| <b>Alberta Tier 1 Chlorinated Aromatics</b>              | Alberta Tier 1 Volatile Chlorinated Aromatics + Alberta Tier 1 Semivolatile Chlorinated Aromatics            |  |   |
| <b>Alberta Tier 1 VOC's</b>                              | BTEXS<br>Tier 1 Halogenated Aliphatics<br>Alberta Tier 1 Volatile Chlorinated Aromatics                      |  |   |

## WATER

### ORGANICS IN WATER (Continues)

|   |                      |                             |                           |
|---|----------------------|-----------------------------|---------------------------|
| <b>Volatile Organic Compounds (includes Alberta Tier 1 VOC's)</b> | Benzene              | 1,2-Dichloroethane          | 1,1,1,2-Tetrachloroethane |
|   | Bromomethane         | 1,1-Dichloroethene          | 1,1,2,2-Tetrachloroethane |
|   | Bromodichloromethane | cis-1,2-Dichloroethene      | Tetrachloroethene         |
|   | Bromoform            | trans-1,2-Dichloroethene    | Toluene                   |
|   | n-Butylbenzene       | Dichloromethane             | 1,2,3-Trichlorobenzene    |
|   | sec-Butylbenzene     | 1,2-Dichloropropane         | 1,2,4-Trichlorobenzene    |
|   | tert-Butylbenzene    | 1,3-Dichloropropane         | 1,3,5-Trichlorobenzene    |
|   | Carbon Tetrachloride | 2,2-Dichloropropane         | 1,1,1-Trichloroethane     |
|   | Chlorobenzene        | 1,1-Dichloropropene         | 1,1,2-Trichloroethane     |
|   | Chloroethane         | cis-1,3-Dichloropropene     | Trichloroethene           |
|   | Chloroform           | trans-1,3-Dichloropropene   | Trichlorofluoromethane    |
|   | 2-Chlorotoluene      | Ethylbenzene                | 1,2,3-Trichloropropane    |
|   | 4-Chlorotoluene      | Methyl-t-butyl Ether (MTBE) | 1,2,4-Trimethylbenzene    |
|   | Dibromochloromethane | Naphthalene                 | 1,3,5-Trimethylbenzene    |
|   | Dibromomethane       | iso-Propylbenzene           | Vinyl Chloride            |
|   | 1,2-Dichlorobenzene  | n-Propylbenzene             | m,p-Xylene                |
|   | 1,3-Dichlorobenzene  | iso-Propyltoluene           | o-Xylene                  |
|   | 1,4-Dichlorobenzene  | Styrene                     | Xylenes (m,p,o)           |
|   |                      |                             |                           |
| <b>Polychlorinated Biphenyls (PCB)</b>                            | Aroclor 1016         | Aroclor 1242                | Aroclor 1260              |
|   | Aroclor 1221         | Aroclor 1248                | Aroclor 1262              |
|   | Aroclor 1232         | Aroclor 1254                | Aroclor 1268              |
|   |                      |                             |                           |
| <b>Glycols</b>  | Ethylene glycol      | Diethylene glycol           | Tetraethylene glycol      |
|   | Propylene glycol     | Triethylene glycol          |                           |
|   |                      |                             |                           |
| <b>Alcohols</b>   | Methanol             | Propanol                    | Butanol                   |
|   | Ethanol              | Isopropanol                 | Pentanol                  |
|   |                      |                             |                           |
| <b>Chlorophenols</b>  | Cresols              | 2,6-Dichlorophenol          | 2,3,4,6-Tetrachlorophenol |
|   | 2-Chlorophenol       | 2,4,5-Trichlorophenol       | 4-Chloro-3-methylphenol   |
|   | 2,4-Dichlorophenol   | 2,4,6-Trichlorophenol       | Pentachlorophenol         |
|   |                      |                             |                           |
| <b>Alkalonamines</b>  | Diethanolamine       | Ethanolamine                | Diethylethanolamine       |
|   | Diisopropanolamine   | Methyldiethanolamine        |                           |
|   |                      |                             |                           |
| <b>Sterilants</b>   | Atrazine             | Diuron                      | Simazine                  |
|   | Bromacil             | Linuron                     | Tebuthiuron               |

## WATER

### ORGANICS IN WATER (Continues)

|   |   |   |
|---|---|---|
| <b>Polycyclic Aromatic<br/>Hydrocarbons (PAH) &amp;<br/>Alkylated PAH</b> | Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benzo(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b,j,k)fluoranthene<br>Benzo(g,h,i)perylene<br>Biphenyl<br>Chrysene<br>Dibenzo(a,h)anthracene<br>Dibenzo thiophene<br>Fluoranthene<br>Fluorene<br>Indeno(1,2,3-c,d)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Retene | C1-Acenaphthenes<br>C1-Benzo(a)anthracenes/Chrysenes<br>C2-Benzo(a)anthracenes/Chrysenes<br>C1-Benzofluoranthenes/Pyrenes<br>C2-Benzofluoranthenes/Pyrenes<br>C1-Biphenyls<br>C2-Biphenyls<br>C1-Dibenzothiophenes<br>C2-Dibenzothiophenes<br>C3-Dibenzothiophenes<br>C4-Dibenzothiophenes<br>C1-Fluoranthenes//Pyrenes<br>C2-Fluoranthenes//Pyrenes<br>C3-Fluoranthenes//Pyrenes<br>C1-Fluorenes<br>C2-Fluorenes<br>C3-Fluorenes<br>C1-Naphthalenes<br>C2-Naphthalenes<br>C3-Naphthalenes<br>C4-Naphthalenes<br>C1-Phenanthrenes/Anthracenes<br>C2-Phenanthrenes/Anthracenes<br>C3-Phenanthrenes/Anthracenes<br>C4-Phenanthrenes/Anthracenes |
| <b>Creosote related target PAH &amp;<br/>PCP</b>                          | Acenaphthene<br>Acenaphthylene<br>Benzo(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b,j,k)fluoranthene<br>Benzo(g,h,i)perylene<br>Carbazole<br>Dibenzo(a,h)anthracene<br>Dibenzofuran<br>Fluoranthene   | Fluorene<br>Indeno(1,2,3-c,d)pyrene<br>Naphthalene<br>C1-Naphthalenes<br>C2-Naphthalenes<br>Pentachlorophenol<br>Phenanthrenes/Anthracenes<br>C1-Phenanthrenes/Anthracenes<br>Pyrene  |

## WATER

### DRINKING WATER

|   |   |   |                             |
|---|---|---|-----------------------------|
| <b>Water Potability Package 2</b>                     | pH                                      | Manganese                                 | Hardness                    |
|   | EC                                      | Carbonate                                 | Total Dissolved Solids      |
|   | Cations                                 | Bicarbonate                               | Turbidity                   |
|   | Anions                                  | Hydroxide                                 | Color True                  |
|   | Iron                                    | Alkalinity                                |                             |
| <b>Water Potability Packages 1 &amp; 3</b>            | See page 12 for complete description    |   |                             |
| <b>Total Metals for Drinking Water</b>                | Total Aluminum                          | Total Cadmium                             | Total Manganese             |
|   | Total Antimony                          | Total Chromium                            | Total Mercury               |
|   | Total Arsenic                           | Total Copper                              | Total Selenium              |
|   | Total Barium                            | Total Iron                                | Total Uranium               |
|   | Total Boron                             | Total Lead                                | Total Zinc                  |
| <b>Non-Routine Package for Drinking Water</b>         | Ammonia<br>Bromate                      | Cyanide<br>Sulphide (as H <sub>2</sub> S) | Total Organic Carbon        |
| <b>Volatile Organic Compounds for Drinking Water</b>  | Benzene                                 | 1,4-Dichlorobenzene                       | Tetrachloroethene           |
|   | Carbon Tetrachloride                    | 1,2-Dichloroethane                        | Vinyl Chloride              |
|   | Chlorobenzene                           | Ethylbenzene                              | Xylenes                     |
|   | 1,2-Dichlorobenzene                     |   |                             |
| <b>Chlorophenols for Drinking Water</b>               | 2,4-Dichlorophenol<br>Pentachlorophenol | 2,4,6-Trichlorophenol                     | 2,3,4,6-Tetrachlorophenol   |
| <b>Pesticides &amp; Herbicides for Drinking Water</b> | Atrazine + Metabolites                  | Diclofop-methyl                           | Metribuzin                  |
|   | Benzo(a)pyrene                          | Diuron                                    | Nitritotriacetic Acid (NTA) |
|   | Bromoxynil                              | Dimethoate                                | Picloram                    |
|   | Chlorpyrifos                            | Glyphosate                                | Simazine                    |
|   | Cyanazine                               | Malathion                                 | Terbufos                    |
|   | Diazinon                                | Methoxychlor                              | Triallate                   |
|   | Dicamba                                 | Metolachlor                               | Trifluralin                 |
|   | 2,4-D                                   |   |                             |
| <b>Drinking Water Code of Practice Package</b>        | Potability 2 package                    | DW Non-Routine                            | DW VOC's                    |
|   | DW Dissolved or Total Metals            | DW Chlorophenols                          | DW Pesticides & Herbicides  |
| <b>Trihalomethanes (THM)</b>                          | Chloroform                              | Dibromochloromethane                      | Total Trihalomethanes       |
|   | ChloroDibromomethane                    | Bromoform                                 |                             |
| <b>Additional DW parameters</b>                       | Total Residual Chlorine                 | UV Absorbance (254 nm)                    | Microcystin LR              |

**WATER**

**COAL-BED METHANE (CBM) WATER/GAS TESTING**

|  |   |  |   |
|--|---|--|---|
| <b>Water Potability Package 2</b>              | pH<br>EC<br>Cations<br>Anions<br>Iron   | Manganese<br>Carbonate<br>Bicarbonate<br>Hydroxide<br>Alkalinity   | Hardness<br>Total Dissolved Solids<br>Turbidity<br>Color True   |
| <b>CBM Dissolved Metals</b>                    | Dissolved Aluminum<br>Dissolved Antimony<br>Dissolved Arsenic<br>Dissolved Barium<br>Dissolved Beryllium<br>Dissolved Bismuth<br>Dissolved Boron<br>Dissolved Cadmium<br>Dissolved Chromium | Dissolved Cobalt<br>Dissolved Copper<br>Dissolved Lead<br>Dissolved Lithium<br>Dissolved Mercury<br>Dissolved Molybdenum<br>Dissolved Nickel<br>Dissolved Selenium | Dissolved Silver<br>Dissolved Strontium<br>Dissolved Thallium<br>Dissolved Tin<br>Dissolved Titanium<br>Dissolved Uranium<br>Dissolved Vanadium<br>Dissolved Zinc |
| <b>Total FeMn</b>                              | Total Iron  | Total Manganese  |   |
| <b>Coliforms</b>                               | Total Coliforms   | Fecal Coliforms  |   |
| <b>IRB/SRB</b>                                 | Iron Reducing Bacteria  | Sulphate Reducing Bacteria   |   |
| <b>Dissolved Gas in water</b>                  | Methane<br>Ethane   | Propane<br>Butane  | Hexane  |
| <b>CBM Gas Analysis (sample in Tedlar bag)</b> | Hydrogen<br>Helium<br>Oxygen<br>Nitrogen<br>Carbon Dioxide  | Hydrogen Sulphide<br>Methane<br>Ethane<br>Propane<br>n-Butane  | iso-Butane<br>n-Pentane<br>iso-Pentane<br>Hexane  |
| <b>Carbon Isotope</b>                          | Carbon Isotope from CO <sub>2</sub> , C <sub>1</sub> , C <sub>2</sub> , C <sub>3</sub> , iC <sub>4</sub> and nC <sub>4</sub>  |  |   |
| <b>CBM Package</b>                             | Water Potability 2<br>CBM Dissolved Metals<br>Total FeMn  | Coliforms<br>IRB/SRB   | Methane in water<br>CBM Gas Analysis  |

## TURNAROUND TIME & SAMPLE STORAGE

Tests can be requested according to the desired turn-around time as follows (working/business days):

|           | <u>Drilling Waste and Hydrometers</u> | <u>Soil &amp; Water</u> |
|-----------|---------------------------------------|-------------------------|
| Regular   | 48 hours                              | 3 - 5 days*             |
| Rush      | 24 hours                              | 48 hours                |
| Priority  | 12 hours**                            | 24 hours                |
| Emergency | Weekends and holidays                 | Weekends and holidays   |

Due to the nature of some tests, 'Rush' analysis may not always be possible. **Coordination with your Project Coordinator prior to submission of the samples to the lab is strongly advised.**

The following additional charges will apply for rush analysis:

|                  |             |
|------------------|-------------|
| <b>Rush</b>      | <b>50%</b>  |
| <b>Priority</b>  | <b>100%</b> |
| <b>Emergency</b> | <b>200%</b> |

Sample handling and disposal fee: **\$3** will be applied to samples; compositing of samples is charged separately. All samples will be stored until disposal date (two months from the date received) unless other instructions are received. Additional charges may apply to extend sample storage.

**All prices are subject to change without notice.**

**Please call for a quotation for parameters that are not listed in the price book.**

Chain of Custody and Supply Request forms are available at our website: [www.kaizenlab.ca](http://www.kaizenlab.ca)

\*IRB/SRB: 10 days; Pesticides: 14 days; Alkylated PAH's 15 days; BOD/CBOD received on Mondays: 6 days; Open Scans: 8 days; Dioxins & Furans: 15 days  
Isotope Analysis: 15 days; Crypto/Giardia: 7 days.

\*\*If the sample is received in the afternoon, the results may be ready until the following morning, as early as possible.

