

SOIL/SOLID WASTE

SOIL SALINITY

| | | | |
|-------------------------------|-------------------------|-----------|----------|
| SAR | Sodium Adsorption Ratio | | |
| Basic Salinity | EC | Calcium | |
| | pH | Magnesium | |
| | SAR | Potassium | |
| | Saturation Percentage | Sodium | |
| Detailed Soil Salinity | EC | Calcium | Chloride |
| | pH | Magnesium | Sulphate |
| | SAR | Potassium | |
| | Saturation Percentage | Sodium | |

METALS IN SOLIDS

| | | | |
|--|-----------------------|------------------|-----------|
| CCME Metals - Alberta Tier 1 Metals | Antimony | Chromium (total) | Selenium |
| | Arsenic | Cobalt | Silver |
| | Barium | Copper | Strontium |
| | Beryllium | Lead | Thallium |
| | Boron (HWS) | Mercury | Tin |
| | Cadmium | Molybdenum | Vanadium |
| | Chromium (hexavalent) | Nickel | Zinc |
| EUB Guideline-50 Metals | Boron (HWS) | Copper | Vanadium |
| | Cadmium | Nickel | Zinc |
| | Chromium | Lead | |
| Extractable Barium | Barium by fusion | | |

NUTRIENTS IN SOIL

| | | | |
|-----------------------|----------------------------|----------------------------|---------------------|
| Available NPK | Available Nitrate Nitrogen | Available Phosphorus | Available Potassium |
| Available NPKS | Available NPK | Available Sulphate Sulphur | |
| Available NH4 | Available Ammonium | | |

OTHER INORGANIC PARAMETERS IN SOIL/SOLIDS

| | | | |
|-------------------|-------------------------|----------------------|------------------|
| Cyanide (total) | Sulphide | Total Nitrogen | Total Phosphorus |
| Elemental Sulphur | Total Carbon | Total Organic Carbon | Total Sulphur |
| Phenol | Total Kjeldahl Nitrogen | | |

SOIL/SOLID WASTE

ORGANICS IN SOLIDS

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

SOIL/SOLID WASTE

ORGANICS IN SOLIDS (continues)

| | | | |
|---|---|---|---|
| Volatile Organic Compounds (includes Alberta Tier 1 VOC's) | 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) |
| | 1,1-Dichloroethane | | |
| | Glycols | Ethylene glycol Propylene glycol | Diethylene glycol Triethylene glycol |
| Alcohols | Methanol Ethanol | Propanol Isopropanol | Butanol Pentanol |
| Solvent Scan | Acetone Benzene n-Butyl Alcohol Carbon Disulfide Cresols & Cresylic Acid Cyclohexanone | Ethyl Acetate Ethylbenzene Ethyl Ether Isobutanol Methanol Methyl Ethyl Ketone | Nitrobenzene 2-Nitropropane Pyridine Toluene Xylene |
| Amines | Diethanolamine Diisopropanolamine | Ethanolamine Methyldiethanolamine | Triethanolamine |
| Sterilants | Atrazine Bromacil | Diuron Linuron | Simazine Tebuthiuron |

SOIL/SOLID WASTE

ORGANICS IN SOLIDS (continues)

| | |
|---|--|
| Total Purgeable Hydrocarbons | Total Purgeable Hydrocarbons (C6-C10) |
| Total Extractable Hydrocarbons | Total Extractable Hydrocarbons (C11-C50) |
| Total Petroleum Hydrocarbons | Total Purgeable Hydrocarbons + Total Extractable Hydrocarbons - (C6-C50) |
| Volatile Petroleum Hydrocarbons (VPH) BC Criteria | Volatile Petroleum Hydrocarbons (C6-C10) |
| Extractable Petroleum Hydrocarbons (EPH) BC Criteria | Light Extractable Petroleum Hydrocarbons (C10-C19) Heavy Extractable Petroleum Hydrocarbons (C19-C32) |
| BTEX, TVH, LEPH, HEPH - BC Criteria (PAH Adjusted) | BTEX Volatile Petroleum Hydrocarbons (C6-C10) Light Extractable Petroleum Hydrocarbons (C10-C19) Heavy Extractable Petroleum Hydrocarbons (C19-C32) PAH (see list on Page 2) |
| Oil and Grease | Oil and Grease (Acetone-Hexane extraction) |
| Mineral Oil and Grease | Mineral Oil and Grease (Includes silica gel clean-up) |
| VOC Open Scan | Open Scan-Volatile Organic by GC/MS for unknown compounds |
| SVOC Open Scan | Open Scan-Extractable Organic by GC/MS for unknown compounds |
| Dioxins & Furans | Dioxins & Furans by HRGC/MS |
| EOX | Extractable Organic Halides |
| TOX | Total Organic Halides |

SOIL/SOLID WASTE

LANDFILL PARAMETERS

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

DRILLING WASTE

| | | | |
|--|-------------------------------|-----------------------------------|--------------------------------------|
| Microtox | Microtox | | |
| Microtox & Charcoal Treatment | Charcoal Treatment & Microtox | | |
| Microtox Threshold | Microtox Threshold Study | | |
| General Waste Analysis | pH EC Chloride | Particle Size Distribution SAR | Specific Gravity TDS (Calculated) |

SOIL TEXTURE

| | | | |
|--|---|--------|--------|
| Soil Texture-Hydrometer | Clay % | Silt % | Sand % |
| Soil Texture-Hydrometer with loading rate | Hydrometer Loading rate for Septic Systems | | |
| Texture | Soil Texture-Hand texture | | |

PHYSICAL PARAMETERS IN SOLIDS

| | | | |
|------------------|--------------------------|------------------|-------------------------|
| Moisture Content | Cation Exchange Capacity | Sample Composite | Asbestos |
| Bulk Density | Hydraulic Conductivity | Atterberg Limit | XRD - X-ray Diffraction |
| Specific Gravity | Spontaneous combustion | Rope Burn Test | |

WATER/WASTE WATER

WATER POTABILITY

| | | | |
|-----------------------------------|---|--|--|
| Cations | Calcium Sodium | Magnesium | Potassium |
| Anions | Chloride Fluoride | Nitrate-N Nitrite-N | Sulphate Phosphate |
| Water Potability Package 1 | pH EC Cations Anions | Dissolved Iron Carbonate Bicarbonate Alkalinity | Hardness Total Dissolved Solids Turbidity (visual) Color (visual) |
| Water Potability Package 2 | pH EC Cations Anions Dissolved Iron | Dissolved Manganese Carbonate Bicarbonate Hydroxide Alkalinity | Hardness Total Dissolved Solids Turbidity Color True |

Water Treatment Plant Packages

| | | | |
|--|---|--|--|
| Basic Water Treatment Plant (WTP) Package | Calcium Magnesium Sodium Nitrate-N | Nitrite-N Nitrite-Nitrate-N Alkalinity | Hardness Total Dissolved Solids Turbidity |
| WTP - Raw Package | Basic WTP Package | Ammonia | TOC |
| WTP - Treated Package | Basic WTP Package Fluoride | Ammonia | TOC |
| Basic Water Testing Package | pH EC Sodium Calcium Magnesium Potassium | Iron Sulphate Fluoride Chloride Carbonate Bicarbonate | Nitrite Nitrate Orthophosphate Alkalinity Hardness Total Dissolved Solids |

WATER/WASTE WATER

WATER SALINITY

| | | | |
|--------------------------|----------------------|---------------------------------|-----------------------------|
| Basic Salinity | pH EC Chloride | Calcium Magnesium | Sodium SAR |
| Detailed Salinity | pH EC Chloride | Sulphate Sodium Magnesium | Calcium Potassium SAR |

METALS IN WATER

| | | | |
|--|--|---|---|
| Dissolved Metals | Dissolved Aluminum Dissolved Antimony Dissolved Arsenic Dissolved Barium Dissolved Beryllium Dissolved Boron Dissolved Cadmium Dissolved Chromium | Dissolved Cobalt Dissolved Copper Dissolved Iron Dissolved Lead Dissolved Manganese Dissolved Molybdenum Dissolved Nickel Dissolved Selenium | Dissolved Silver Dissolved Strontium Dissolved Thallium Dissolved Tin Dissolved Uranium Dissolved Vanadium Dissolved Zinc |
| Dissolved Metals Including Mercury | Dissolved Metals | Dissolved Mercury | |
| Al Cu Pb Package | Dissolved Aluminum | Dissolved Copper | Dissolved Lead |
| Dissolved Metals for Drinking Water | Dissolved Aluminum Dissolved Antimony Dissolved Arsenic Dissolved Barium Dissolved Boron | Dissolved Cadmium Dissolved Chromium Dissolved Copper Dissolved Iron Dissolved Lead | Dissolved Manganese Dissolved Mercury Dissolved Selenium Dissolved Uranium Dissolved Zinc |
| Alberta Tier1 Dissolved Metals | Dissolved Aluminum Dissolved Antimony Dissolved Arsenic Dissolved Barium Dissolved Boron Dissolved Cadmium | Dissolved Chromium Dissolved Copper Dissolved Iron Dissolved Lead Dissolved Manganese Dissolved Mercury | Dissolved Nickel Dissolved Selenium Dissolved Silver Dissolved Uranium Dissolved Zinc |
| CCME Metals | Dissolved Arsenic Dissolved Barium Dissolved Cadmium Dissolved Chromium Dissolved Cobalt | Dissolved Copper Dissolved Lead Dissolved Mercury Dissolved Molybdenum Dissolved Nickel | Dissolved Selenium Dissolved Silver Dissolved Tin Dissolved Zinc |

WATER/WASTE WATER

METALS IN WATER (Continues)

| | | | |
|--|-----------------|------------------|-----------------|
| Total Metals | 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 | |
| Total Metals Including Mercury | Total Metals | | |
| | Total Mercury | | |
| Total Metals for Drinking Water | 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 |
| Alberta Tier1 Total Metals | 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 | |
| CCME Metals | 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 | |
| Total Metals Full Scan | 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/WASTE WATER

ORGANICS IN WATER

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

WATER/WASTE WATER

ORGANICS IN WATER (Continues)

| | | | |
|---|----------------------|-----------------------------|---------------------------|
| Volatile Organic Compounds (includes Alberta Tier 1 VOC's) | 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) |
| | 1,1-Dichloroethane | | |
| Poly Chlorinated Biphenyls (PCB) | Aroclor 1016 | Aroclor 1242 | Aroclor 1260 |
| | Aroclor 1221 | Aroclor 1248 | Aroclor 1262 |
| | Aroclor 1232 | Aroclor 1254 | Aroclor 1268 |
| Glycols | Ethylene glycol | Diethylene glycol | Tetraethylene glycol |
| | Propylene glycol | Triethylene glycol | |
| Alcohols | Methanol | Propanol | Butanol |
| | Ethanol | Isopropanol | Pentanol |
| Chlorophenols | 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 |
| Amines | Diethanolamine | Ethanolamine | Triethanolamine |
| | Diisopropanolamine | Methyldiethanolamine | |
| Sterilants | Atrazine | Diuron | Simazine |
| | Bromacil | Linuron | Tebuthiuron |

WATER/WASTE WATER

DRINKING WATER

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

WATER/WASTE WATER

COAL-BED METHANE (CBM) WATER/GAS TESTING

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

WATER/WASTE WATER

MICROBIOLOGY IN WATER

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

TOXICITY TESTING IN LIQUID WASTE

| | | |
|----------|--------------------------|-------------------------------|
| Microtox | Microtox Threshold Study | Charcoal treatment & Microtox |
|----------|--------------------------|-------------------------------|

OTHER WATER/WASTE WATER PARAMETERS

| | | | |
|---------------------------|--------------------------|-----------------------------|----------------------------|
| Ammonium | Cyanide | Phenol (total)-colorimetric | Total Kjeldhal Nitrogen |
| BOD | Dissolved Organic Carbon | Reactive Silica-Colorimetry | Total Organic Carbon |
| CBOD | Dissolved Oxygen | Sulphide | Total Phosphorus |
| Bromate | Dissolved Phosphorus | Surfactants | Total Suspended Solids |
| Bromide | Oil and Grease | Total Carbon | UV Absorbance (254 nm) |
| COD | Methyl Mercury | Total Dissolved Solids | UV Transmittance (254 nm) |
| Chlorine (total residual) | Microcystin LR | Total Kjeldhal Nitrogen | XRD for Unknown Inorganics |

TURNAROUND TIME & SAMPLE STORAGE

Tests can be requested according to the desired turn-around time as follows:

| | |
|------------------|---|
| Regular | Five days, except Microtox and Hydrometers (3 days) and Pesticides (10 days) |
| Rush | Within 3 days (72 hours) |
| Priority | Next day (48 hours) |
| Emergency | Same Day, Weekends and Holidays (24 hours) |

Due to the nature of some tests, 'Rush' analysis may not always be possible.

All samples will be stored until disposal date (one month from the date received) unless other instructions are received.