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**Membership Number:** 1352

**Laboratory Name:** Enviro-Test Laboratories (Edmonton)

**Parent Institution:** ETL Chemspec Analytical Ltd.

**Address:** 9936 - 67th Ave. Edmonton, Alberta T6E 0P5

**Contact:** Ms. Beth Weitzel

**Phone:** (780) 413-5223

**Fax:** (780) 437-2311

**Email:** beth@envirotest.com

**Standard:** Conforms with requirements of CAN-P-4D (ISO/IEC 17025)

**Clients Served:** All Interested Parties

**Revised On:** December 19, 2005

**Valid To:** January 03, 2008

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## Scope of Accreditation

### Air

Dustfall - Air (120)

ISOP 127; based on AB ENVIRONMENT 32020

GRAVIMETRIC

Dustfall, Fixed

Dustfall, Total

RDL Range

### Air

Volatiles/Carbotrap Tubes - Air (121)

HSOP2; based on NIOSH 2549, EPA TO-17

GC/MS - THERMAL DESORPTION

1-Butene

1-Hexene

1-Pentene

1,1-Dichloroethane

1,1-Dichloroethene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-Dibromoethane

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

RDL Range

1,3-Dichlorobenzene  
 1,3,5-Trimethylbenzene  
 1,4-Dichlorobenzene  
 Benzene  
 Bromomethane  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroform  
 Chloromethane  
 cis-1,2-Dichloroethylene  
 cis-1,3-Dichloropropene  
 Dichloromethane  
 Ethyl chloride  
 Ethylbenzene  
 Halocarbon 11  
 Halocarbon 113  
 Halocarbon 114  
 Halocarbon 12  
 Hexachloro-1,3-butadiene  
 m/p-xylene  
 n-Butane  
 n-Hexane  
 n-Pentane  
 o-xylene  
 Styrene  
 Tetrachloroethylene  
 Toluene  
 trans-1,3-Dichloropropene  
 Trichlorethylene  
 Vinyl Chloride

**Air**

Volatiles/Canisters - Air (122)

HSOP55; based on EPA TO-15

GC/MS

RDL Range

1-Butene  
 1-Hexene  
 1-Pentene  
 1,1-Dichloroethane  
 1,1-Dichloroethene  
 1,1,1-Trichloroethane  
 1,1,2-Trichloroethane  
 1,1,2,2-Tetrachloroethane  
 1,2-Dibromoethane  
 1,2-Dichlorobenzene  
 1,2-Dichloroethane  
 1,2-Dichloropropane  
 1,2,4-Trichlorobenzene  
 1,2,4-Trimethylbenzene  
 1,3-Dichlorobenzene  
 1,3,5-Trimethylbenzene  
 1,4-Dichlorobenzene  
 Benzene  
 Bromomethane  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroform  
 Chloromethane  
 cis-1,2-Dichloroethylene  
 cis-1,3-Dichloropropene  
 Dichloromethane  
 Ethyl chloride  
 Ethylbenzene  
 Halocarbon 11  
 Halocarbon 113  
 Halocarbon 114

Halocarbon 12  
 Hexachloro-1,3-butadiene  
 m/p-xylene  
 n-Butane  
 n-Hexane  
 n-Pentane  
 o-xylene  
 Styrene  
 Tetrachloroethylene  
 Toluene  
 trans-1,3-Dichloropropene  
 Trichlorethylene  
 Vinyl Chloride

#### Air Filter

Metals - Air (016)

ISOP 32 / ISOP 96; based on EPA 3051/200.8

ICP/MS - DIGESTION

RDL Range

Aluminum  
 Barium  
 Beryllium  
 Cadmium  
 Calcium  
 Chromium  
 Cobalt  
 Copper  
 Iron  
 Lead  
 Magnesium  
 Manganese  
 Mercury  
 Molybdenum  
 Nickel  
 Potassium  
 Silver  
 Sodium  
 Strontium  
 Thallium  
 Tin  
 Vanadium  
 Zinc

#### Air (Occupational Health)

Asbestos - Air (Occupational Health) (113)

HSOP 36; based on NIOSH 7400

PCM FIBRE COUNTING

RDL Range

Asbestos- Ha Nguyen

Asbestos-Mr. Sivan Nair

#### Biological

Dioxins/Furans - Biological (086)

UTCSOP18; based on EPA 1613, EPS 1/RM/19

HRGC/HRMS - EXTRACTION

RDL Range

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin  
 1,2,3,4,7,8-Hexachlorodibenzofuran  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin  
 1,2,3,6,7,8-Hexachlorodibenzofuran  
 1,2,3,7,8-Pentachlorodibenzofuran  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin  
 1,2,3,7,8,9-Hexachlorodibenzofuran  
 2,3,4,6,7,8-Hexachlorodibenzofuran  
 2,3,4,7,8-Pentachlorodibenzofuran  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin  
 2,3,7,8-Tetrachlorodibenzofuran

Heptachlorodibenzo-p-dioxins (Total)  
Heptachlorodibenzofurans (Total)  
Hexachlorodibenzo-p-dioxins (Total)  
Hexachlorodibenzofurans (Total)  
Octachlorodibenzo-p-dioxin  
Octachlorodibenzofuran  
Pentachlorodibenzo-p-dioxins (Total)  
Pentachlorodibenzofurans (Total)  
Tetrachlorodibenzo-p-dioxins (Total)  
Tetrachlorodibenzofurans (Total)

**Biological**

Mercury - Biological (054)

ISOP 52 / ISOP 12; based on SM 2711/1599

COLD VAPOR AA - DIGESTION

RDL Range

Mercury

**Biological**

Metals - Biological (060)

ISOP 77 / ISOP 96; based on EPA 3051/200.8

ICP/MS - DIGEST

RDL Range

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Uranium  
Vanadium  
Zinc

**Biological**

Polychlorinated Biphenyls (PCB) - Biological (089)

UTCSOP18; based on EPA 1668A

HRGC/HRMS - EXTRACTION

RDL Range

PCB 1  
PCB 101  
PCB 104  
PCB 105  
PCB 110  
PCB 114  
PCB 118  
PCB 119  
PCB 123  
PCB 126  
PCB 128  
PCB 137  
PCB 138  
PCB 146  
PCB 149

PCB 15  
PCB 151  
PCB 153  
PCB 155  
PCB 156  
PCB 157  
PCB 158  
PCB 167  
PCB 168  
PCB 169  
PCB 170  
PCB 172  
PCB 177  
PCB 178  
PCB 18  
PCB 180  
PCB 183  
PCB 187  
PCB 188  
PCB 189  
PCB 19  
PCB 191  
PCB 194  
PCB 195  
PCB 196/206  
PCB 199  
PCB 201  
PCB 202  
PCB 205  
PCB 206  
PCB 208  
PCB 209  
PCB 28  
PCB 3  
PCB 33  
PCB 37  
PCB 4  
PCB 44  
PCB 49  
PCB 52  
PCB 54  
PCB 56  
PCB 66  
PCB 70  
PCB 74  
PCB 77  
PCB 8  
PCB 81  
PCB 87  
PCB 99  
Total DiCBs  
Total HpCBs  
Total HxCBs  
Total NoCBs  
Total OcCBs  
Total PCBs  
Total PeCBs  
Total TeCBs  
Total TrCBs

**Oil**

Total PCB - Oil (002)  
MSOP 8; based on EPA 8080, ASTM D4059  
GC/ECD - EXTRACTION  
Total PCB

RDL Range

**Soil/Sediment**

## Chlorinated and Non-Chlorinated Phenolics - Soil (077)

MSOP70; based on EPA 8270/3540

GC/MS - EXTRACTION

RDL Range

2-Chlorophenol  
 2-Methylphenol (o-Cresol)  
 2-Nitrophenol  
 2,3-Dichlorophenol  
 2,3,4-Trichlorophenol  
 2,3,4,5-Tetrachlorophenol  
 2,3,4,6-Tetrachlorophenol  
 2,3,5-Trichlorophenol  
 2,3,5,6-Tetrachlorophenol  
 2,3,6-Trichlorophenol  
 2,4 & 2,5-Dichlorophenol  
 2,4-Dimethylphenol  
 2,4-Dinitrophenol  
 2,4,5-Trichlorophenol  
 2,4,6-Trichlorophenol  
 2,6-Dichlorophenol  
 3-Chlorophenol  
 3-Methylphenol (m-Cresol)  
 3,4-Dichlorophenol  
 3,4,5-Trichlorophenol  
 3,5-Dichlorophenol  
 4-Chloro-3-methylphenol  
 4-Chlorophenol  
 4-Methylphenol (p-Cresol)  
 4-Nitrophenol  
 4,6-Dinitro-2-methylphenol  
 Pentachlorophenol  
 Phenol

**Soil/Sediment**

Dioxins/Furans - Soil/Sediment (085)

UTC SOP18; based on EPA 1613, EPS 1/RM/19

HRGC/HRMS - EXTRACTION

RDL Range

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin  
 1,2,3,4,7,8-Hexachlorodibenzofuran  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin  
 1,2,3,6,7,8-Hexachlorodibenzofuran  
 1,2,3,7,8-Pentachlorodibenzofuran  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin  
 1,2,3,7,8,9-Hexachlorodibenzofuran  
 2,3,4,6,7,8-Hexachlorodibenzofuran  
 2,3,4,7,8-Pentachlorodibenzofuran  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin  
 2,3,7,8-Tetrachlorodibenzofuran  
 Heptachlorodibenzo-p-dioxins (Total)  
 Heptachlorodibenzofurans (Total)  
 Hexachlorodibenzo-p-dioxins (Total)  
 Hexachlorodibenzofurans (Total)  
 Octachlorodibenzo-p-dioxin  
 Octachlorodibenzofuran  
 Pentachlorodibenzo-p-dioxins (Total)  
 Pentachlorodibenzofurans (Total)  
 Tetrachlorodibenzo-p-dioxins (Total)  
 Tetrachlorodibenzofurans (Total)

**Soil/Sediment**

Extractable Petroleum Hydrocarbons (EPH) - Soil (109)

MSOP 119; based on BC MELP EPH IN SOLIDS BY GC/FID

GC/FID - EXTRACTION

RDL Range

EPH 10-19

EPH 19-32

HEPH

LEPH

**Soil/Sediment**

Grain Size - Soil (028)

ISOP 68; based on ASTM D422-63

SIEVING

Grain Size

RDL Range

**Soil/Sediment**

Hydride Metals - Soil (024)

ISOP 52 / ISOP 53; based on SM 3114 C

HYDRIDE AA - DIGESTION

Antimony

Arsenic

Selenium

RDL Range

**Soil/Sediment**

Mercury - Soil (025)

ISOP 52 / ISOP 12; based on SM 3112 B, 2711, 1599

COLD VAPOUR AA - DIGESTION

Mercury

RDL Range

**Soil/Sediment**

Metals - Soil (023)

ISOP 50 / ISOP 96; based on EPA 3051/6020

ICP/MS - DIGESTION

Aluminum

Barium

Beryllium

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

Zinc

RDL Range

**Soil/Sediment**

Oil And Grease - Soil (029)

ISOP 13; based on EPA 5520

GRAVIMETRIC - EXTRACTION

Oil and Grease

RDL Range

**Soil/Sediment**

Particle Size - Soil (110)

ETLSOP7\_1; based on CARTER - HYDROMETER

PARTICLE SIZE

% Clay

% Sand

% Silt

RDL Range

**Soil/Sediment**

Petroleum Hydrocarbons (PHC) - Soil (072)

MSOP 142; based on ISBN 1-896997-01-5

GC/MS/FID - EXTRACTION

RDL Range

Benzene  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

**Soil/Sediment**

Petroleum Hydrocarbons (PHC) - Soil (073)

MSOP 139; based on ISBN 1-896997-01-5

GC/FID - EXTRACTION

RDL Range

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Soil/Sediment**

Petroleum Hydrocarbons (PHC) - Soil (129)

MSOP139; CCME

GC/FID - EXTRACTION

RDL Range

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Soil/Sediment**

Petroleum Hydrocarbons (PHC) - Soil (130)

MSOP139; CCME

GRAVIMETRIC

RDL Range

F4G-SG: Gravimetric Heavy Hydrocarbons - Silica

**Soil/Sediment**

Petroleum Hydrocarbons (PHC) - Soil (133)

MSOP 142; based on ISBN 1-896997-01-5

GC/FID - PURGE AND TRAP

RDL Range

F1: C6-C10

**Soil/Sediment**

pH/Conductivity - Soil (099)

ISOP 49 / ISOP 18 / ISOP19 / ISOP26; based on MCKEAGUE 3.21, based on CARTER CSSS 18.4

SATURATED PASTE, METER

RDL Range

Conductivity

pH

SAR

**Soil/Sediment**

pH/Conductivity - Soil (100)

ISOP 18 / ISOP 19; based on CARTER CSSS 16.2

1:2 EXTRACTION, METER

RDL Range

Conductivity

pH

**Soil/Sediment**

Polychlorinated Biphenyls (PCB) - Soil/Sediment (088)

UTCSOP18; based on EPA 1668A

HRGC/HRMS - EXTRACTION

RDL Range

PCB 1

PCB 101

PCB 104

PCB 105

PCB 110

PCB 114

PCB 118

PCB 119

PCB 123

PCB 126

PCB 128

PCB 137

PCB 138

PCB 146

PCB 149

PCB 15

PCB 151

PCB 153

PCB 155



PCB 156  
 PCB 157  
 PCB 158  
 PCB 167  
 PCB 168  
 PCB 169  
 PCB 170  
 PCB 172  
 PCB 177  
 PCB 178  
 PCB 18  
 PCB 180  
 PCB 183  
 PCB 187  
 PCB 188  
 PCB 189  
 PCB 19  
 PCB 191  
 PCB 194  
 PCB 195  
 PCB 196/206  
 PCB 199  
 PCB 201  
 PCB 202  
 PCB 205  
 PCB 206  
 PCB 208  
 PCB 209  
 PCB 28  
 PCB 3  
 PCB 33  
 PCB 37  
 PCB 4  
 PCB 44  
 PCB 49  
 PCB 52  
 PCB 54  
 PCB 56  
 PCB 66  
 PCB 70  
 PCB 74  
 PCB 77  
 PCB 8  
 PCB 81  
 PCB 87  
 PCB 99  
 Total DiCBs  
 Total HpCBs  
 Total HxCBs  
 Total NoCBs  
 Total OcCBs  
 Total PCBs  
 Total PeCBs  
 Total TeCBs  
 Total TrCBs

Soil/Sediment

Polycyclic Aromatic Hydrocarbons (PAH) - Soil (064)

MSOP 143; based on EPA 8270/3540

GC/MS - EXTRACTION  
 1,3-Dimethylnaphthalene  
 1,3-Methylnaphthalene  
 2-Methylantracene  
 2-Methylnaphthalene  
 3-Methylcholanthrene  
 Acenaphthene

RDL Range

Acenaphthylene  
 Anthracene  
 Benzo (a) anthracene  
 Benzo (a) pyrene  
 Benzo (b) fluoranthene  
 Benzo (g,h,i) perylene  
 Benzo (k) fluoranthene  
 Carbazole  
 Chrysene  
 Dibenzo (a,h) anthracene  
 Dibenzofuran  
 Fluoranthene  
 Fluorene  
 Indeno (1,2,3 - cd) pyrene  
 Naphthalene  
 Phenanthrene  
 Pyrene  
 Quinoline

**Soil/Sediment**

Total PCB - Soil (097)

MSOP 7; based on EPA 3550/8082

GC/ECD - EXTRACTION

Total PCB

RDL Range

**Soil/Sediment**

Volatile Organic Compounds (VOC) - Soil (101)

MSOP 50; based on EPA SW846 METHODS 5021/8260B

GC/MS - HEADSPACE

RDL Range

1,1-Dichloroethane  
 1,1-Dichloroethylene  
 1,1,1 - Trichloroethane  
 1,1,2,2-Tetrachloroethane  
 1,2-Dibromomethane  
 1,2-Dichlorobenzene  
 1,2-Dichloroethane  
 1,2-Dichloropropane  
 1,2,3-Trichloropropane  
 1,3-Dichlorobenzene  
 1,4-Dichlorobenzene  
 2-Butanone (MEK)  
 2-Hexanone  
 4-Methyl-2-Pentanone (MIBK)  
 Acetone  
 Acrylonitrile  
 Benzene  
 Bromodichloromethane  
 Bromoform  
 Bromomethane  
 Carbon Disulphide  
 Carbon Tetrachloride  
 Chlorobenzene  
 Chlorodibromomethane  
 Chloroethane  
 Chloroform  
 Chloromethane  
 cis-1,3-Dichloropropene  
 cis-1,4-Dichloro-2-Butene  
 Dibromomethane  
 Dichlorodifluoromethane  
 Dichloromethane  
 Ethyl Alcohol  
 Ethyl Methacrylate  
 Ethylbenzene  
 m/p-xylene  
 Methyl Iodide  
 o-xylene

Tetrachlorethylene  
 Thiophene  
 Toluene  
 trans 1,2-Dichloroethene  
 trans 1,3-Dichloropropene  
 trans-1,4-Dichloro-2-butene  
 Trichlorethylene  
 Trichlorfluoromethane  
 Vinyl Chloride

**Waste**

Flashpoint - Waste (055)

ISOP 48; ASTM 93-D

PENSKE-MARTEN CLOSED CUP

Flashpoint

RDL Range

**Water (Inorganic)**

Alkalinity - Water (004)

ISOP 117; based on SM 2320 B

TITRIMETRIC

Alkalinity (pH 4.5)

RDL Range

5 - 25 mg/L

**Water (Inorganic)**

Ammonia - Water (050)

ISOP 106; based on EPA 300.7

ION CHROMATOGRAPHY

Ammonia

RDL Range

.05 - .25 mg/L

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (013)

ISOP 28; based on SM 5210B

D.O. METER

BOD (5 day)

RDL Range

**Water (Inorganic)**

Carbon - Water (118)

ISOP 6; based on SM 5310 B

IR - COMBUSTION

Dissolved Inorganic Carbon (DIC)

DOC

Total Carbon (TC)

Total Inorganic Carbon (TIC)

Total Organic Carbon (TOC)

RDL Range

1 - 5 mg/L

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (051)

ISOP 30; based on SM 5220 D

COLOR - DIGESTION

COD

RDL Range

5 - 25 mg/L

**Water (Inorganic)**

Chlorate/Chlorite - Water (056)

ISOP 24; based on EPA 300.B

ION CHROMATOGRAPHY

Chlorate

Chlorite

RDL Range

**Water (Inorganic)**

Chlorine - Water (123)

ISOP124; based on SM 4500 CL-A,F,G

COLORIMETRIC

Chlorine, Free

Residual Chlorine

RDL Range

.1 - .5 mg/L

**Water (Inorganic)**

Chromium (Hexavalent) - Water (035)

ISOP 108; based on SM 3500-CR,C

ION CHROMATOGRAPHY

Chromium (Hexavalent)

RDL Range

**Water (Inorganic)**

Chromium - Water (111)

ISOP 122; based on APHA 3113 B

AA GRAPHITE - FILTRATION

Dissolved Chromium

RDL Range

.0001 - .0005 mg/L

**Water (Inorganic)**

Colour - Water (037)

ISOP 87; based on CPP H.5P

COLORIMETRIC

Colour

RDL Range

**Water (Inorganic)**

Conductivity - Water (006)

ISOP 117; based on SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

RDL Range

.1 - .5 µs/cm

**Water (Inorganic)**

Dissolved Metals - Water (007)

ISOP 96; based on EPA 6020

ICP/MS

RDL Range

Dissolved Aluminum

.01 - .05 mg/L

Dissolved Barium

.0001 - .0005 mg/L

Dissolved Beryllium

.0005 - .0025 mg/L

Dissolved Boron

.001 - .005 mg/L

Dissolved Cadmium

.0001 - .0005 mg/L

Dissolved Chromium

.0001 - .0005 mg/L

Dissolved Cobalt

.0001 - .0005 mg/L

Dissolved Copper

.0005 - .0025 mg/L

Dissolved Lead

.0001 - .0005 mg/L

Dissolved Mercury

Dissolved Molybdenum

.0001 - .0005 mg/L

Dissolved Nickel

.0001 - .0005 mg/L

Dissolved Silver

.0001 - .0005 mg/L

Dissolved Strontium

.0001 - .0005 mg/L

Dissolved Thallium

.00005 - .00025 mg/L

Dissolved Tin

.0001 - .0005 mg/L

Dissolved Vanadium

.0001 - .0005 mg/L

Dissolved Zinc

.001 - .005 mg/L

**Water (Inorganic)**

Fluoride - Water (008)

ISOP 117; based on SM 4500-F,C

SELECTIVE ION ELECTRODE

Fluoride

RDL Range

.05 - .25 mg/L

**Water (Inorganic)**

Hydride Metals - Water (036)

ISOP 51 / ISOP 53; based on SM 3114 C

HYDRIDE FLAME AA - DIGESTION

Total Antimony

RDL Range

Total Arsenic

.1 - .5 µg/L

Total Selenium

.1 - .5 µg/L

**Water (Inorganic)**

Major Ions - Water (005)

ISOP 46 / ISOP 29; based on SM 4110 B

ION CHROMATOGRAPHY

Bromide

RDL Range

Chloride

.1 - .5 mg/L

Nitrate

.1 - .5 mg/L

Phosphate

.01 - .05 mg/L

Sulfate

.05 - .25 mg/L

.5 - 2.5 mg/L

**Water (Inorganic)**

Mercury - Water (034)

ISOP 67 / ISOP 12; based on SM 3112 B

COLD VAPOUR AA - DIGESTION

Mercury

RDL Range

.1 - .5 µg/L

**Water (Inorganic)**

Metals (Ultra Trace) - Water (061)

ISOP 96; based on EPA 6020

ICP/MS

RDL Range

Calcium

Dissolved Aluminum

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 Silver  
 Dissolved Thallium  
 Dissolved Tin  
 Dissolved Vanadium  
 Dissolved Zinc  
 Magnesium  
 Mercury  
 Potassium  
 Sodium  
 Strontium  
 Total Antimony  
 Total Arsenic  
 Total Selenium  
 Uranium

**Water (Inorganic)**

Nitrate/Nitrite - Water (057)

ISOP 22 / ISOP 23; based on SM 4500-NO<sub>2</sub>,B / SM 4500-NO<sub>3</sub>,H

COLOR

Nitrate plus Nitrite

RDL Range

Nitrite

.1 - .5 mg/L

.05 - .25 mg/L

**Water (Inorganic)**

Oil and Grease - Water (038)

ISOP 14; based on SM 5520 A,B,F

GRAVIMETRIC - SHAKE

Total Oil and Grease

RDL Range

**Water (Inorganic)**

Oil and Grease - Water (059)

ISOP 41; based on EPA 1664, SM 5520

GRAVIMETRIC

Total Oil and Grease

RDL Range

**Water (Inorganic)**

Orthophosphate - Water (084)

ISOP 99; based on SM 4500-P

COLORIMETRIC

Phosphate

RDL Range

.01 - .05 mg/L

**Water (Inorganic)**

pH - Water (015)

ISOP 117; based on SM 4500-H,B

pH METER

pH

RDL Range

**Water (Inorganic)**

Phosphorus - Water (011)

ISOP 99; based on SM 4500-P,B,E

COLOR - DIGESTION

Total Dissolved Phosphorus

RDL Range

Total Phosphorus

.01 - .05 mg/L

**Water (Inorganic)**

Phosphorus - Water (119)

ISOP93, ISOP 128; based on SM 4500-P B, E

COLORIMETRIC

Inorganic Phosphorus

RDL Range

**Water (Inorganic)**

Routine Metals - Water (083)

ISOP 26 / ISOP 100; based on SM 3120B

|                                             |                  |
|---------------------------------------------|------------------|
| ICP                                         | RDL Range        |
| Calcium                                     |                  |
| Dissolved Calcium                           | .5 - 2.5 mg/L    |
| Dissolved Iron                              | .005 - .025 mg/L |
| Dissolved Magnesium                         | .1 - .5 mg/L     |
| Dissolved Manganese                         | .001 - .005 mg/L |
| Iron                                        |                  |
| Magnesium                                   |                  |
| Manganese                                   |                  |
| Potassium                                   | .1 - .5 mg/L     |
| Sodium                                      | 1 - 5 mg/L       |
| <b>Water (Inorganic)</b>                    |                  |
| Solids - Water (012)                        |                  |
| ISOP 21; based on SM 2540 A,B,C,D,E         |                  |
| GRAVIMETRIC                                 | RDL Range        |
| Total Dissolved Solids                      |                  |
| Total Suspended Solids                      | 1 - 5 mg/L       |
| <b>Water (Inorganic)</b>                    |                  |
| Sulfide - Water (033)                       |                  |
| ISOP 2; based on SM 4500-S2 A, D,E          |                  |
| COLORIMETRIC                                | RDL Range        |
| Sulfide                                     |                  |
| <b>Water (Inorganic)</b>                    |                  |
| Total Chromium - Water (115)                |                  |
| ISOP 7 / ISOP 122; based on APHA 3113 B     |                  |
| AA GRAPHITE - FILTRATION                    | RDL Range        |
| Total Chromium                              |                  |
| <b>Water (Inorganic)</b>                    |                  |
| Total Kjeldahl Nitrogen (TKN) - Water (010) |                  |
| ISOP 79; based on AB ENVIR. 235             |                  |
| COLOR - DIGESTION                           | RDL Range        |
| Total Kjeldahl Nitrogen                     | .1 - .5 mg/L     |
| <b>Water (Inorganic)</b>                    |                  |
| Total Metals - Water (081)                  |                  |
| ISOP 7 / ISOP 100; based on EPA 3015/6010   |                  |
| ICP - DIGESTION                             | RDL Range        |
| Total Calcium                               |                  |
| Total Iron                                  |                  |
| Total Magnesium                             |                  |
| Total Manganese                             |                  |
| Total Potassium                             |                  |
| Total Silicon                               |                  |
| Total Sodium                                |                  |
| Total Sulfur                                |                  |
| <b>Water (Inorganic)</b>                    |                  |
| Total Metals - Water (082)                  |                  |
| ISOP 7 / ISOP 96; based on EPA 3015/6020    |                  |
| ICP/MS - DIGESTION                          | RDL Range        |
| Total Aluminum                              |                  |
| Total Barium                                |                  |
| Total Beryllium                             |                  |
| Total Boron                                 |                  |
| Total Cadmium                               |                  |
| Total Chromium                              |                  |
| Total Cobalt                                |                  |
| Total Copper                                |                  |
| Total Lead                                  |                  |
| Total Mercury                               |                  |
| Total Molybdenum                            |                  |
| Total Nickel                                |                  |
| Total Silver                                |                  |
| Total Strontium                             |                  |
| Total Thallium                              |                  |
| Total Tin                                   |                  |
| Total Vanadium                              |                  |

## Total Zinc

**Water (Inorganic)**

Turbidity - Water (078)

ISOP 38; based on SM 2130 A,B

TURBIDIMETRIC

RDL Range

Turbidity

.1 - .5 NTU

**Water (Organic)**

Base/Neutral Extractables - Water (117)

MSOP 161; based on EPA 3510/8270

GC/MS - EXTRACTION

RDL Range

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

2-Chloronaphthalene

2,4-Dinitrotoluene

2,6-Dinitrotoluene

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Hexachloroethane

Pentachlorobenzene

**Water (Organic)**

Chlorinated and Non-Chlorinated Phenolics - Water (076)

MSOP71; based on EPA 8270/3510

GC/MS - EXTRACTION

RDL Range

2-Chlorophenol

2-Methylphenol (o-Cresol)

2-Nitrophenol

2,3-Dichlorophenol

2,3,4-Trichlorophenol

2,3,4,5-Tetrachlorophenol

2,3,4,6 Tetrachlorophenol

2,3,5-Trichlorophenol

2,3,5,6-Tetrachlorophenol

2,3,6-Trichlorophenol

2,4 &amp; 2,5-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4,5-Trichlorophenol

2,4,6-trichlorophenol

2,6-Dichlorophenol

3-Chlorophenol

3-Methylphenol (m-Cresol)

3,4-Dichlorophenol

3,4,5-Trichlorophenol

3,5-Dichlorophenol

4-Chloro-3-methylphenol

4-Chlorophenol

4-Methylphenol (p-Cresol)

4-Nitrophenol

4,6-Dinitro-2-methylphenol

Pentachlorophenol

Phenol

**Water (Organic)**

Chlorophenols - Water (019)

MSOP 42; based on EPA 1653 AND ALBERTA ENVIRONMENT 130.0

GC/MS - EXTRACTION

RDL Range

2-Chlorophenol

2-Chlorosyringaldehyde

2,4,5-Trichlorophenol

2,6-Dichlorophenol

2,6-Dichlorosyringaldehyde

3,4-Dichlorocatechol

3,4-Dichloroguaiacol

3,4,5-Trichlorocatechol

3,4,5-Trichloroguaiacol

3,4,5-Trichloroveratrole  
 3,4,6-Trichlorocatechol  
 3,4,6-Trichloroguaiacol  
 3,5-Dichlorocatechol  
 3,6-Dichlorocatechol  
 4-Chlorocatechol  
 4-Chloroguaiacol  
 4-Chlorophenol  
 4,5-Dichlorocatechol  
 4,5-Dichloroguaiacol  
 4,5-Dichloroveratrole  
 4,5,6-Trichloroguaiacol  
 4,5,6-Trichlorosyringol  
 4,6-Dichloroguaiacol  
 5-Chlorovanillin  
 5,6-Dichlorovanillin  
 6-Chlorovanillin  
 Tetrachlorocatechol  
 Tetrachloroguaiacol  
 Tetrachloroveratrole  
 Trichlorotrimethoxybenzene

#### Water (Organic)

Dioxins/Furans - Water (049)

UTCSOP 17; based on EPA 1613, EPS 1/RM/19

GC/HRMS - EXTRACTION

RDL Range

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin  
 1,2,3,4,7,8-Hexachlorodibenzofuran  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin  
 1,2,3,6,7,8-Hexachlorodibenzofuran  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin  
 1,2,3,7,8-Pentachlorodibenzofuran  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin  
 1,2,3,7,8,9-Hexachlorodibenzofuran  
 2,3,4,6,7,8-Hexachlorodibenzofuran  
 2,3,4,7,8-Pentachlorodibenzofuran  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin  
 2,3,7,8-Tetrachlorodibenzofuran  
 Heptachlorodibenzo-p-dioxins (Total)  
 Heptachlorodibenzofurans (Total)  
 Hexachlorodibenzo-p-dioxins (Total)  
 Hexachlorodibenzofurans (Total)  
 Octachlorodibenzo-p-dioxin  
 Octachlorodibenzofuran  
 Pentachlorodibenzo-p-dioxins (Total)  
 Pentachlorodibenzofurans (Total)  
 Tetrachlorodibenzo-p-dioxins (Total)  
 Tetrachlorodibenzofurans (Total)

#### Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Water (108)

MSOP 125; based on BC MELP EPH IN WATER BY GC/FID

GC/FID - EXTRACTION

RDL Range

EPH 10-19  
 EPH 19-32  
 HEPH  
 LEPH

#### Water (Organic)

Formaldehyde - Water (116)

MSOP47; based on ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 1989, 23:838-847

GC/MS - EXTRACTION

RDL Range

Formaldehyde

#### Water (Organic)

Pesticides - Water (066)



PSOP 101; based on JOAC VOL. 74, #3, 1991

GC/MS - EXTRACTION/DERIV

RDL Range

2,4-dichlorophenoxyacetic acid

2,4,5-trichlorophenoxyacetic acid

Bromoxynil

Dicamba

Diclofop-methyl (as free acid)

Dinoseb

Picloram

#### Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (074)

MSOP 142; based on EPA 5030/8015

GC/FID - PURGE AND TRAP

RDL Range

F1: C6-C10

#### Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (075)

MSOP 141; based on EPA 3510/8015

GC/FID - EXTRACTION

RDL Range

F2: C10-C16

#### Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (087)

UTCSOP17; based on EPA 1668 A

HRGC/HRMS - EXTRACTION

RDL Range

PCB 1

PCB 101

PCB 104

PCB 105

PCB 110

PCB 114

PCB 118

PCB 119

PCB 123

PCB 126

PCB 128

PCB 137

PCB 138

PCB 146

PCB 149

PCB 15

PCB 151

PCB 153

PCB 155

PCB 156

PCB 157

PCB 158

PCB 167

PCB 168

PCB 169

PCB 170

PCB 172

PCB 177

PCB 178

PCB 18

PCB 180

PCB 183

PCB 187

PCB 188

PCB 189

PCB 19

PCB 191

PCB 194

PCB 195

PCB 196/206

PCB 199

PCB 201

PCB 202  
PCB 205  
PCB 206  
PCB 208  
PCB 209  
PCB 28  
PCB 3  
PCB 33  
PCB 37  
PCB 4  
PCB 44  
PCB 49  
PCB 52  
PCB 54  
PCB 56  
PCB 66  
PCB 70  
PCB 74  
PCB 77  
PCB 8  
PCB 81  
PCB 87  
PCB 99  
Total DiCBs  
Total HpCBs  
Total HxCBs  
Total NoCBs  
Total OcCBs  
Total PeCBs  
Total TeCBs  
Total TrCBs

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (003)

MSOP 5; based on EPA 8270/3510

GC/MS - EXTRACTION

RDL Range

1-Methylnaphthalene  
1,3-Dimethylnaphthalene  
2-Methylanthracene  
2-Methylnaphthalene  
3-Methylcholanthrene  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Carbazole  
Chrysene  
Dibenzo (a,h) anthracene  
Dibenzofuran  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Phenanthrene  
Pyrene

**Water (Organic)**

Resin and Fatty Acids - Water (020)

MSOP 26; based on ALBERTA ENVIRONMENT 129.0

GC/MS - EXTRACTION

RDL Range

12-Chlorodehydroabietic Acid  
12,14-Dichlorodehydroabietic Acid  
14-Chlorodehydroabietic Acid

9,10-Dichlorostearic Acid  
 Abietic Acid  
 Arachidic Acid  
 Dehydroabietic Acid  
 Isopimaric Acid  
 Levopimaric Acid  
 Linolenic Acid  
 Myristic Acid  
 Neoabietic Acid  
 Oleic Acid  
 Palmitic Acid  
 Palustric Acid  
 Pimaric Acid  
 Sandaracopimaric Acid  
 Stearic Acid

**Water (Organic)**

Resin and Fatty Acids - Water (132)

MSOP26; ALBERTA ENVIRONMENT 129.0

GC/MS - EXTRACTION

RDL Range

12-Chlorodehydroabietic acid  
 12,14-Dichlorodehydroabietic acid  
 14-Chlorodehydroabietic acid  
 9,10-Dichlorostearic acid  
 Abietic acid  
 Arachidic acid  
 Dehydroabietic Acid  
 Isopimaric acid  
 Levopimaric acid  
 Linoleic Acid  
 Linolenic Acid  
 Myristic acid  
 Neoabietic acid  
 Oleic Acid  
 Palmitic Acid  
 Palustric acid  
 Pimaric acid  
 Sandaracopimaric acid  
 Stearic Acid

**Water (Organic)**

Total PCB - Water (096)

MSOP4; based on EPA 3510/8082

GC/ECD - EXTRACTION

RDL Range

Total PCB

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (009)

MSOP 12; based on EPA 8240/5030

GC/MS - PURGE & TRAP

RDL Range

1,1-Dichloroethane  
 1,1-dichloroethylene  
 1,1,1-Trichloroethane  
 1,1,2-Trichloroethane  
 1,1,2,2-Tetrachloroethane  
 1,2-Dibromoethane  
 1,2-dichlorobenzene  
 1,2-dichloroethane  
 1,2-Dichloropropane  
 1,2,3-Trichloropropane  
 1,3-Dichlorobenzene  
 1,4-dichlorobenzene  
 2-Butanone (MEK)  
 2-Hexanone  
 4-Methyl-2-Pentanone (MIBK)  
 Acetone  
 Acrylonitrile  
 Benzene

Bromodichloromethane  
 Bromoform  
 Bromomethane  
 Carbon Disulphide  
 Carbon Tetrachloride  
 Chlorobenzene  
 Chlorodibromomethane  
 Chloroethane  
 Chloroform  
 Chloromethane  
 cis-1,3-Dichloropropene  
 cis-1,4-Dichloro-2-Butene  
 Dibromomethane  
 Dichlorodifluoromethane  
 Dichloromethane  
 Ethyl Alcohol  
 Ethyl Methacrylate  
 Ethylbenzene  
 m/p-xylene  
 Methyl Iodide  
 o-xylene  
 Styrene  
 Tetrachloroethylene  
 Toluene  
 trans-1,2-Dichloroethene  
 trans-1,3-Dichloropropene  
 trans-1,4-Dichloro-2-Butene  
 Trichloroethylene  
 Trichlorofluoromethane  
 Vinyl Chloride

# **Water (Organic)**

Volatiles - Water (114)

MSOP 50; based on EPA SW846 METHOD 8260 B

GC/MS - HEADSPACE

RDL Range

1,1-Dichloroethane  
 1,1-dichloroethylene  
 1,1,1-Trichloroethane  
 1,1,2-Trichloroethane  
 1,1,2,2-Tetrachloroethane  
 1,2-Dibromoethane  
 1,2-dichlorobenzene  
 1,2-dichloroethane  
 1,2-Dichloropropane  
 1,2,3-Trichloropropane  
 1,3-Dichlorobenzene  
 1,4-dichlorobenzene  
 2-Butanone (MEK)  
 2-Hexanone  
 4-Methyl-2-Pentanone (MIBK)  
 Acetone  
 Acrylonitrile  
 Benzene  
 Bromodichloromethane  
 Bromoform  
 Bromomethane  
 Carbon Disulphide  
 Carbon Tetrachloride  
 Chlorobenzene  
 Chlorodibromomethane  
 Chloroethane  
 Chloroform  
 Chloromethane  
 cis-1,3-Dichloropropene  
 cis-1,4-Dichloro-2-Butene  
 Dibromomethane

Dichlorodifluoromethane  
Dichloromethane  
Ethyl Alcohol  
Ethyl Methacrylate  
Ethylbenzene  
m/p-xylene  
Methyl Iodide  
o-xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethene  
trans-1,3-Dichloropropene  
trans-1,4-Dichloro-2-Butene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

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