

**Below information is for AB region only**

**Samples must be kept cool (<10°C) from time of sampling until delivery to BV**

| Analysis                                                               | Sample Bottle                                | Preservative                                                                                   | Hold Time <sup>2</sup>                                        |
|------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>WATER</b>                                                           |                                              |                                                                                                |                                                               |
| <b>INORGANIC</b>                                                       |                                              |                                                                                                |                                                               |
| Routine Water Package <sup>1</sup>                                     | 250 mL Plastic                               | N/A                                                                                            | 3 Days/15 min for pH                                          |
|                                                                        | 125 mL Plastic<br>(Dissolved Metals)         | 1 mL 50% HNO <sub>3</sub><br>Field Filter                                                      | 6 Months                                                      |
| EC, Silica, Bromide                                                    | 250 mL Plastic                               | N/A                                                                                            | 28 Days                                                       |
| Oxalic, Glycolic, Lactic, Light Organic Acids                          | 250 mL Plastic                               | N/A                                                                                            | 7 Days                                                        |
| pH                                                                     | 250 mL Plastic                               | N/A                                                                                            | 15 Minutes                                                    |
| DO                                                                     | 300 mL Clear Glass or<br>Plastic BOD bottles | MnSO <sub>4</sub> / Alk. Iodide<br>Pour Contents of<br>Pillows into Bottle<br>(Zero Headspace) | 8 Hours                                                       |
| DO (electrode)                                                         | 250 mL Plastic                               | N/A                                                                                            | 15 Minutes                                                    |
| Colour, Ortho-PO <sub>4</sub> , NO <sub>2</sub> , NO <sub>3</sub>      | 250 mL Plastic                               | N/A                                                                                            | 3 Days (UP)                                                   |
| DIC, TIC                                                               | 250 mL Plastic                               | N/A                                                                                            | 14 Days                                                       |
| Amines                                                                 | 125 mL Plastic                               | 2 mL 50% H <sub>2</sub> SO <sub>4</sub> <sup>4</sup>                                           | 14 Days                                                       |
| Chlorine (Free/Total) Chloramines                                      | 250 mL Plastic                               | N/A                                                                                            | Immediate <sup>6</sup>                                        |
| TDS, TSS                                                               | 250 mL Plastic                               | N/A                                                                                            | 7 Days                                                        |
| Turbidity                                                              | 250 mL Plastic                               | N/A                                                                                            | 3 Days Protect from Light                                     |
| Chlorite                                                               | 150 mL Plastic                               | 1.5 mL EDA                                                                                     | 28 Days (P)<br>Immediate <sup>6</sup> (UP)                    |
| Total N, Total P                                                       | 125 mL Plastic                               | 2 mL 50% H <sub>2</sub> SO <sub>4</sub> <sup>4</sup>                                           | 3 Days (UP), 28 Days (P)                                      |
| Ammonia (NH <sub>4</sub> )                                             | 40 mL clear glass vial                       | 0.17 mL H <sub>2</sub> SO <sub>4</sub> <sup>4</sup>                                            | 3 Days (UP), 28 Days (P)                                      |
| TOC/DOC <sup>3</sup>                                                   | 125 mL Plastic                               | 2 mL 50% H <sub>2</sub> SO <sub>4</sub> <sup>4</sup>                                           | 3 Days (UP), 28 Days (P)                                      |
| Chemical Oxygen Demand - COD                                           | 125 mL Plastic                               | 2 mL 50% H <sub>2</sub> SO <sub>4</sub> <sup>4</sup>                                           | 3 Days (UP), 28 Days (P)                                      |
| Metals Scan <sup>3,8</sup>                                             | 120 mL Plastic                               | 1 mL 50% HNO <sub>3</sub> <sup>4</sup>                                                         | 6 Months                                                      |
| Mercury <sup>3,8</sup>                                                 | 40 mL Clear Glass                            | 1 mL 50% HCl <sup>4</sup>                                                                      | 28 Days                                                       |
| Hexavalent Chromium - Cr (VI)                                          | 60 mL Plastic                                | 1 mL 10N NaOH <sup>4</sup>                                                                     | 24 Hours (UP), 28 Days (P)                                    |
| Iron(Ferric-Fe <sup>3+</sup> /Ferrous-Fe <sup>2+</sup> )               | 250 mL Amber Glass                           | 10 mL 50% HCl <sup>4</sup><br>(Field Filter )                                                  | 48 Hours                                                      |
| Phenolics (4-AAP)                                                      | 125 mL Plastic                               | 2 mL 50% H <sub>2</sub> SO <sub>4</sub> <sup>4</sup>                                           | 28 Days                                                       |
| Cyanide (WAD / SAD)                                                    | 125 mL Plastic                               | 0.5 mL 10N NaOH <sup>4</sup>                                                                   | 14 Days                                                       |
| Free Cyanide                                                           | 150 mL Opaque Plastic                        | 4±2°C with 1.2mL of<br>10N NaOH per 150<br>mL of sample.                                       | 24 Hours (UP), 14 Days (P)                                    |
| Sulphide                                                               | 120 mL Plastic                               | 0.5 mL 2N ZnAc/<br>0.5mL 10N NaOH <sup>4</sup>                                                 | 7 Days                                                        |
| Sulphite                                                               | 100 mL Plastic                               | 2 mL of glycerol <sup>4</sup>                                                                  | 28 Days (P)<br>Immediate <sup>6</sup> (UP)                    |
| Total E. Coli & Coliforms, Fecal Coliforms, HPC, SRB, IRB <sup>5</sup> | 250 mL Plastic                               | Sodium Thiosulfate <sup>4</sup>                                                                | 30 Hours (T. Coliform & E.coli)<br>24 Hours (All other tests) |
| Biological Oxygen Demand - BOD                                         | 500 mL Plastic                               | N/A                                                                                            | 72 Hours                                                      |
| Chlorophyll A                                                          | 1 L Plastic                                  | Minimize Light<br>Exposure                                                                     | 48 Hours                                                      |
|                                                                        | 1 L Plastic                                  | Field filtered with<br>cellulose Nitrate filter<br>& frozen <sup>7</sup>                       | 28 Days                                                       |
| Flashpoint                                                             | 3 x 40 mL Clear Glass                        | N/A                                                                                            | 14 Days                                                       |

| Analysis                                                                              | Sample Bottle                      | Preservative                                        | Hold Time                |
|---------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------|--------------------------|
| <b>WATER</b>                                                                          |                                    |                                                     |                          |
| <b>ORGANIC</b>                                                                        |                                    |                                                     |                          |
| F2, F2-F4, PAH, Sulfolanes                                                            | 1 X 100 mL Amber Glass             | NaHSO <sub>4</sub> <sup>4</sup>                     | 7 Days (UP), 14 Days (P) |
| Target & Alkylated PAHs                                                               | 1 X 250 mL Amber Glass             | NaHSO <sub>4</sub> <sup>4</sup>                     | 7 Days (UP), 14 Days (P) |
| Target & Alkylated PAHs (Low Level)                                                   | 2 x 1 L Amber Glass                | NaHSO <sub>4</sub> <sup>4</sup>                     | 7 Days (UP), 14 Days (P) |
| VOCs, BTEX, F1, THM                                                                   | 1 X 40 mL Clear Glass              | NaHSO <sub>4</sub> <sup>4</sup>                     | 14 Days                  |
| Phenoxy Herbicides, Diagnostic Pesticide Scan                                         | 1 L Amber Glass                    | N/A                                                 | 7 Days                   |
| Semi-Volatile Phenol (GC/MS)                                                          | 1 X 500 mL Amber Glass             | NaHSO <sub>4</sub> <sup>4</sup>                     | 14 Days                  |
| PCB                                                                                   | 1 X 500 mL Amber Glass             | N/A                                                 | 7 Days                   |
| Naphthenic Acids                                                                      | 1 X 250 mL Amber Glass             | N/A                                                 | 14 Days                  |
| Glycol, Alcohol                                                                       | 1 X 40 mL Clear Glass              | NaHSO <sub>4</sub> <sup>4</sup>                     | 14 Days                  |
| OGIR/TPHIR/OGH (Gravimetric)                                                          | 250 mL Amber Glass                 | 1ml 50% H <sub>2</sub> SO <sub>4</sub> <sup>4</sup> | 14 Days                  |
| OGHCLL                                                                                | 2 x 1 L Amber Glass                | 1ml 50% H <sub>2</sub> SO <sub>4</sub> <sup>4</sup> | 14 Days                  |
| RFA                                                                                   | 1 X 250 mL Amber Glass             | N/A                                                 | 7 Days                   |
| <b>SOIL</b>                                                                           |                                    |                                                     |                          |
| <b>INORGANIC</b>                                                                      |                                    |                                                     |                          |
| Chloride, EC, Particle Size, Cr6, pH, Elemental Sulphur                               | 1 L Bag                            | N/A                                                 | 30 Days                  |
| TOC, FOC, Total Nitrogen                                                              | 1 L Bag                            | N/A                                                 | 28 Days                  |
| Cyanide                                                                               | 1 L Bag                            | N/A                                                 | 14 Days                  |
| Metals, Sodium Absorption Ratio, Hot Water Soluble Boron                              | 1 L Bag                            | N/A                                                 | 180 Days                 |
| Mercury                                                                               | 1 L Bag                            | N/A                                                 | 28 Days                  |
| Spontaneous Combustion                                                                | 4 x 1 L Bag                        | N/A                                                 | 90 Days                  |
| Sulphide                                                                              | 125 mL Jar                         | N/A                                                 | 7 Days                   |
| FlashPoint                                                                            | 1 x 125 mL Jar                     | Zero Headspace                                      | 14 Days                  |
| <b>SOIL</b>                                                                           |                                    |                                                     |                          |
| <b>ORGANIC</b>                                                                        |                                    |                                                     |                          |
| BTEX/F1/VOC                                                                           | 1 x 125 mL Jar<br>+ 1 x MeOH vials | N/A                                                 | 40 Days <sup>9</sup>     |
| F2-F4, PAH                                                                            | 1 x 125 mL Jar                     | N/A                                                 | 14 Days                  |
| Organic Semi-Volatiles                                                                | 1 x 125 mL Jar                     | N/A                                                 | 14 Days                  |
| TCLP BTEX                                                                             | 1 x 125 mL Jar                     | Zero Headspace                                      | 14 Days                  |
| Basic Class II Landfill<br>TCLP BTEX / FLASHPOINT / pH / TCLP<br>Metals / Free Liquid | 2 x 125 mL Jar<br>1 x 1L Bag       | Zero Headspace in jars                              | 14 Days                  |



| Analysis                                                                                                                                                                                                                                                  | Sample Bottle                                             | Preservative | Hold Time |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------|-----------|
| <b>WATER</b>                                                                                                                                                                                                                                              |                                                           |              |           |
| <b>ECOTOX</b>                                                                                                                                                                                                                                             |                                                           |              |           |
| Fathead minnow 7d survival & growth                                                                                                                                                                                                                       | 7 X 2 L Plastic (Zero Headspace)                          | N/A          | 3 Days    |
| Ceriodaphnia 7d survival & reproduction                                                                                                                                                                                                                   | 8 X 1 L Plastic (Zero Headspace)                          | N/A          | 3 Days    |
| Daphnia magna Screen                                                                                                                                                                                                                                      | 1 X 1 L Plastic (Zero Headspace & Absolute minimum 500mL) | N/A          | 5 Days    |
| Daphnia magna LC50                                                                                                                                                                                                                                        | 1 X 1 L Plastic (Zero Headspace & Absolute minimum 500mL) | N/A          | 5 Days    |
| Rainbow trout 96 hr LC50                                                                                                                                                                                                                                  | 2 X 20 L Plastic (Zero Headspace)                         | N/A          | 5 Days    |
| Rainbow trout 96 hr Screen                                                                                                                                                                                                                                | 1 X 20 L Plastic (Zero Headspace)                         | N/A          | 5 Days    |
|                                                                                                                                                                                                                                                           |                                                           |              |           |
| <sup>1</sup> Routine water Package: ALK,HCO <sub>3</sub> ,CO <sub>3</sub> ,pH,EC,OH,Ion Balance, Sum (Ca, Mg, Na, K),Fe, Mn,Cl,SO <sub>4</sub> ,NO <sub>2</sub> ,NO <sub>3</sub> ,TDS (Calc.),Hardness (Calc.)                                            |                                                           |              |           |
| <sup>2</sup> Hold time for when multiple analysis are listed is based on the shortest hold time of the group                                                                                                                                              |                                                           |              |           |
| <sup>3</sup> Dissolved parameters require field filtration prior to filling sample container. If field filtration is not possible, please submit extra raw sample. Preservative will need to be removed and bottle rinsed before filling with raw sample. |                                                           |              |           |
| <sup>4</sup> Preservative is pre-charged in the sample bottle and/or vial                                                                                                                                                                                 |                                                           |              |           |
| <sup>5</sup> Please provide 2 bottles if multiple analyses are required                                                                                                                                                                                   |                                                           |              |           |
| <sup>6</sup> Analysis must be done ASAP upon arrival at the lab                                                                                                                                                                                           |                                                           |              |           |
| <sup>7</sup> Volume of sample filtered required                                                                                                                                                                                                           |                                                           |              |           |
| <sup>8</sup> Total metals received at the lab unpreserved will be required to sit for 16 hours prior to subsampling and analyzing                                                                                                                         |                                                           |              |           |
| <sup>9</sup> A Jar is required for moisture content                                                                                                                                                                                                       |                                                           |              |           |