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| <b>ITEM 11210.0701 M - REMOVE AND DISPOSE OF HAZARDOUS PCB MATERIAL ASSOCIATED WITH BURIED GAS PIPING</b>       |
| <b>ITEM 11210.0702 M - REMOVE AND DISPOSE OF NON-HAZARDOUS PCB MATERIAL ASSOCIATED WITH BURIED GAS PIPING</b>   |
| <b>ITEM 11210.0703 M - REMOVE AND DISPOSE OF HAZARDOUS PCB MATERIAL ASSOCIATED WITH BURIED WATER PIPING</b>     |
| <b>ITEM 11210.0704 M - REMOVE AND DISPOSE OF NON-HAZARDOUS PCB MATERIAL ASSOCIATED WITH BURIED WATER PIPING</b> |

## **DESCRIPTION**

The work shall consist of submittal preparation, handling, sampling, transportation and lawful disposal of non-hazardous and/or hazardous polychlorinated biphenyl (PCB) containing materials (i.e., “pipe wrap”) associated with buried gas piping and buried water piping.

## **MATERIALS**

Furnish all materials necessary to complete the work in accordance with all local, State and Federal regulations. Furnish and employ all Personal Protective Equipment (PPE) necessary for safely handling asbestos and PCB materials. Clean, dry, weatherproof, watertight containers shall be used to store the PCB waste, used PPE, and used plastic sheeting prior to transport and disposal.

## **CONSTRUCTION DETAILS**

Protect the environment and the safety and health of workers and the general public, based on the potential hazards associated with PCB-containing materials (i.e. “pipe wrap”) at both non-hazardous and hazardous waste levels, and the presence of asbestos if detected.

**1.) Regulatory Compliance:** Perform all work in accordance with all applicable Federal, State, and local regulations, including, but not limited to;

- Comply with 6 NYCRR Part 364, and Parts 371 through Part 374, and all applicable state and federal regulations for the removal, handling, transport, and disposal of PCBs; and,
- Obtain from the EIC the EPA Identification Number for the transport and disposal of Hazardous Waste generated as part of the abatement of the asbestos/PCB pipe coating, if the material has been found to contain greater than 50 parts per million (ppm) of PCBs.

**2.) Preparation of Plans and Notification Letter:** Prepare the plans described below. Two (2) copies of each applicable plan shall be submitted to the EIC for acceptance at least 30 calendar days prior to commencing work that may potentially disturb the assumed PCB materials identified in the Contract Documents. The plans and notification letters shall be prepared based on the presence of PCB containing pipe coating material that may be present in association with the buried water and gas pipes as identified in the Contract Documents. If no coating is found on the pipes, or the coating is sampled and found to contain no PCBs, no specialized handling for PCBs will be required. This pipe coating, if present, must also be sampled and analyzed for the presence of asbestos as described in the Contract Documents.

**A. Contaminated Material Handling Plan (CMHP):** Prepare a CMHP to describe the procedures proposed to segregate and store PCB containing pipe and/or pipe coating in a manner to protect the environment and the safety and health of workers and the general public. The following information shall be included in the CMHP:

- Name and address of the plan preparer;
- Contract name, contract number and description;
- Describe procedures that shall be used to segregate PCB containing pipe/pipe coating during utility removal;

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- Location of intended trucks, roll-off container storage areas;
- Describe how these PCB containing materials will be moved to storage locations;
- Describe how storage locations will be prepared and managed;
- Describe how potential air quality impacts such creation of dust particulates and vapors will be minimized to protect air quality within, adjacent to and downwind of the project;
- Describe air monitoring procedures to be used during work, define action levels, and explain the response if action levels are exceeded; the protocol and procedures shall consider action levels for both work personnel and also perimeter/community action levels based on the nature of the activities conducted;
- Hazardous substance evaluation – Describe how the pipe wrap material will be tested for the presence and concentration of PCBs, including estimated number of samples for the pipes encountered;
- Describe the sample collection and handling procedures to be used; and,
- Personal protective clothing (PPC) and personal protective equipment (PPE) to be used or available on-site;.
- Names of key personnel, emergency contacts and phone numbers;
- List the OSHA training each worker has received. At least one worker must have Completed supervisor training per 29 CFR 1910.120(E)(4);
- General and site-specific safety rules, with emergency response procedures and directions to the nearest hospital (with map);
- Decontamination procedures for personnel and equipment; and,
- Disposal of contaminated PPC and PPE.

**B. Disposal Plan:** Prepare a Disposal Plan. The following information shall be included in the Disposal Plan:

- Name and address of the plan preparer;
- Name of disposal/treatment facility, address, telephone number and contact person;
- Copy of applicable permits and/or licenses held by the disposal/treatment facility;
- EPA Identification Number and/or State Facility Identification Number issued to the disposal/treatment facility;
- Method(s) of disposal/treatment that will be used;
- Signed letter from the disposal/treatment facility stating it is authorized under law to accept the type of PCB waste being generated, their intent to accept the waste generated by this contract, and a list of the laboratory tests required by the facility;
- Name of waste transporter, address, telephone number and contact person;
- EPA Identification Number and/or State Transporter Identification Number issued to the waste transporter; and,
- Copies of all waste transporter permits and/or license plate numbers for vehicles that will be used for transport of waste from the site to the intended disposal/treatment facility;

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The following information shall be included in the Disposal Plan for any sampling and laboratory analysis that will be conducted:

- Name, address, telephone number, and ELAP certification number of the proposed NYSDOH ELAP accredited laboratory.
- Name, address, experience and qualifications of each individual who will collect samples for waste characterization. Each individual shall be thoroughly trained in sampling protocols, handling and chain of custody procedures, and laboratory requirements.
- List of all laboratory tests required by the disposal/treatment facility;
- Sampling schedule or a description of the sampling frequency to be used to facilitate prompt disposal of stored PCB waste.

**C. Advance Notification Letters:** At least 10 calendar days prior to commencing work with the assumed PCB containing piping, the Contractor shall prepare and submit an Advance Notification Letter to the EIC. The letter shall include the dates that work will occur with the PCB materials, work locations, and proposed PCB waste storage locations.

**3.) Training and Disposal Requirements:** If the pipe coatings are determined to be an asbestos material, the NYSDOT Standard Specifications 2006 (Metric Edition) Section 210 shall apply. In addition, the following shall apply. The Contractor shall:

- Provide evidence, prior to construction, that all employees engaged in the work have received current training for Hazardous Waste Operations and Emergency Response (HAZWOPER) in accordance with the Occupational Safety and Health Administration (OSHA) Standard 1910.120.
- Dispose of designated asbestos and Non-Hazardous PCB containing materials in properly labeled containers and provide Waste Manifests / Bills of Lading documenting that the asbestos / PCB coated pipe sections were disposed of at a permitted waste disposal facility accepting this waste; and,
- Dispose of designated asbestos and Hazardous PCB containing materials in properly labeled containers and provide Waste Manifests documenting that the asbestos / hazardous PCB abated pipe coating, respirator cartridges, used PPE, and used plastic sheeting materials was disposed of at a permitted waste disposal facility accepting this waste.

**4. Testing:** The sampling work shall include all sample collection and laboratory analysis required to characterize each waste stream for disposal. The laboratory used for analysis shall be accredited for PCB analysis by the New York State Department of Health (NYSDOH) under the Environmental Laboratory Approval Program (ELAP).

**5. Storage:** Do not store PCB waste more than 40 calendar days, with this time limit beginning on the first day PCB waste is placed in a drum, truck-bed or roll-off container. PCB waste may be placed in trucks or roll-off containers/drums as follows:

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**A. Drums, Trucks or Roll-off Containers** The Contractor shall prepare and maintain trucks and roll-off / drum containers as follows:

- The interior of truck-beds and roll-off containers shall be lined with 0.25 millimeter (10-mil) or 2 layers of 0.15 millimeter (6-mil) polyethylene sheeting, or an equivalent material. All seams shall be overlapped and sealed to prevent the leaching of contaminants.
- At the end of each work day, trucks and roll-off containers storing waste shall be completely covered with waterproof tarpaulins. Tarpaulins shall be placed over the top of the truck bed or container (rather than over the PCB waste inside) and shall extend over the sides to prevent water accumulation.
- Tarpaulins shall be weighted or secured by appropriate means to prevent tearing or removal by weather conditions.
- Trucks and roll-off containers shall be labeled, signed, fenced or otherwise secured (as needed) at the end of each work day.
- Trucks, roll-off containers and tarpaulins shall be properly maintained for the duration of PCB waste storage.
- Damaged tarpaulins and protections shall be repaired or replaced by the Contractor within 24 hours after notification. If this work is not satisfactorily completed within 24 hours, no further waste storage shall be allowed until such work is completed.
- Trucks and roll-off containers storing PCB waste shall be located as described in the CMHP.

**6. Transportation and Disposal:** The Contractor shall have an accepted Disposal Plan prior to the transportation and disposal of PCB waste. The PCB waste shall not be transported until all sampling and analysis, as required by the Department and the proposed disposal facility, have been performed and laboratory reports have been provided and accepted by the EIC.

**A. Transportation Off Site**

- a. For the duration of transportation, roll-off containers and truck beds shall be completely covered with secured waterproof tarpaulins to prevent water infiltration, and spillage of PCB waste.
- b. The Contractor shall take immediate action to remedy any situation involving a release of PCB waste during loading or while in transit.
- c. PCB waste shall not be combined with material from any other source.
- d. PCB waste shall be transported in vehicles with valid Waste Transporter permits for New York State (and other required permits/licenses from any other states as applicable). The Contractor shall provide a copy to the EIC of the waste transporter permit documenting that the transporter is authorized to transport waste to the intended disposal/treatment facility. The Contractor shall complete any required shipping papers, labeling, placarding, and weighing/load measurements and shall provide copies of required documentation to the EIC.
- e. PCB waste that is determined to be a regulated hazardous waste per the criteria of 6 NYCRR Part 371 shall be shipped with a hazardous waste manifest to a

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treatment/disposal facility permitted to accept the waste. The Contractor shall complete all required manifests, labeling, placarding, land disposal restriction notifications, and other requirements for shipping and tracking hazardous wastes and shall provide copies of required documentation to the EIC. The EIC will provide the Contractor with the EPA Identification Number(s) issued to the Department as the hazardous waste generator and will sign the generator certification statements.

**B. Disposal:** PCB waste shall be disposed of by the methods and procedures described in the accepted Disposal Plan. PCB waste characterization information, field identification and confirmation laboratory analyses will be used by the EIC to determine appropriate classification and category of PCB waste for disposal. Both hazardous and nonhazardous Any PCB wastes shall be handled and disposed of based upon its characterization in accordance with all local, State, and Federal regulations. The EIC shall determine the appropriate NYSDOT Item number for payment based on the results of the waste characterization sampling.

**C. Documentation** The Contractor shall provide the EIC with copies of all Bills of Lading and/or Waste Manifests from the disposal facilities which indicate the actual quantity of waste received within 2 work days of receipt from the facility. Any discrepancies, including the need for exception reporting, shall be reported immediately to the EIC and shall be resolved by the Contractor.

**METHOD OF MEASUREMENT**

This work shall be measured on a lump sum basis. The EIC shall determine the applicable item number once the material has been sampled and analyzed by the laboratory.

**BASIS OF PAYMENT**

The lump sum price bid shall include the cost of submittal preparation, handling, sampling, laboratory analysis, transportation and lawful disposal necessary to complete the work.

Payment will be made under:

| <u>ITEM NO.</u> | <u>ITEM DESCRIPTION</u>  | <u>PAY UNIT</u> |
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| 210.0701--11M   | REMOVE AND DISPOSE OF HAZARDOUS POLYCHLORINATED BIPHENYL CONTAINING MATERIAL ASSOCIATED WITH BURIED GAS PIPING     | LUMP SUM        |
| 210. 0702--11M  | REMOVE AND DISPOSE OF NON-HAZARDOUS POLYCHLORINATED BIPHENYL CONTAINING MATERIAL ASSOCIATED WITH BURIED GAS PIPING | LUMP SUM        |

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