

**ITEM 05203.1301 M - HANDLING, TRANSPORTATION, AND DISPOSAL OF
HAZARDOUS SOIL**
ITEM 05203.1302 M - HAZARDOUS SOIL SAMPLE ANALYSES
ITEM 05203.1303 M - POST EXCAVATION SAMPLE ANALYSES

DESCRIPTION:

A. General: This work shall consist of handling, testing, transportation, and disposal of hazardous soil.

The Contractor shall ensure that all operations associated with the handling, loading, transportation, and disposal of hazardous materials are in compliance with applicable US Department of Transportation (USDOT), Environmental Protection Agency (EPA) regulations, as well as all applicable NYS Department of Environmental Conservation and local regulations.

The Contractor shall document the handling, and testing, transportation and disposal of hazardous soils. The New York State Electric and Gas shall be listed in the Disposal Documents as the Waste Generator and will provide the EPA ID Number

The Contractor shall supply all equipment, material and labor required to conduct the specified work of this section.

The Contractor shall handle all excavated material in a manner to protect site personnel, the public and the environment in accordance with all applicable Federal, State, and local laws and regulations.

B. Regulations: Applicable regulations include:

1. 49 CFR 100 to 179 - USDOT Hazardous Materials Transport and Manifest System Requirements.
2. 40 CFR 260 to 272 - Hazardous Waste Management (RCRA).
3. 6 NYCRR 360 - Solid Waste Management Facilities.
4. 6 NYCRR 364 - Waste Transporter Permits.
5. 6 NYCRR 371 - Identification and Listing of Hazardous Wastes.
6. 6 NYCRR 372 - Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities.
7. 6 NYCRR 373-1 - Hazardous Waste Treatment, Storage and Disposal Facility Permitting Requirements.
8. 6 NYCRR 376 - Land Disposal Restrictions.
9. Posted weight limitations on roads on bridges.

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10. Other local restrictions on transportation of waste/debris.

C. Material Handling Plan. At least 30 days prior to commencing work, the Contractor shall submit to the EIC and the New York State Department of Environmental Conservation (NYSDEC) and the New York State Electric and Gas (NYSEG) for their review and approval, a Material Handling Plan. The Material Handling Plan must be approved by the EIC, NYSDEC and NYSEG prior to the Contractor's commencement of work within the defined areas. The Material Handling Plan shall, at a minimum, consist of:

1. The Contractor's procedures for safely handling hazardous soil or soil which has not yet been tested but is believed to be potentially hazardous.
2. Identification of the Contractor's proposed waste transporter(s). This information shall include:
 - a. Name and EPA identification number.
 - b. Address.
 - c. Name of responsible contact for the hauler.
 - d. Telephone number for the contact.
 - e. Any and all necessary permit authorizations for each type of waste transported.
 - f. Previous experience in performing the type of work specified herein.
3. Identification of the Contractor's proposed Treatment, Storage, or Disposal (TSD) Facility for hazardous soil.
4. The Contractor shall submit the following information prior to disposal. The expense of furnishing all information will be included in the Contractor's bid price:
 - a. General Information. Facility name and EPA identification number.
 - (1) Facility location.
 - (2) Name of responsible contact for the facility.
 - (3) Telephone number for contact.
 - (4) Signed letter of agreement to accept waste as specified in this Contract, including land ban certification for wastes that may not be land-disposed.
 - (5) Unit of measure utilized at facility for costing purposes.

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- b. A listing of all permits, licenses, letters of approval, and other authorization to operate, which are currently held and valid for the proposed facility as they pertain to receipt and management of wastes derived from this Contract.
 - c. A listing of all permits, licenses, letters of approval, and other authorizations to operate which have been applied for by the proposed facility but not yet granted or issued. Provide dates of application(s) submitted. Planned submittals shall also be noted.
 - d. The Contractor shall specify and describe the disposal/containment unit(s) that the proposed facility will use to manage the waste and provide dates of construction and beginning of use, if applicable. Drawings may be provided. The Contractor shall identify the capacity available in the units and the capacity reserved for the subject waste.
 - e. The Contractor shall provide the date of the proposed facility's last compliance inspection under RCRA.
 - f. A list of all active (unresolved) compliance orders (or agreements), enforcement notices, or notices of violations issued to the proposed facility shall be provided. The source and nature of the cause of violation shall be stated, if known. If ground water contamination is noted, details of the facility's ground water monitoring program shall be provided.
5. The name, address, and telephone number of the contact for the Contractor's proposed chemical laboratory.

CONSTRUCTION DETAILS:

A. Material Handling

1. The Contractor shall institute procedures to protect site personnel and the public from the non-hazardous and hazardous material as described in the Interim Remedial Measures Health and Safety Plan (IRMHSP) prepared by NYSEG and approved by NYSDEC. The IRMHSP is contained in the contract documents.
2. The excavation area will be covered with contiguous overlapping 6-Mil polyethylene sheeting in inactive areas, at the end of each work day and when ordered by the EIC. At the end of all excavation activities, contiguous overlapping undamaged polyethylene sheeting will be placed and secured as a visual marker of the limit of excavation.

B. Sampling and Testing

1. Sampling and Testing Hazardous Soil

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Sampling will be conducted by a NYSEG technician. Analyses of the sample is the responsibility of the Contractor. One worst case grab sample will be collected from each roll-off container and analyzed for the parameters listed in Tables 4-1, 4-2, 4-3, 4-4, and 4-5 (of the IRM) and Total Petroleum Hydrocarbon (TPH) using EPA approved test methods for those parameters. The Contractor must also contact the disposal facility where the hazardous waste will be sent for permanent disposal, and arrange to collect any additional samples and provide any additional analyses which that facility may require.

2. Post Excavation Sampling and Testing

These samples must be collected at the site to confirm that all hazardous wastes have been completely removed from the excavation. NYSEG shall collect samples after completing excavation for the bridge and related road work, as specified in the plans, and in any suspect hazardous waste areas. The analyses of these samples is the responsibility of the Contractor. These samples will be analyzed using EPA accepted laboratory methods for TCL volatiles and TCL semi-volatiles, total cyanide and BTEX. The results of this testing will confirm the complete removal of hazardous soils and demonstrate that the cleanup objectives have been met.

3. Sampling Plan

- a. Samples shall be collected by NYSEG and given to the Contractor for analyses.
- b. Samples shall be submitted to the laboratory within holding times for the parameters analyzed.
- c. All analyses must be done by a laboratory that has received approval from the State Health Department's Environmental Laboratory Approval Program (ELAP) for the methods to be done. The Contractor must specify the laboratory in the Material Handling Plan.
- d. Analytical results must be submitted to the EIC within two weeks after sample collection.
- e. All soil determined to be hazardous shall be delivered to the permanent disposal hazardous waste facility within 45 calendar days after approval of the facility by the EIC, NYSDEC and NYSEG.
- f. If the analytical results show the excavated material to be nonhazardous, it may NOT be returned to the site for any reason. The Contractor will dispose of the material as nonhazardous, industrial waste using the analytical results to dispose of it properly. Disposal of non hazardous contaminated material will be paid for under item 05203.9501 M.

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C. Off-Site Transportation and Disposal

1. The Contractor shall acquire the necessary transportation permits, and any other items and services required for transporting hazardous material for storage and/or disposal at an approved off-site facility.
2. General
 - b. Manifests. The Contractor shall organize and maintain the material shipment records/ manifests required by the Federal Resource Conservation and Recovery Act (RCRA) (Public Law 94-580), the State of New York and the state where the TSD facility is located.
 - c. The Contractor shall coordinate the schedule for truck arrival and material deliveries at the job site to meet the approved project schedule. The schedule shall be compatible with the availability of equipment and personnel for material handling operations at the job site.
 - d. The Contractor shall inspect all vehicles leaving the project site to ensure that hazardous soils adhering to the wheels or under carriage are removed prior to the vehicle leaving the site.
 - e. The Contractor shall obtain letters of commitment from the waste haulers and the TSD facility to haul and accept shipments. The letter shall indicate agreement to handle and accept the specified estimated quantities and types of material during the time period specified in the project schedule and any time extension as deemed necessary.
 - f. NYSEG will obtain an EPA identification number and will sign the manifest(s) as the generator.
3. Hauling.
 - a. The Contractor shall not deliver waste to any facility other than the TSD facility listed on the shipping manifest.
 - b. The Contractor shall coordinate manifesting, placarding of shipments, and vehicle decontamination. All quantities shall also be measured and recorded upon arrival at the TSD facility. If any deviation between the two records occurs, the matter is to be reported immediately to the EIC.
 - c. The Contractor shall be held responsible for any and all actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off-site. This cleanup shall be accomplished at the Contractor's expense and to the satisfaction of the EIC.

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- d. The Contractor shall be responsible for inspecting the access routes for road conditions, overhead clearance, and weight restrictions.
 - e. The Contractor shall only use the transporter(s) identified in his Material Handling Plan for the performance of work. Only a transporter with a current Part 364 Waste Transporter Permit from New York State Department of Environmental Conservation may transport this material. Any use of substitute or additional transporters must have previous written approval from the EIC at no additional cost to the NYSDOT.
 - f. The Contractor shall develop, document, and implement a policy for accident prevention.
 - g. The Contractor shall not combine hazardous materials from other projects with material from this project.
4. Off-Site Disposal
- a. The Contractor shall use only the TSD facility identified in his Material Handling Plan for the performance of the work. Substitutions or additions shall not be permitted without prior written approval from the EIC, and if approved shall be at no extra cost to the NYSDOT.
 - b. The Contractor shall be responsible for acceptance of the material at an approved TSD facility, for ensuring that the facility is properly permitted to accept the stated material, and that the facility provides the stated storage and/or disposal services.
 - c. The EIC reserves the right to contact and visit the disposal facility and regulatory agencies to verify the agreement to accept the stated material and to verify any other information provided. This does not in any way relieve the Contractor of his responsibilities under this Contract.
 - d. In the event that the identified and approved facility ceases to accept the stated materials or the facility ceases operations, it is the Contractor's responsibility to locate an alternate approved and permitted facility for accepting materials. The Contractor is responsible for making the necessary arrangements to utilize the facility, and the alternate facility must be approved in writing by the EIC in the same manner and with the same requirements as for the original facility. This shall be done with no extra cost or delay to the NYSDOT.
5. Record Keeping . The Contractor shall obtain manifest forms, material code numbers, and complete the shipment manifest records as required by the appropriate regulatory agencies for verifying the material type (Code No.) and quantity of each load in unit of volume and weight. Copies of each manifest shall be submitted to the EIC within four (4) business days following shipment, and within three (3) business days after notification of receipt from the TSD facility. Any manifest discrepancies shall be reported immediately to NYSEG and the EIC and be resolved by the Contractor to the satisfaction of the EIC.

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METHOD OF MEASUREMENT:

Quantities for hazardous soil shall be measured in metric tons. The quantity shall be measured by the number of metric tons of soil disposed of in accordance with the methods and procedures described in the Material Handling Plan. The tonnage will be determined by truck scales capable of generating load tickets. If measurement of the contaminated soil by weight is not feasible, a conversion factor of 1.7 metric tons/cubic meter shall be assumed.

Quantities for samples shall be measured as the number of samples that are tested and have results submitted to the EIC.

BASIS OF PAYMENT:

The unit bid price shall include the cost of furnishing all labor, materials, handling, transportation, disposal, testing, documentation, permits, stockpiling, hauling, and any other incidentals necessary to complete the work.

Excavation and backfill will be paid for under their respective items.

Payment will be made under:

Item	Item Description	Pay Unit
05203.1301 M	Handling, Transportation, and Disposal of Hazardous Soil	Metric Tons
05203.1302 M	Hazardous Soil Sample Analyses	Each
05203.1303 M	Post Excavation Sample Analyses	Each