

**ITEM 05203.9501 M - MANAGEMENT OF CONTAMINATED NON-HAZARDOUS WASTE AND SUSPECTED HAZARDOUS WASTE**

**ITEM 05203.9502 M - TRANSPORTATION AND DISPOSAL OF CONTAMINATED NON-HAZARDOUS WASTE**

**DESCRIPTION**

Manage, transport, dispose and complete any other handling required for proper management and disposal of contaminated material (soil, sludge/slurry, rock and / or debris) as non-hazardous industrial waste at a permitted treatment/disposal facility and management of suspected hazardous waste. The soil contamination may include, but is not limited to: petroleum products, lead, chromium, benzene, and/or contaminants associated with past Manufactured Coal Gas Plant (MGP) operations. Petroleum product, if present, may include, but is not limited to: gasoline, heating oils, diesel fuel, kerosene, jet fuel, lubricating oils, motor oils, greases, and other fractions of crude oil. Contaminated soil covered by this item is as identified on the plans, as identified by the Engineer-in-Charge (EIC) and/or as determined by previous work included in the Contract. The Contractor shall submit analytical results from the in-situ sampling as waste characterization to the intended disposal facility. The results of the in-situ sampling were submitted by NYSDOT and have been approved by the New York State Department of Environmental Conservation (NYSDEC) Region 9 Solid Waste division. These results are contained in the Contract documents for use by the Contractor.

**MATERIALS**

6-Mil Polyethylene

**CONSTRUCTION DETAILS**

**I. Regulatory Compliance** - Conduct all tasks associated with these items in accordance with all Federal, State, County, and local regulations including, but are not limited to:

- a. 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response
- b. 29 CFR 1962.62 - Lead in Construction (if lead is present at levels of occupational exposure concern)
- c. 6 NYCRR 360 - Solid Waste Management Facilities
- d. 6 NYCRR 364 - Waste Transporter Permits
- e. TAGM 4046 - NYSDEC Division of Hazardous Waste Remediation Technical and Administrative Guidance Memorandum (TAGM) 4046 "Determination of Soil Cleanup Levels"
- f. NYSDEC (New York State Department of Environmental Conservation) STARS (Spill Technology and Remediation Series) Memo #1 for petroleum contamination constituents
- g. Any local restrictions on transportation of waste/debris
- h. Posted weight limitations on roads and bridges

**II. Advance Preparation**: 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 contaminated soil is expected. For work, that was not included in an original project contract, resulting from unexpected encountering of contamination 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.

**A. Material Handling Plan** - Conduct all activities in accordance with health and safety procedures and requirements developed by the Contractor following those outlined in the Interim Remedial Measures (IRM) and Health and Safety Plan prepared by New York State Electric and Gas (NYSEG) and approved by the NYSDEC and the New York State Department of Health (NYSDOH). The IRM and Health and Safety Plan are contained in the Contract documents.

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**B. Notifications** - At least 10 days prior to beginning work, the Contractor shall provide the EIC with anticipated scheduled dates and work locations for excavation of contaminated soil. Also at least 10 days prior to beginning the work, the Contractor shall contact the applicable regional NYSDEC Spill Office and local fire departments in writing to provide them with the scheduled dates for excavation, handling, and disposal of all contaminated materials. The Contractor shall provide a copy of this correspondence to the EIC.

**C. Disposal Plan** - At least 30 days prior to commencing work in the potentially contaminated areas, the Contractor shall prepare and submit a Disposal Plan (the Plan) to the Engineer-in-Charge (EIC) and

NYSDEC for review and acceptance. The Plan must be accepted by the EIC and NYSDEC prior to the commencement of work within the defined areas. The Plan shall include, at a minimum, but not be limited to, the following:

i. Disposal Facility Information including the method(s) of treatment/disposal that will be used and identification of and information on the proposed permitted 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; and a 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;

ii. 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/storage/disposal facilities.

**D. Health and Safety Considerations** - Conduct all activities in accordance with health and safety procedures and requirements developed by the Contractor following those outlined in the Interim Remedial Measures and Health and Safety Plan prepared by NYSEG. This will include personal air monitoring.

**III. Handling**

A. Contaminated soil must be placed into trucks or roll-offs as follows:

i. Cover with waterproof tarpaulins. Secure tarpaulins throughout the duration of the storage.

ii. Soil can not be moved off site unless it is transported in NYSDEC Part 364 permitted vehicles. Any materials that have visual evidence of purifying waste will be segregated into a separate roll-off(s) provided by NYSEG. NYSEG will complete testing and disposal as hazardous waste if required. If the material is determined to be contaminated non-hazardous material it will be handled and disposed under this Item.

iii. 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, a mat of orange construction fencing will be placed and secured as a visual marker of the limit of excavation.

B. Field identification and screening will be conducted by the NYSDOT hazardous waste consultant.

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C. Work Areas/Zones

The following work areas / zones are referenced in the IRM. The exact locations and boundaries shall be further identified by the Contractor in the Material Handling Plan.

- i. Exclusion Zone: The excavation area with actual or potential contamination.
- ii. Contamination Reduction Zone: The transition area between the Exclusion and Support Zones. This area is where decontamination activities will take place and personnel will enter and exit the Exclusion Zone. One 20m x 25m Stockpile Management Area will be constructed as per the construction requirements of the IRM.
- iii. Support Zone: Area with excavation activities. This area may be used for planning and staging/storing materials that are not contaminated.

D. Application of Bio Solve®

- i. Bio Solve® will be applied using a 300 gallon container (for mixing ) and a pressure washer. Application will be as needed to reduce vapor emissions or as directed by the EIC. Bio Solve® will be supplied by NYSEG and cost of purchase should not be included in this item.

**IV. Transportation Off Site**

A. Load into and transport contaminated wastes 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 Engineer.

B. Cover roll-offs and trucks with waterproof tarpaulins to prevent runoff or evaporation of contaminants and blowing of soil.

C. Perform all 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.

**V. Disposal**

Dispose of contaminated soil by the methods and procedures described in the Disposal Plan, as accepted by the EIC and NYSDEC. Transport and disposal of Hazardous Waste will be the responsibility of NYSEG.

**METHOD OF MEASUREMENT** The quantity for Item 05203.9501M shall be measured by the number of cubic meters of contaminated non-hazardous waste and suspected hazardous waste managed as computed in the field. The quantity for Item 05203.9502 M shall be measured by the number of metric

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tons of contaminated soil disposed of in accordance with the methods and procedures described in the Disposal Plan. If measurement of the contaminated soil by weight is not feasible, a conversion factor of 1.7 metric tons/cubic meter shall be assumed.

**BASIS OF PAYMENT** The unit price shall include the cost of furnishing all labor, materials, equipment, transportation, disposal, disposal (tipping) fees, health and safety related matters, permits, shipping papers, documentation, cleanup of spillage, application of Bio Solve® and any other incidentals necessary to complete the work. Any additional costs incurred by the Contractor for excavation work in industrial-contaminated soil shall be included in this item; excavation of all soils will be paid for under Section 203 of the Standard Specifications.

Payment will be made under:

ITEM NO.	ITEM DESCRIPTION	PAY UNIT
05203.9501 M	MANAGEMENT OF CONTAMINATED NON-HAZARDOUS WASTE AND SUSPECTED HAZARDOUS WASTE	Cubic Meter
05203.9502 M	TRANSPORTATION AND DISPOSAL OF CONTAMINATED NON-HAZARDOUS WASTE	Metric Ton

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