

**ITEM01203.011x M SAMPLING AND LABORATORY ANALYSIS OF SOIL FOR WASTE CHARACTERIZATION PARAMETERS DESCRIPTION**

Sample soil and analyze sample at an approved laboratory for contamination and waste characterization parameters. The analyses are included to provide determination or confirmation of the regulatory classification of soils as petroleum contaminated, non-hazardous contaminated, Resource Conservation and Recovery Act (RCRA) regulated hazardous wastes and/or other disposal parameters as appropriate for the waste soil excavated within this project. Any analyses required by the Contractor's intended disposal facility that are not specifically required by items in this Contract are the Contractor's responsibility and shall be included in the unit cost for the disposal item.

**MATERIALS** None Specified

**CONSTRUCTION DETAILS**

The lead times for submittals included in these Construction Details are for work that is included in the original project contract where the potential for contamination is expected. For work that was not included in an original project contract resulting from unexpected encountering of potentially contaminated soil which does not allow for indicated lead times, the time frames for submittals and notifications will be negotiated at the time of the agreement for this work.

**I. Sampling Plan** - At least 30 days prior to commencing work in the contaminated soil excavation areas, prepare and submit a Sampling Plan (the Plan) to the Engineer-in-Charge (EIC) and the Department Regional Landscape Architecture Environmental Services Unit for review and acceptance. The Plan shall include the name, address, ELAP status and telephone number of the proposed laboratory for waste criteria analysis. The laboratory must be approved by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) for the intended analyses. Include training and experience of the personnel who will collect samples.

*Note: If other laboratory sampling and analysis of contaminated soil items are specified in this contract, the sampling plan may be a combined plan to address all sampling and analysis requirements. If a Disposal Plan is required under other items of work (i.e., Disposal of Contaminated Soil) for this contract, the Contractor may include the information for this sampling plan in the Disposal Plan.*

**II. Sampling and Laboratory Analysis:**

A. All sampling shall be conducted by a person trained in sampling protocols using standard accepted sampling practices for obtaining representative samples. Collect composite sample(s) of suspected contaminated soil stockpiles as soon as possible upon excavation of soil destined for disposal or reuse. Collect representative composite samples of the soil from potentially contaminated piles from a depth of greater than 30 centimeters within a stockpile including, at a minimum, four sample points for each composite sample. Conduct all analyses at a NYS Department of Health approved laboratory certified to perform the required tests. Complete analyses within 10 working days of sample collection. Provide a copy of the analysis report to the EIC within 2 days of completed analysis. Complete the following analysis as included in this project:

- i. 01203.0111 M - Petroleum Contamination Parameter Analysis - Analyze sample for NYSDEC (New York State Department of Environmental Conservation) STARS (Spill Technology and Remediation Series) Memo #1 petroleum contamination constituents (total constituent analysis) using USEPA Method 8021 for volatile organics and methyl t-butyl ether (MTBE) and Method 8270 for base/neutrals.
- ii. 01203.0112 M - Hazardous Waste RCRA Toxicity Characteristic (TCLP) Analysis - Analyze sample for the full TCLP (Toxicity Characteristic Leaching Procedure) constituents. (Prepare extract using EPA Method 1311).
- iii. 01203.0113 M - Hazardous Waste Ignitability Analysis - Analyze sample for the characteristic of Ignitability by USEPA Method 1030.
- iv. 01203.0114 M - Hazardous Waste Corrosivity Analysis - Analyze sample for the characteristic of Corrosivity by USEPA Method 9045.

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v. 01203.0115 M - Polychlorinated Biphenyls (PCB's) Analysis - Analyze sample for PCBs by USEPA method 8082).

vi. 01203.0116 M - Total Petroleum Hydrocarbons (TPH) Analysis - Analyze sample for TPH.

*Note: The cost of any additional analyses required by the Contractor's intended disposal facility additional to these analyses requested by DOT shall be included in the unit cost for the disposal item.*

**METHOD OF MEASUREMENT** The quantity shall be measured by the actual number of samples collected and analyzed as directed by the specifications and the EIC.

**BASIS OF PAYMENT** The unit price shall include the cost of furnishing all labor, materials, equipment, and documentation necessary to complete the work.

Payment will be made under:

ITEM NO.	ITEM DESCRIPTION	PAY UNIT
01203.0111 M	- PETROLEUM CONTAMINATION PARAMETER ANALYSIS	EACH
01203.0112 M	- HAZARDOUS WASTE RCRA TOXICITY CHARACTERISTIC (TCLP) ANALYSIS	EACH
01203.0113 M	- HAZARDOUS WASTE IGNITABILITY ANALYSIS	EACH
01203.0114 M	- HAZARDOUS WASTE CORROSIVITY ANALYSIS	EACH
01203.0115 M	- POLYCHLORINATED BIPHENYLS (PCB'S) ANALYSIS	EACH
01203.0116 M	- TOTAL PETROLEUM HYDROCARBONS (TPH) ANALYSIS	EACH