

ITEM 15202.1601 M - EXCAVATION OF PETROLEUM-CONTAMINATED (NON-HAZARDOUS) SOIL WITH DISPOSAL AS EMBANKMENT OR FILL WITHIN PROJECT LIMITS

ITEM 15202.1602 M - EXCAVATION OF PETROLEUM-CONTAMINATED (NON-HAZARDOUS) SOIL WITH DISPOSAL OUTSIDE PROJECT LIMITS

DESCRIPTION

Excavate, sample, dewater, stockpile, transport, test, treat, construct embankment when designated on the plans, and/or dispose of off site and complete any other handling required for proper management and disposal of petroleum-contaminated (non-hazardous waste) soil. The materials covered by this specification are soil and water that are contaminated with a petroleum product but do not meet the criteria for definition as a hazardous waste. The petroleum product may include, but is not limited to: gasoline, heating oils, kerosene, diesel fuel, jet fuel, lubricating oils, motor oils, greases, and other fractions of crude oil.

This specification includes items for excavation and disposal of contaminated soil by:

- A. **Disposal within the project limits as Embankment or Fill, hereafter termed "Disposal as Embankment or Fill"; and**
- B. **Disposal at off-project facilities as described below, hereafter termed as "Disposal as other than Embankment or Fill".**

Disposal options under B above include:

- Transport and disposal at off-site treatment or disposal facility; or
- Treatment on site by methods such as incineration followed by disposal as clean fill. Determine acceptability and obtain approval and any necessary permits from the New York State Department of Environmental Conservation (NYSDEC) for any on-site treatment; or
- Reuse in applications that have received generic or case-specific beneficial use determinations (BUD's) from the NYSDEC for soil that meets applicable criteria based on the analytical results from the previous investigations. Such alternatives include, but are not limited to, cold-mix and hot-mix asphalt manufacture on site or at permitted off-site facilities.

Conduct all tasks associated with these items in accordance with all Federal, State, County, and local regulations.

MATERIALS

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Furnish all materials required by the Contractor's approved Material Handling Plan. As a minimum, furnish:

- 20 mil minimum plastic sheeting for base of any stockpiles;
- 6 mil plastic sheeting for covering of any stockpiles, trucks, and/or rolloffs

CONSTRUCTION DETAILS

I. Advance Preparation (For all disposal items)

A. Material Handling Plan (For all disposal items) - At least 30 days prior to commencing work in the petroleum-contaminated areas, prepare and submit a Material Handling Plan (the Plan) to the Engineer-in-Charge (EIC) for review and approval. The Plan must be approved by the EIC prior to the commencement of work within the defined areas. Include, as a minimum, written procedures detailing the operations to be used to excavate, move, and dispose of contaminated soil and water. Procedures must include personnel safety and health as well as environmental protection considerations.

For Disposal other than Embankment/Fill, also include in the Plan the following specific information describing:

1. The method of treatment/disposal that will be used;
2. All staging/stockpiling areas (if stockpiling areas are intended and available), or alternative procedures that will be used. Alternative procedures could include, but are not limited to, agreements from the intended disposal or treatment facilities to accept boring data and/or analytical data previously obtained during the site characterization so that materials may be directly loaded into vehicles for shipment to the disposal facility or the use of off-site stockpiling locations approved by the New York State Department of Environmental Conservation (NYSDEC);
3. Identification of and information on the proposed treatment/disposal facilities to include: Facility name; address; contact person; signed letter of agreement from the facility of intent to accept the waste as specified in the contract; listing of all permits, licenses, letters of approval authorizing the disposal of wastes of this description at the designated facility as they pertain to this Contract;
4. For off-site treatment/disposal, identification of and information on the proposed waste transporter to include: Name; address; telephone number; contact person; EPA and NYS Transporter ID number; and any and all necessary permit authorizations for waste to be transported from the site to treatment/disposal facilities;
5. If applicable, description of all sampling and field/laboratory analyses that will be needed to obtain disposal facility approval; and

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6. If soil will be treated on site, all permits and approvals necessary for any intended on-site treatment, disposal, and discharge. The treated soil will become the property of the Contractor.

B. Notifications - Prior to beginning the work, provide the EIC with the anticipated scheduled dates and work locations for removal/treatment of all contaminated materials. Also prior to beginning the work, contact the NYSDEC in writing and provide that office with the scheduled dates for removal/treatment of all contaminated materials and excavation and stockpile locations. Provide a copy of this correspondence to the EIC.

II. Material Handling

For Either Excavation and Disposal Item:

A. Excavate contaminated material and:

1. Directly place as embankment or fill material in accordance with the contract documents; and/or
2. Load directly into trucks/tankers/rolloffs for disposal off site; or
3. If interim stockpiling is required, place the stockpile on a minimum of 20 mil or equivalent plastic ground cloth and cover by 6 mil minimum polyethylene sheeting or equivalent to protect against leaching or runoff of contaminants into groundwater or storm water. Weight or secure the sheeting by appropriate means and seal seams as approved by the EIC to prevent tearing or removal by weather. Grade surrounding surface to provide for positive drainage away from the pile.

B. Institute appropriate procedures and security measures to ensure the protection of site personnel and the public from petroleum-contaminated materials as described in the approved Material Handling Plan.

C. Segregate into stockpiles and notify the EIC promptly of any soil that appears to contain unknown contaminants (based on visual, odor, or other observation) or that varies significantly from the material originally identified. Construct stockpiles to the same requirements as stated in II.A.3.

D. Provide any dewatering that is necessary to complete the work. Pump out, treat as necessary and discharge contaminated water to:

1. A water discharge point with a valid SPDES (State Pollutant Discharge Elimination System) permit if discharge is in compliance with all permit conditions;

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2. A wastewater treatment plant if discharge is in compliance with all permit requirements; and/or
3. Other permitted facilities.

Sample and analyze water as required by the intended discharge and/or disposal means. Include handling and disposal procedures for contaminated water in the Plan, as outlined in Advance Preparation, above.

E. Provide and operate field organic vapor test equipment, a photo ionization detector (PID) or a flame ionization detector (FID), to detect general organic vapor/flammability levels at intervals of approximately 40 cubic meters of soil excavated and/or as directed by the EIC.

For Disposal by Other than Embankment or Fill at the Project Site:

The disposal/treatment facility may require laboratory testing of a representative sample for criteria of hazardous waste or for other criteria at a certified laboratory. If necessary, conduct all sampling and laboratory analysis that is required by the disposal facility and/or method. Collect samples from each stockpile as soon as possible after pile is generated. Provide a copy of the analysis report to the EIC within 10 days of receipt. No removal of waste materials shall occur prior to the EIC's receipt of the laboratory report.

Alternatively, it is acceptable to DOT if the disposal facility agrees to accept analytical data already obtained in the hazardous waste assessment.

III. Transportation Off Site

- A. Load and transport contaminated materials in vehicles with a valid 6 NYCRR Part 364 Waste Transporter Permit (and permits for any other states as applicable). Verify and document that the transporter has a current waste transporter's permit authorizing the transport of the project waste materials to the intended off-site facility. Coordinate all shipments and arrivals at the disposal facility to meet project schedule requirements. Complete any required shipping papers, placarding, and weighing/ load measurements and provide documentation/copies to the EIC.
- B. Cover rollofs and trucks to prevent runoff or evaporation of contaminants and blowing of soil both while in storage and during transport off site. Verify that any trucks/tankers used to transport materials with free-flowing liquid are not leaking.
- C. Perform actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off site associated with this project.
- D. Do not combine material from any other source with material from the Project Site.

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IV. Disposal/Treatment

For Disposal As Project Embankment or Fill:

Place contaminated soil as embankment or fill in accordance with the requirements contained in Section 203 and/or other applicable sections of the Standard Specifications.

For Disposal Other than as Embankment or Fill:

Dispose of contaminated material by the methods and procedures described in the Material Handling Plan as approved by the EIC. Dispose of all contaminated materials within 30 days of stockpiling or within 30 days of the results of laboratory analysis, whichever is later, unless additional time is approved by the EIC. Do not, however, dispose of any material prior to the receipt of laboratory results by the EIC. *Note: If the EIC approves additional stockpiling time, the Contractor must also request approval from NYSDEC for any storage greater than 60 days as required by NYS Solid Waste Management regulations, 6 NYCRR Part 360.1.7(b)(4).*

BASIS FOR ACCEPTANCE Submission of evidence that all material has been handled and disposed of in accordance with the approved Material Handling Plan will be the basis of acceptance for work completion.

METHOD OF MEASUREMENT Quantities of excavated contaminated soil will be measured in cubic meters as computed in the original position.

BASIS OF PAYMENT

The unit price shall include the cost of furnishing all labor, materials, equipment, transportation, pumping, construction of embankment(s) or placement of fill when designated, disposal off site, Material Handling Plan preparation, sampling, testing, documentation, permits, stockpiling, cleanup of spillage during transportation and any other incidentals necessary to complete the work.

Payment will be made under:

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>PAY</u>
15202.1601M -	EXCAVATION OF PETROLEUM-CONTAMINATED (NON-HAZARDOUS) SOIL WITH DISPOSAL AS EMBANKMENT OR FILL WITHIN PROJECT LIMITS	Cubic Meter
15202.1602M -	EXCAVATION OF PETROLEUM-CONTAMINATED NON-HAZARDOUS) SOIL WITH DISPOSAL	Cubic Meter

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Soil (cont)

OUTSIDE PROJECT LIMITS

This Specification is
Dis-Approved