

## PROJECT SUMMARY – CLEAN CONSTRUCTION AND DEMOLITION DEBRIS

**CLIENT:** Developer

**PROJECT:** Management of excess soil from development of a commercial site in the Chicago area



### PROJECT CHALLENGE:

Samples from a stock pile of 6,500 tons of soil contained TCLP concentrations of manganese above the allowable state standards. Potential cost of disposal of the soil as a special waste was estimated to be approximately \$500,000.

### SCOPE OF WORK:

The scope of work consisted of re-evaluating the stock pile to determine if the material could be managed as clean construction or demolition debris (CCDD) or clean fill. Mostardi Platt confirmed with the IEPA that the concentrations of manganese could be evaluated using the SPLP analytical test instead of the TCLP test. The SPLP leachable test simulates the leachable portion of a metal from soil in relation to “acid rain” exposure. The TCLP test simulates the harsh conditions of landfill leachate and uses a much stronger acid in the laboratory extraction.

Mostardi Platt collected 18 soil samples from the stockpile of soil and analyzed all of the samples using the SPLP test for manganese. The results indicated that all 18 samples were

either non-detect for manganese or were below the most stringent allowable concentration for manganese.

Mostardi Platt prepared the necessary CCDD certification for the 6,500 tons of soil. The certification included an explanation of both the TCLP and SPLP data which demonstrated that the SPLP data was valid. The SPLP data was used as the basis for classifying the soil as clean construction or demolition debris.

The CCDD landfill approved the certification and agreed to accept the material as clean construction or demolition debris. The cost for disposal of the 6,500 tons of soil as clean construction debris was approximately \$150,000.

Mostardi Platt’s re-evaluation of the stockpiled soil using the SPLP analyses resulted in a project savings of approximately \$350,000.