

- Testing data sheets and summaries;
- Changes from design and material specifications; and
- All QA/QC documentation.

9.6 252:515-11-7 ODEQ Authorization Required

As required by 252:515-11-7, no waste will be placed on the newly constructed liner until it is authorized by the ODEQ.

9.7 252:515-11-31(b) Liner Construction Standards

As demonstrated on Drawing No. 8 in Appendix D, the in-situ liner will be at least 5-feet thick and will have a hydraulic conductivity of less than or equal to 1×10^{-5} cm/sec. A small area of earth fill will occur along the western slope of the expansion area. The upper 3-feet of the fill will be constructed in accordance with the QA/QC Plan in Appendix H and will have a hydraulic conductivity of less than or equal to 1×10^{-5} cm/sec. If, for any reason, a clay liner is required for other areas, it will also be constructed 3-feet thick, have a hydraulic conductivity of less than or equal to 1×10^{-5} cm/sec. and constructed in accordance with the QA/QC Plan in Appendix H.

9.8 252:515-11-32 Preconstruction Tests

As demonstrated in the Soil Report in Appendix G, all of the tests listed below were completed on soil found at the Creek County Landfill that would be suitable for clay liner.

- Soil Classification (ASTM D2487);
- Particle Size Analysis of Soil (ASTM D422);
- Sieve analysis of the following screens: #4, #10, #40, #200;
- Percent Fines (#200 sieve) (ASTM D1140);
- Atterberg limits (ASTM D4318);
- Moisture Content (ASTM D2216 or ASTM D4643);
- Moisture-Density Relationship (ASTM D698 to ASTM D1557); and
- Hydraulic Conductivity (ASTM D5084).

The QA/QC Plan also indicates that the above referenced tests will be completed again prior to construction of any cell at the Creek County Landfill. The sampling frequency shall be one sample per 10,000 cubic yards of soil or as material changes. The test results will be included in the Liner Installation and Testing Report that is required to be submitted to the ODEQ prior to waste acceptance.

9.9 252:515-11-33 Liner Soil Standards

A majority of each test for the following design standards will be met so long as the hydraulic conductivity standard is satisfied: