

# SAMPLING PROCEDURES AND REQUIREMENTS

## Alberta

# WATER

ORGANICS				
Parameter	Container Type	Holding Time	Min Amt	Preservative
BTEX/F1	AG, NH	7 days	3 X 40 mL	NaHSO <sub>4</sub>
F2-F4	AG	14 days	2 X 250 mL	NA
BTEX/F1-F2	See above - requires both bottle types			
TEH (C10-C32)	AG	14 days	2 X 250 mL	NA
TPGH (C5-C10)	AG, NH	7 days	3 X 40 mL	NaHSO <sub>4</sub>
VOC Scan	AG, NH	7 days	3 X 40 mL	NaHSO <sub>4</sub>
PAH Scan	AG, NH	14 days	1L	NA
PCB Scan	AG, NH	7 days	1 L	NA
Oil & Grease by IR	AG	28 days	250 mL	HCl
Sterilant Scan	AG	14 days	1 L	NA
Alcohol Scan	AG, NH	14 days	250 mL	NA
Amine Scan	AG	7 days	1 L	NA
Glycol Scan	AG	14 days	1 L	NA
EOX	AG	14 days	1 L	NA
TOX	AG	14 days	1 L	NA
BTEXS/VPH/VH	AG, NH	14 days	3 X 40 mL	NaHSO <sub>4</sub>
EPH/LEPH/HEPH/PAH	AG, NH	7 days	1 L	NA
Methane	AG, NH	1 days	3 X 40 mL	NA

INORGANICS				
Parameter	Container Type	Holding Time	Min Amt	Preservative
Detailed Salinity - AB	PB	14 days	400 mL	NA
Ammonia	PB	28 days	50 mL	H <sub>2</sub> SO <sub>4</sub>
Dissolved Oxygen	BOD Bot.	6 hours	200 mL	<sup>2</sup> see below
Hexavalent Chromium	PB	24 hours	50 mL	NaOH
Cyanide	PB	14 days	50 mL	NaOH
Mercury	PB	28 days	50 mL	<sup>1</sup> HNO <sub>3</sub>
CCME/ABT1 Metals (Diss)	PB	6 months	50 mL	<sup>1</sup> HNO <sub>3</sub>
CCME/ABT1 Metals (Total)	PB	6 months	50 mL	<sup>1</sup> HNO <sub>3</sub>
pH	PB	ASAP	100 mL	NA
Alkalinity	PB	14 days	100 mL	NA
Phenols	AG	28 days	125 mL	H <sub>2</sub> SO <sub>4</sub>
Phosphorous, Total	PB	28 days	50 mL	H <sub>2</sub> SO <sub>4</sub>
Total Kjeldahl Nitrogen	PB	28 days	50 mL	H <sub>2</sub> SO <sub>4</sub>
Total Organic Carbon	PB	28 days	50 mL	H <sub>2</sub> SO <sub>4</sub>
Microtox	CG, NH	3 days	250 mL	NA
BOD	PB	48 (AB)/72 (BC) hrs	1000 mL	NA
COD	PB	28 days	125 mL	H <sub>2</sub> SO <sub>4</sub>
Reactive Silica	PB	28 days	100 mL	NA
Nitrate, Nitrite	PB	48 hours	50 mL	NA
Microtox	CG, NH	3 days	200 mL	NA
D-50 Detailed Salinity	PB	14 days	500 mL	NA
Turbidity	PB	48 hours	125 mL	NA



# SOIL

ORGANICS			
Parameter	Container Type	Holding Time	Min Amt
BTEX F1-F4	CG, NH	7 days	50 g
BTEX/F1	CG, NH	7 days	50 g
F2-F4	CG, NH	14 days	50 g
TPH	CG, NH	14 days	50 g
VOC Scan	CG, NH	7 days	50 g
TEH (C10-C32)	CG, NH	14 days	50 g
PAH Scan	CG, NH	7 days	50 g
PCB Scan	CG, NH	7 days	50 g
Oil & Grease by IR	CG	28 days	50 g
Sterilant Scan	CG	14 days	50 g
Alcohol Scan	CG	14 days	50 g
Glycol Scan	CG	14 days	50 g
Amine Scan	CG	7 days	50 g
EOX	CG	14 days	50 g
TOX	CG	14 days	50 g
BTEXS/VPH/VH	CG, NH	7 days	50 g
EPH/LEPH/HEPH/PAH	CG, NH	14 days	50 g
TCLP BTEX/Flashpoint	CG, NH	14 days	50g

INORGANICS			
Parameter	Container Type	Holding Time	Min Amt
Detailed Salinity	P.Bag	28 days	200 g
CCME/ ABT1 Metals	P. Bag	3 months	50 g
Metals + HWS B + Cr6	P. Bag	3 months	50 g
Sieve	P. Bag	NA	150 g
Ammonia	P. Bag	28 days	100 g
Hexavalent Chromium	CG	28 days	50 g
Hot Water Soluble Boron	P. Bag	28 days	50 g
Cyanide	P. Bag	14 days	50 g
Mercury	P. Bag	28 days	50 g
Nitrate + Nitrite	P. Bag	7 days	200 g
pH (saturated paste)	P. Bag	3 months	200 g
Phosphorous, Total	P. Bag	28 days	100 g
Total Kjeldahl Nitrogen	P. Bag	28 days	100 g
Total Organic Carbon	P. Bag	28 days	100 g
Microtox	CG, NH	3 days	200 g
D-50 Detailed Salinity	CG, NH	28 days	500 g

AG - Amber Glass      NH - No Headspace      P. Bag - Plastic Bag      PB - Plastic Bottle      CG - Clear Glass

- 1 - Filter and THEN preserve for dissolved or just preserve for total
- 2 - Add MnSO<sub>4</sub> and alkaline iodide azide

Please call your dedicated Client Project Manager at 403-735-2005,  
for more detailed sampling instructions or to notify of incoming RUSH samples.