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Membership Number: 1999

Laboratory Name: **SGS Environmental Services**

Parent Institution: SGS Lakefield Research

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

Clients Served:

Revised On: February 02, 2005

Valid To: February 02, 2008

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Scope of Accreditation

Search Criteria - results highlighted in yellow
Laboratory Name contains "sgs"

Air Filter	
Respirable Silica - Air (072)	
MTH-SPEC-6 + 8-10-1; NIOSH 7500	
XRD	RDL Range
Respirable Silica	
Air (Occupational Health)	
Metals - Air (070)	
MTH-SPEC-6; based on NIOSH 7300	
ICP/OES - DIGESTION	RDL Range
Arsenic	
Beryllium	
Cadmium	.1 - .5 µg
Chromium	.5 - 2.5 µg
Cobalt	
Lead	.5 - 2.5 µg
Manganese	
Nickel	
Zinc	.1 - .5 µg
Oil	
Total PCB - Oil (012)	
MTH-CHR-8; based on ASTM D4059-86	
GC/ECD - EXTRACTION	RDL Range

Total PCB	1 - 5 µg/g
Soil/Sediment	
Metals - Soil/Sludge/Sediment/Biosolid (173)	
MTH-SPEC-5; based on EPA 3051/EPA 3050 A	
ICP/OES - DIGESTION	RDL Range
Aluminum	
Antimony	1 - 5 µg/g
Arsenic	.5 - 2.5 µg/g
Barium	
Beryllium	.1 - .5 µg/g
Bismuth	
Boron	
Cadmium	.05 - .25 µg/g
Calcium	
Chromium	.5 - 2.5 µg/g
Cobalt	.1 - .5 µg/g
Copper	.1 - .5 µg/g
Iron	
Lead	.5 - 2.5 µg/g
Lithium	
Magnesium	
Manganese	
Molybdenum	
Nickel	1 - 5 µg/g
Phosphorus	
Potassium	
Selenium	
Silver	
Sodium	
Strontium	
Thallium	
Tin	
Titanium	
Uranium	
Vanadium	
Yttrium	
Zinc	.1 - .5 µg/g
Soil/Sediment	
Volatile Organic Compounds (VOC) - Soil/Sediment/Sludge/Biosolid (133)	
MTH-CHR-15; based on OMOE; 1989a, 1989b/EPA 524.2/EPA 624	
GC/MSD - PURGE AND TRAP	RDL Range
1,1-Dichloroethylene	
1,1,1-Trichloroethane	
1,1,2-Trichloroethane	
1,2-Dichlorobenzene	
1,2-Dichloroethane	
1,2-Dichloropropane	
1,2,4-Trichlorobenzene	
1,4-Dichlorobenzene	
Benzene	.001 - .005 mg/kg
Bromodichloromethane	
Bromoform	
Carbon Tetrachloride	
Chlorodibromomethane	
Chloroform	
cis-1,2-Dichloroethylene	
Dichloromethane	
Ethylbenzene	.1 - .5 mg/kg
m/p-xylene	.001 - .005 mg/kg
Monochlorobenzene	
o-xylene	.001 - .005 mg/kg
tetrachloroethylene	
Toluene	.001 - .005 mg/kg
trans-1,2-Dichloroethylene	
trichloroethylene	
Vinyl Chloride	
Soil/Sediment/Sludge/Biosolid	

Escherichia coli (E.coli) - Soil/Sediment/Sludge/Biosolid (158)	
MTH-MICRO-6; based on SM 9222 D/OMOE E3371 A	
MEMBRANE FILTRATION	RDL Range
Escherichia coli (E.coli)	
Soil/Sediment/Sludge/Biosolid	
Mercury - Soil/Sediment/Sludge/Biosolid (141)	
MTH-SPEC-7; based on EPA 7471A/ APHA 3112B	
COLD VAPOUR AA - DIGESTION	RDL Range
Mercury	.1 - .5 ng/g
Soil/Sediment/Sludge/Biosolid	
Metals - Soil/Sediment/Sludge/Biosolid (168)	
MTH-SPEC-1; based on HANDBOOK OF ANALYTICAL CHEMISTRY	
ICP/OES HF/HClO4 DIGESTION	RDL Range
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Cadmium	
Calcium	
Chromium	
Copper	
Iron	
Lead	
Lithium	
Magnesium	
Manganese	
Molybdenum	
Nickel	
Phosphorus	
Potassium	
Selenium	
Silver	
Sodium	
Strontium	
Thallium	
Tin	
Titanium	
Vanadium	
Yttrium	
Zinc	
Soil/Sediment/Sludge/Biosolid	
Oil and Grease - Soil/Sediment/Sludge/Biosolid (022)	
MTH-CHR-24; based on SM 5520; APHA, 1995/CCME	
GRAVIMETRIC/SOXHET	RDL Range
Mineral/Synthetic	
Oil and Grease	
Soil/Sediment/Sludge/Biosolid	
Petroleum Hydrocarbons (PHC) - Soil/Sediment/Sludge/Biosolid (165)	
MTH-CHR-24; CCME	
GC/FID - PURGE AND TRAP	RDL Range
F1: C6-C10	10 - 50 mg/kg
Soil/Sediment/Sludge/Biosolid	
Petroleum Hydrocarbons (PHC) - Soil/Sediment/Sludge/Biosolid (176)	
MTH-CHR-24; CCME	
GC/FID - SOXHLET EXTRACTION	RDL Range
F2: C10-C16	10 - 50 mg/kg
F3: C16-C34	50 - 250 mg/kg
F4: C34-C50	50 - 250 mg/kg
Soil/Sediment/Sludge/Biosolid	
Polycyclic Aromatic Hydrocarbons (PAH) - Soil/Sediment/Sludge/Biosolid (069)	
MTH-CHR-17; based on TOM-E3209A/STANDARD METHOD 6410B	
GC/MS - EXTRACTION	RDL Range
Acenaphthene	
Acenaphthylene	
Anthracene	

Benzo (a) anthracene	.01 - .05 µg/g
Benzo (a) pyrene	.01 - .05 µg/g
Benzo (b) fluoranthene	.05 - .25 µg/g
Benzo (g,h,i) perylene	.05 - .25 µg/g
Benzo (k) fluoranthene	.05 - .25 µg/g
Chrysene	
Dibenzo (a,h) anthracene	
Fluoranthene	.01 - .05 µg/g
Fluorene	
Indeno (1,2,3 - cd) pyrene	.05 - .25 µg/g
Naphthalene	
Phenanthrene	.01 - .05 µg/g
Pyrene	.01 - .05 µg/g
Soil/Sediment/Sludge/Biosolid	
Total Coliforms - Soil/Sediment/Sludge/Biosolid (159)	
MTH-MICRO-7; based on SM 9222 D/OMOE E3371 A	
MEMBRANE FILTRATION	RDL Range
Total Coliforms	
Soil/Sediment/Sludge/Biosolid	
Total Kjeldahl Nitrogen (TKN) - Soil/Sediment/Sludge/Biosolid (029)	
MTH-EWL-31; based on EPA 351.2/ SKALAR (1996)	
SEGMENTED FLOW - DIGESTION	RDL Range
Total Kjeldahl Nitrogen	
Soil/Sediment/Sludge/Biosolid	
Total Petroleum Hydrocarbons (TPH) - Soil/Sediment/Sludge/Biosolid (023)	
MTH-CHR-13; IN-HOUSE	
GC/FID - EXTRACTION	RDL Range
TPH (C8 to C28)	
Solid	
Polychlorinated Biphenyl (PCBs) - Soil/Sediment/Sludge (025)	
MTH-CHR-8; based on ASTM D4059-86	
GC/ECD - EXTRACTION	RDL Range
Polychlorinated Biphenyl (PCBs)	
Solids/Sludge/Sediment	
Metals - Soil/Sludge/Sediment/Biosolid (175)	
MTH-SPEC-11; based on EPA 3051/EPA 3050 A	
ICP/MS - DIGESTION	RDL Range
Arsenic	.01 - .05 µg/g
Cadmium	.005 - .025 µg/g
Copper	.01 - .05 µg/g
Lead	.001 - .005 µg/g
Nickel	.01 - .05 µg/g
Selenium	
Thallium	
Tailings & Waste Rock	
Metals - Solids, Liquids and Multiphase Wastes (139)	
MTH-SPEC-10 + MTH-EWL-6; based on O.REG. 347 AND EPA 200.8	
ICP/MS - LEACH	RDL Range
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Cadmium	
Chromium	
Cobalt	
Copper	
Lead	
Lithium	
Molybdenum	
Nickel	
Selenium	
Silver	
Strontium	
Thallium	
Tin	

Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc

Tailings, Waste Rock, Soil & Ore

Acid Generating Potential - Tailings and Rock (031)

MTH-EWL-2; BRUYNESTEYN AND HACKL; 1984

TITRATION

RDL Range

Acid Generating Potential

Tailings, Waste Rock, Soil & Ore

Acid Generating Potential - Tailings and Rock (032)

MTH-EWL-1; based on SOBEK ET AL.; 1978

TITRATION

RDL Range

Acid Generating Potential

Tailings, Waste Rock, Soil & Ore

Metals - Solids, Liquids and Multiphase Wastes (115)

MTH-SPEC-6 + MTH-EWL-11; based on EPA 1311; MOE 1993

ICP/OES - LEACH

RDL Range

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Tellurium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc

Tailings, Waste Rock, Soil & Ore

Metals - Solids, Liquids and Mutliphase Wastes (116)

MTH-SPEC-6 + MTH-EWL-10; based on EPA 1312; MOEE 1993

ICP/OES - LEACH

RDL Range

Aluminum
Antimony
Arsenic
Barium
Beryllium
Cadmium
Calcium
Chromium
Cobalt

Copper
 Iron
 Lead
 Magnesium
 Manganese
 Mercury
 Molybdenum
 Nickel
 Phosphorus
 Potassium
 Selenium
 Silver
 Sodium
 Tellurium
 Tin
 Zinc

Tailings, Waste Rock, Soil & Ore

Modified ABA - Tailings and Rock (117)

MTH-EWL-3; based on MEND PROJECT 1.16.1B

TITRIMETRIC

RDL Range

AP

NP

Tailings, Waste Rock, Soil & Ore

Modified ABA - Soil/Sediment/Sludge/Biosolid/Tailings/Rock (125)

MTH-EWL-5; based on MEND PROJECT 1.16.1B

METER

RDL Range

Paste pH

Water (Inorganic)

Alcohols - Water (167)

MTH-CHR-22; based on SUPELCO APPLICATION NOTES

GC/MS - SPME

RDL Range

Isopropyl alcohol

Methanol

Water (Inorganic)

Alkalinity - Water (144)

MTH-EWL-24; based on MANTECH/SM 2320 B

AUTOTITRATOR

RDL Range

Alkalinity (pH 4.5)

.1 - .5 mg/L

Water (Inorganic)

Ammonia - Water (082)

MTH-EWL-37; based on SM 4500-NH3 H

COLOURIMETRY

RDL Range

Ammonia

.1 - .5 mg/L

Ammonium

Water (Inorganic)

Anions - Water (002)

MTH-CHR-1; based on EPA 300.1

ION CHROMATOGRAPHY

RDL Range

Bromide

.01 - .05 mg/L

Chloride

.1 - .5 mg/L

Fluoride

.1 - .5 mg/L

Nitrate

.05 - .25 mg/L

Nitrite

.05 - .25 mg/L

Sulfate

.5 - 2.5 mg/L

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (008)

MTH-EWL-25; based on APHA SM 5210B

D.O. METER

RDL Range

BOD (5 day)

CBOD (5 day)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (071)

MTH-EWL-27; based on HACH METHOD 8000

HACH COD REACTOR

RDL Range

COD

5 - 25 mg/L

Water (Inorganic)

Chlorine - Water (Residual and Total) (151)

MTH-EWL-26; based on HACH/SM 4500 CI-G	
HACH	RDL Range
Residual Chlorine	.01 - .05 mg/L
Total Chlorine	
Water (Inorganic)	
Chromium (Hexavalent) - Water (094)	
MTH-EWL-29; based on NIOSH 7600/HACH 1560	
COLOURIMETRY	RDL Range
Chromium (Hexavalent)	
Water (Inorganic)	
Colour - Water (102)	
MTH-EWL-20; based on HACH/SM 2120 B	
UV/VIS	RDL Range
Colour	
Water (Inorganic)	
Conductivity - Water (146)	
MTH-EWL-24; based on MANTECH/SM 2510 B	
AUTOTITRATOR	RDL Range
Conductivity (25°C)	1 - 5 µs/cm
Water (Inorganic)	
Cyanate - Water (079)	
MTH-CHR-2; based on DIONEX (1989)/SGS LAKEFIELD RESEARCH	
ION CHROMATOGRAPHY	RDL Range
Cyanate (CNO)	
Water (Inorganic)	
Cyanide - Water (015)	
MTH-EWL-35; based on 4500-CN-O	
AUTO COLOUR	RDL Range
Cyanide (Free)	
Cyanide (SAD)	.001 - .005 mg/L
Water (Inorganic)	
Disinfectant By-Products - Water (148)	
MTH-CHR-6; based on DIONEX; EPA 317.0	
ION CHROMATOGRAPHY	RDL Range
Bromate	
Bromide	
Chlorite	
Water (Inorganic)	
Dissolved Metals - Water/ ICP/OES (003)	
MTH-SPEC-6; based on SM 3030B/EPA 200.7	
ICP/OES	RDL Range
Dissolved Aluminum	.01 - .05 mg/L
Dissolved Antimony	
Dissolved Arsenic	
Dissolved Barium	.001 - .005 mg/L
Dissolved Beryllium	.001 - .005 mg/L
Dissolved Bismuth	
Dissolved Boron	.01 - .05 mg/L
Dissolved Cadmium	.005 - .025 mg/L
Dissolved Calcium	.05 - .25 mg/L
Dissolved Chromium	.01 - .05 mg/L
Dissolved Cobalt	.01 - .05 mg/L
Dissolved Copper	.005 - .025 mg/L
Dissolved Iron	.01 - .05 mg/L
Dissolved Lead	.01 - .05 mg/L
Dissolved Lithium	
Dissolved Magnesium	.005 - .025 mg/L
Dissolved Manganese	.001 - .005 mg/L
Dissolved Molybdenum	.01 - .05 mg/L
Dissolved Nickel	.01 - .05 mg/L
Dissolved Phosphorus	
Dissolved Potassium	
Dissolved Selenium	
Dissolved Silicon	
Dissolved Silver	.005 - .025 mg/L
Dissolved Strontium	.0001 - .0005 mg/L
Dissolved Thallium	.1 - .5 mg/L

Dissolved Tin	.1 - .5 mg/L
Dissolved Titanium	.005 - .025 mg/L
Dissolved Tungsten	
Dissolved Uranium	.01 - .05 mg/L
Dissolved Vanadium	.001 - .005 mg/L
Dissolved Yttrium	
Dissolved Zinc	.01 - .05 mg/L
Sodium	.05 - .25 mg/L
Water (Inorganic)	
Dissolved and Total Reactive Phosphorous - Water (081)	
MTH-EWL-34; based on SM 4500-P.G.	
COLOURIMETRY	RDL Range
Dissolved Reactive Phosphorous	
Phosphate	.01 - .05 mg/L
Water (Inorganic)	
Dissolved Metals - Water/ICPMS (114)	
MTH-SPEC-11; based on SM 3030B/ EPA 200.8	
ICP/MS	RDL Range
Dissolved Aluminum	.001 - .005 mg/L
Dissolved Antimony	
Dissolved Arsenic	
Dissolved Barium	.001 - .005 mg/L
Dissolved Beryllium	.005 - .025 mg/L
Dissolved Bismuth	
Dissolved Boron	.005 - .025 mg/L
Dissolved Cadmium	.0001 - .0005 mg/L
Dissolved Chromium	.001 - .005 mg/L
Dissolved Cobalt	.0001 - .0005 mg/L
Dissolved Copper	.0005 - .0025 mg/L
Dissolved Iron	.05 - .25 mg/L
Dissolved Lead	.0001 - .0005 mg/L
Dissolved Lithium	
Dissolved Magnesium	.001 - .005 mg/L
Dissolved Manganese	.0005 - .0025 mg/L
Dissolved Molybdenum	.0001 - .0005 mg/L
Dissolved Nickel	.001 - .005 mg/L
Dissolved Selenium	
Dissolved Silver	.0001 - .0005 mg/L
Dissolved Strontium	.0001 - .0005 mg/L
Dissolved Thallium	.0001 - .0005 mg/L
Dissolved Tin	.001 - .005 mg/L
Dissolved Titanium	.001 - .005 mg/L
Dissolved Uranium	.0001 - .0005 mg/L
Dissolved Vanadium	.0005 - .0025 mg/L
Dissolved Zinc	.001 - .005 mg/L
Water (Inorganic)	
Fluoride - Water (004)	
MTH-EWL-41; based on SM 4500F C	
SELECTIVE ION ELECTRODE	RDL Range
Fluoride	.05 - .25 mg/L
Water (Inorganic)	
Mercury - Water/CVAA (118)	
MTH-SPEC-7; based on EPA 245.1/ APHA 3112B	
COLD VAPOUR AA - DIGESTION	RDL Range
Mercury	.1 - .5 µg/L
Water (Inorganic)	
Methane - Water (134)	
MTH-CHR-30; JOURNAL OF CHROMATOGRAPHIC SCIENCE; VOL. 36, MAY 1998/SGS LAKEFIELD RESEARCH	
GC/FID - EXTRACTION	RDL Range
Methane	
Water (Inorganic)	
Oil and Grease (SEM) - Water (018)	
MTH-CHR-25; based on SM 5520	
GRAVIMETRIC	RDL Range
Total Oil and Grease	1 - 5 mg/L
Water (Inorganic)	
Organic Carbon - Water (149)	

MTH-EWL-39; based on SKALAR/SM 5310 C	
COLORIMETRIC	RDL Range
DOC	1 - 5 mg/L
Total Organic Carbon	
Water (Inorganic)	
pH - Water (016)	
MTH-EWL-19; based on SM 4500-H	
pH METER	RDL Range
pH	
Water (Inorganic)	
pH - Water (145)	
MTH-EWL-24; based on MANTECH/SM 4500-HB	
AUTOTITRATOR	RDL Range
pH	
Water (Inorganic)	
Phenols - Water (020)	
MTH-EWL-36; based on SM 5530 C	
AUTO COLOR	RDL Range
Total Phenolics	.001 - .005 mg/L
Water (Inorganic)	
Recoverable Metals - Water (130)	
MTH-SPEC-6; based on SM 3030D/EPA 200.7	
ICP/OES - DIGESTION	RDL Range
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Boron	
Cadmium	
Calcium	
Chromium	
Cobalt	
Copper	
Iron	
Lead	
Lithium	
Magnesium	
Manganese	
Molybdenum	
Nickel	
Phosphorus	
Potassium	
Selenium	
Silicon	
Silver	
Sodium	
Strontium	
Thallium	
Tin	
Titanium	
Tungsten	
Uranium	
Vanadium	
Yttrium	
Zinc	
Water (Inorganic)	
Recoverable Metals - Water (132)	
MTH-SPEC-11; based on SM 3030D/EPA 200.8	
ICP/MS - DIGESTION	RDL Range
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	

Boron
 Cadmium
 Calcium
 Chromium
 Cobalt
 Copper
 Iron
 Lead
 Lithium
 Magnesium
 Manganese
 Molybdenum
 Nickel
 Selenium
 Silicon
 Silver
 Sodium
 Strontium
 Terrillium
 Thallium
 Tin
 Titanium
 Tungsten
 Uranium
 Vanadium
 Yttrium
 Zinc
 Zirconium

Water (Inorganic)

Sulfide & Hydrogen Sulfide - Water (101)

MTH-EWL-38; based on SM 4500-S2-I

COLOURIMETRY

RDL Range

Hydrogen Sulfide

Sulfide

Water (Inorganic)

Sulphur Speciation - Water (076)

MTH-CHR-4; based on DIONEX (1989)/SGS LAKEFIELD RESEARCH

ION CHROMATOGRAPHY

RDL Range

Tetrathionate

Thiocyanate

Thiosulphate

Trithionate

Water (Inorganic)

Thiosalts - Water (095)

MTH-EWL-28; based on CANMET/ H. STEGAR, 1998

TITRATION

RDL Range

Thiosalts

Water (Inorganic)

Total and Dissolved Phosphorous - Water (006)

MTH-EWL-33; based on SM 4500 - P.I.

AUTO COLOR

RDL Range

Total Dissolved Phosphorous

Total Phosphorus

.01 - .05 mg/L

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (007)

MTH-EWL-32; based on SM 4500 - N.B./SM 4500-NO3-I

AUTO COLOR

RDL Range

Total Kjeldahl Nitrogen

.5 - 2.5 mg/L

Water (Inorganic)

Total Petroleum Hydrocarbons (TPH) - Water (119)

MTH-CHR-13; SGS LAKEFIELD RESEARCH

GC/FID - EXTRACTION

RDL Range

TPH (C8 to C28)

Water (Inorganic)

Total Solids - Water/Sludge (093)

MTH-EWL-23; based on SM18 2540B, C

GRAVIMETRIC

RDL Range

Total Dissolved Solids	10 - 50 mg/L
Total Solids	
Water (Inorganic)	
Total Suspended Solids (TSS) - Water (009)	
MTH-EWL-22; EPA 160.2	
GRAVIMETRIC	RDL Range
Total Suspended Solids	1 - 5 mg/L
Water (Inorganic)	
Turbidity - Water (103)	
MTH-EWL-21; based on HACH/SM 2130 B	
TURBIDIMETRIC	RDL Range
Turbidity	.1 - .5 NTU
Water (Inorganic)	
UV Transmittance - Water (150)	
MTH-EWL-30; based on HACH, SM 5910	
HACH	RDL Range
UV Transmittance	
Water (Microbiology)	
Clostridium perfringens - Water (106)	
MTH-MICRO-11; based on USEPA, 1979	
MEMBRANE FILTRATION	RDL Range
C. perfringens	
Water (Microbiology)	
Coliforms - Water (050)	
MTH-MICRO-3; based on SM SECTION 9222 B 9000/OMOE MICROMF-E3371A	
MEMBRANE FILTRATION (mENDO)	RDL Range
Background Counts	
Total Coliforms	
Water (Microbiology)	
Coliforms - Water (137)	
MTH-MICRO-1; based on MOE ;LSB-E3407A;1999	
MEMBRANE FILTRATION (DC)	RDL Range
Background	
Escherichia coli (E. coli)	
Total Coliforms	
Water (Microbiology)	
Coliforms - Water(P/A) (170)	
MTH-MICRO-14; based on SM 9221 D	
PRESENCE/ABSENCE (FLUOROCULT)	RDL Range
Escherichia coli (E. coli)	
Total Coliforms	
Water (Microbiology)	
Escherichia coli (E.coli) - Water (171)	
MTH-MICRO-6; based on SM SECTION 9222 D 9000/OMOE MICROMF-E3371A	
MEMBRANE FILTRATION (mFC-BCIG)	RDL Range
Escherichia coli (E. coli)	
Water (Microbiology)	
Fecal Coliforms - Water (172)	
MTH-MICRO-4; based on SM SECTION 9222 D 9000/OMOE MICROMF-E3371A	
MEMBRANE FILTRATION (mTEC)	RDL Range
Fecal Coliforms	
Water (Microbiology)	
Fecal Coliforms- Water (199)	
MTH-MICRO-4; based on SM SECTION 9222 D 9000/OMOE MICROMF-E3371A	
MEMBRANE FILTRATION (mTEC)	RDL Range
Fecal Coliforms	
Water (Microbiology)	
Fecal Streptococcus - Water (051)	
MTH-MICRO-8; based on SM SECTION 9230 C 9000/OMOE MICROMF-E3371A	
MEMBRANE FILTRATION	RDL Range
Fecal Streptococcus	
Water (Microbiology)	
Heterotrophic Plate Count - Water (052)	
MTH-MICRO-5; based on SM SECTION 9215 A 9000/OMOE MICROMF-E3371A	
MEMBRANE FILTRATION	RDL Range
Heterotrophic Plate Count (HPC)	
Water (Microbiology)	

Pseudomonas - Water (107)	
MTH-MICRO-12; based on SM SECTION 9213 E 9000	
MEMBRANE FILTRATION	RDL Range
Pseudomonas	
Water (Organic)	
Acid Extractables - Water (086)	
MTH-CHR-27; based on TOM-E3209A/SM 6410B	
GC/MS - EXTRACTION	RDL Range
2-Chlorophenol	
2-Methyl-4,6-dinitrophenol	
2-methylphenol	
2-Nitrophenol	
2,3,4,6-tetrachlorophenol	.1 - .5 µg/L
2,4-dichlorophenol	.1 - .5 µg/L
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2,4,5-Trichlorophenol	
2,4,6-trichlorophenol	.1 - .5 µg/L
3-methylphenol	
4-chloro-3-methylphenol	
4-methylphenol	
4-Nitrophenol	
Pentachlorophenol	.1 - .5 µg/L
Phenol	
Water (Organic)	
Dichlorobenzidine - Water (138)	
MTH-CHR-19; based on WATER QUALITY RES. J. CANADA, 2000, VOL 35, NO.2, 245-261/SGS LAKEFIELD RESEARCH	
GC/MS/MS - EXTRACTION	RDL Range
3,3 - dichlorobenzidine	
Water (Organic)	
Diquat/Paraquat - Water (074)	
MTH-CHR-5; based on USEPA 549.1	
ION CHROMATOGRAPHY	RDL Range
Diquat	
Paraquat	
Water (Organic)	
Geosmin/MIB (Taste & Odour) - Water (090)	
MTH-CHR-28; SGS LAKEFIELD RESEARCH	
GC/MS - EXTRACTION	RDL Range
2-Methylisoborneol (MIB)	
Geosmin	
Water (Organic)	
Glyphosate - Water (073)	
MTH-CHR-3; based on USEPA 547	
IC +POST COLUMN ADDITION	RDL Range
Glyphosate	5 - 25 µg/L
Water (Organic)	
Haloacetic Acids - Water (147)	
MTH-CHR-29; based on EPA 552.2	
GC/ECD/MS/MS - EXTRACTION	RDL Range
Haloacetic acids	
Water (Organic)	
Herbicides/Pesticides - Water (113)	
MTH-CHR-11; based on EPA 507/EPA 508	
GC/ECD - EXTRACTION	RDL Range
2,4-dichlorophenoxyacetic acid	.1 - .5 µg/L
2,4,5-trichlorophenoxyacetic acid	.1 - .5 µg/L
A -BHC	.01 - .05 µg/L
a - Chlordane	.1 - .5 µg/L
Aldrin	.05 - .25 µg/L
Bromoxynil	.05 - .25 µg/L
Dicamba	.1 - .5 µg/L
Diclofop-methyl (as free acid)	.1 - .5 µg/L
Dieldrin	.05 - .25 µg/L
Dinoseb	.05 - .25 µg/L
Diuron	.05 - .25 µg/L
Endosulfan I	.01 - .05 µg/L

Endosulfan II	.01 - .05 µg/L
Endosulfan Sulfate	
Endrin	.01 - .05 µg/L
g - Chlordane	.1 - .5 µg/L
Heptachlor	.1 - .5 µg/L
Heptachlor Epoxide	.1 - .5 µg/L
Lindane (gamma-BHC)	.05 - .25 µg/L
Mirex	.01 - .05 µg/L
o,p' - DDT	.5 - 2.5 µg/L
Oxychlordane	
p,p' - DDT	.5 - 2.5 µg/L
p,p' Methoxychlor	.1 - .5 µg/L
p,p'-DDD	
p,p'-DDE	
Picloram	.1 - .5 µg/L
Silvex	
Toxaphene	

Water (Organic)

Herbicides/Pesticides - Water (177)

MTH-CHR-11; based on BOYD-BOLAND AND PAWLISZYN, 1995/SGS LAKEFIELD RESEARCH/EPA 507/EPA 508

GC/TSD - EXTRACTION	RDL Range
Alachlor	
Aldicarb	.1 - .5 µg/L
Atrazine	.5 - 2.5 µg/L
Azinphos-methyl	.1 - .5 µg/L
Bendiocarb	.1 - .5 µg/L
Carbaryl	.1 - .5 µg/L
Carbofuran	.1 - .5 µg/L
Chlorpyrifos (ethyl)	
Cyanazine	
Desethyl Atrazine	
Diazinon	.05 - .25 µg/L
Dimethoate	.1 - .5 µg/L
Malathion	.05 - .25 µg/L
Methyl Parathion	
Metolachlor	.05 - .25 µg/L
Metribuzin	.1 - .5 µg/L
Parathion (ethyl)	
Phorate	.1 - .5 µg/L
Prometryne	
Simazine	.1 - .5 µg/L
Temephos	
Terbufos	.1 - .5 µg/L
Triallate	
Trifluralin	.1 - .5 µg/L

Water (Organic)

Herbicides/Pesticides - Water (178)

MTH-CHR-11; based on BOYD-BOLAND AND PAWLISZYN, 1995/SGS LAKEFIELD RESEARCH/EPA 507/EPA 508

GC/MS	RDL Range
2,4-dichlorophenoxyacetic acid	.1 - .5 µg/L
2,4,5-trichlorophenoxyacetic acid	.1 - .5 µg/L
a - Chlordane	.1 - .5 µg/L
Alachlor	
Aldicarb	.1 - .5 µg/L
Aldrin	.05 - .25 µg/L
Bromoxynil	.05 - .25 µg/L
Desethyl Atrazine	
Dicamba	.1 - .5 µg/L
Diclofop-methyl (as free acid)	.1 - .5 µg/L
Dieldrin	.05 - .25 µg/L
g - Chlordane	.1 - .5 µg/L
Heptachlor	.1 - .5 µg/L
Heptachlor Epoxide	.1 - .5 µg/L
Lindane (gamma-BHC)	.05 - .25 µg/L
Methyl Parathion	
o,p' - DDT	.5 - 2.5 µg/L
Oxychlordane	

p,p' - DDT	.5 - 2.5 µg/L
p,p' Methoxychlor	.1 - .5 µg/L
p,p'-DDD	
p,p'-DDE	
Parathion (ethyl)	.1 - .5 µg/L
Phorate	.1 - .5 µg/L
Picloram	.1 - .5 µg/L
Prometryne	
Silvex	
Simazine	.1 - .5 µg/L
Temephos	
Terbufos	.1 - .5 µg/L
Toxaphene	
Triallate	
Trifluralin	.1 - .5 µg/L
Water (Organic)	
N-nitrosodimethylamine (NDMA) - Water (166)	
MTH-CHR-23; OMOE-E3209A/SM 6410 B	
GC/MS/MS/CI - EXTRACTION	RDL Range
N-Nitrosodimethylamine	
Water (Organic)	
Nitrilotriacetic Acid (NTA) - Water (110)	
MTH-CHR-20; based on J. CHROM A, 690 (1995)/SGS LAKEFIELD RESEARCH	
GC/MS	RDL Range
Nitrilotriacetic Acid (NTA)	
Water (Organic)	
PAH Extractables - Water (011)	
MTH-CHR-16; based on EPA 3510C/OMOE TOM-E3209A/SM 6410B	
GC/MS - EXTRACTION	RDL Range
2,4-Dinitrotoluene	
Acenaphthene	
Acenaphthylene	
Anthracene	
Benzo (a) anthracene	.005 - .025 µg/L
Benzo (a) pyrene	.001 - .005 µg/L
Benzo (b) fluoranthene	.01 - .05 µg/L
Benzo (g,h,i) perylene	.01 - .05 µg/L
Benzo (k) fluoranthene	.01 - .05 µg/L
Chrysene	
Dibenzo (a,h) anthracene	
Fluoranthene	.01 - .05 µg/L
Fluorene	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachloroethane	
Indeno (1,2,3 - cd) pyrene	.01 - .05 µg/L
Naphthalene	
Nitrobenzene	
Phenanthrene	.01 - .05 µg/L
Pyrene	.01 - .05 µg/L
Water (Organic)	
Total PCB - Water (010)	
MTH-CHR-8; based on ASTM D4059-86/SGS LAKEFIELD RESEARCH	
GC/ECD - EXTRACTION	RDL Range
Total PCB	.01 - .05 µg/L
Water (Organic)	
Volatile Organic Compounds (VOC) - Water (017)	
MTH-CHR-14; based on OMOE E 3189 A EPA 524.2/EPA 624	
GC/MSD - PURGE AND TRAP	RDL Range
1,1-Dichloroethane	
1,1-dichloroethylene	.5 - 2.5 µg/L
1,1-Dichloropropene	
1,1,1-Trichloroethane	
1,1,1,2-Tetrachloroethane	
1,1,2-Trichloroethane	
1,1,2,2-Tetrachloroethane	
1,2-Dibromoethane	

1,2-dichlorobenzene	.5 - 2.5 µg/L
1,2-dichloroethane	.1 - .5 µg/L
1,2-Dichloropropane	
1,2,4-Trichlorobenzene	
1,3-Dichlorobenzene	
1,3-Dichloropropane	
1,4-dichlorobenzene	.1 - .5 µg/L
2-chloroethyl vinyl ether	
Acetone	
Benzene	.1 - .5 µg/L
Bromobenzene	
Bromochloromethane	
Bromodichloromethane	.0001 - .0005 µg/L
Bromoform	.0001 - .0005 µg/L
Bromomethane	
Carbon Tetrachloride	.1 - .5 µg/L
Chlorobenzene	.5 - 2.5 µg/L
Chlorodibromomethane	.0001 - .0005 µg/L
Chloroethane	
Chloroform	.0001 - .0005 µg/L
Chloromethane	
cis-1,2-Dichloroethylene	
cis-1,3-dichloropropene	
Dibromomethane	
Dichloromethane	1 - 5 µg/L
Ethylbenzene	.0001 - .0005 µg/L
m/p-xylene	.0001 - .0005 µg/L
Methy-t-butyl ether	
Methyl Ethyl Ketone	
Methyl Isobutyl Ketone	
Methyl-n-butyl ketone	
o-xylene	.0001 - .0005 µg/L
Pyridine	
Styrene	
Tetrachloroethylene	.1 - .5 µg/L
Toluene	.0001 - .0005 µg/L
trans-1,2-Dichloroethylene	
trans-1,3-dichloropropene	
Trichloroethylene	.5 - 2.5 µg/L
Trichlorofluoromethane	
Vinyl Chloride	
