

**Attachment I**

**WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT**

**Annual Certified Parameter List**

**for**

**SOUTHERN PETROLEUM LABORATORY, INCORPORATED - MICHIGAN LABORATORY  
TRAVERSE CITY, MICHIGAN**

**PARAMETERS CERTIFIED**

**LIMITED CHEMISTRY:** Sulfate(ASTM D516-90,02), Specific Conductance(EPA120.1 Rev-1982), Alkalinity(SM18th2320 B), Chloride(SM18th4500-Cl E), pH, (Field Test)(SM18th4500-H B), Phosphorus, Total(SM18th4500-P B.5 + SM18th4500-P E), Phosphorus, Ortho(SM18th4500-P E)

**Demand:** Oxygen, Chemical, (COD)(EPA410.4 Rev 2.0-1993), Oxygen, Biochemical, (BOD)(SM18th5210 B)

**Nitrogen:** Ammonia(EPA350.1 Rev 2.0-1993), Kjeldahl, Total, (TKN)(SM18th4500Norg B + SM18th4500NH3 C)

EPA353.2 Rev 2.0-1993 - Nitrate, Nitrate-Nitrite, Nitrite

**Solids:** Total(SM18th2540 B), Dissolved(SM18th2540 C), Suspended(SM18th2540 D)

**METALS:**

**CVAA:** Mercury(SW7470A), Mercury(SW7471B)

**Miscellaneous:** Chromium, Hexavalent(SW7196A)

**ICP/MS:**

SW6020A - Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc

**ORGANICS:**

**GC/HPLC:** Polynuclear Aromatic Hydrocarbons(SW8310)

**GC/MS:** Volatile Organic Compounds(SW8260B), Semivolatile Organic Compounds(SW8270C)

**GC:** Nonhalogenated Volatile Organics(SW8015B), Halogenated & Aromatic Volatiles(SW8021B), Polychlorinated Biphenyls(SW8082)

**HAZARDOUS WASTE:**

**Extractions:** Separatory Funnel Liquid-Liquid(SW3510C), Ultrasonic(SW3550B)


**Digestion:** Acid Digestion of Aqueous Samples & Extracts (GFAA & ICP/MS)(SW3020A), Acid Digestion of Sediments, Sludges & Soils(SW3050B)

**Toxicity:** TCLP (Metals & Organics)(SW1311)

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires On, **31 August 2009**.

Certificate No. **301** .

 Issued On, 30 April 2008.

David F Wolfe, PhD  
Quality Assurance Officer