

5.0 LABORATORY ANALYTICAL TESTING REQUIREMENTS

Each sample (also referred to as “test profile” in the following sections) shall be analyzed for the following parameters:

- Volatile Organic Compounds (VOCs) by EPA Method 8260;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;
- RCRA 8 Metals or preferably MCP 14 Metals, which include in addition to the RCRA 8 Metals, antimony, beryllium, nickel, thallium, vanadium and zinc. The LSP should explain the rationale for not analyzing for these additional metals in the approval request;
- Pesticides by EPA Method 8081 (may be excluded or limited based on site history);
- Herbicides by EPA Method 8151 (may be excluded or limited based on site history);
- Total Petroleum Hydrocarbons (TPH) (summation of EPH fractions can be substituted);
- Reactivity (cyanide/sulfide);
- pH/Corrosivity by EPA Method 9045;
- Ignitibility/flashpoint by EPA Method 1010;
- Specific Conductance (Conductivity) by EPA Method SM2540 ; and
- Any other potential constituents based on location-specific history.
- Analysis for hexavalent chromium will be required on every sample that exceeds RCS-1 for total chromium.
- TCLP analysis will be required of each compound that exceeds the “20X Rule” threshold value.
- Averaging of concentrations is allowed if the following conditions can be met: 1) no analyte concentration can exceed 25% of the reportable concentration; and 2) the average concentration must be less than the soil acceptance criteria specified in Appendix G.
- Soil containing arsenic greater than RCS-1 from anywhere is not acceptable.

Any deviation from this sampling protocol must be clearly explained in the Request for Approval soil package.