

*Underground Storage Tank Petroleum Product  
Cleanup Fund*

*Massachusetts General Laws Chapter 21J*

*503 Code of Massachusetts Regulations 2.00*

*Appendix 3-Reimbursement Fee Schedule and Guidelines*

*Effective Date: March 1, 2023*

**503 CODE OF MASSACHUSETTS REGULATIONS 2.00**  
**APPENDIX 3**  
**UNDERGROUND STORAGE TANK PETROLEUM PRODUCT CLEANUP FUND**  
**REIMBURSEMENT FEE SCHEDULE POLICY**  
**MASSACHUSETTS GENERAL LAWS CHAPTER 21J**  
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**Massachusetts 21J Reimbursement Fee Schedule**

## **1.0 PURPOSE AND SCOPE**

The regulations in 503 CMR 2.00 govern the administration of reimbursement of the Underground Storage Tank Petroleum Cleanup Fund Administrative Review Board created by Chapter 524 of the Massachusetts Acts of 1990, which constitutes Chapter 21J of the Massachusetts General Laws (M.G.L. C. 21J).

The purpose of Appendix 3 to the regulations is to:

- a) Establish maximum, not to exceed reimbursement fees to eligible claimants for allowable costs, expenses and obligations incurred by taking response actions, meeting claims of third parties, or otherwise incurring expenses, as a result of releases of petroleum products from UST systems;
- b) Define the specific response actions for which reimbursements will be allowed; and
- c) Provide an Application for Reimbursement Form to allow eligible claimants to be reimbursed for allowable costs, expenses, and obligations.

All response actions for which reimbursement will be requested, where conducted as a result of releases of petroleum products from UST systems, must be conducted in accordance with applicable Federal, State, and local statutes and regulations, nationally recognized codes and standard industry practices, e.g., ASTM, ASCE, API, AEG, AIPG, etc.

Time and Materials (T & M) are to be reimbursed at the rates provided in the Reimbursement Fee Schedule.

The Reimbursement Fee Schedule (the Fee Schedule) is designed to provide a list of Tasks which may be selected in order to comply with the provisions of the Massachusetts Contingency Plan (MCP) found at 310 CMR 40.0000, and other applicable Massachusetts Department of Protection (MassDEP) regulations and policies. The implementation of the Tasks must also comply with other applicable Federal, State or Local statutes and regulations and recognized national codes. The Tasks are undertaken as a result of releases of petroleum products from underground storage tank (UST) systems. Therefore, complementary Tasks will need to be selected for implementation when conducting MCP related response, assessment, remedial, response action outcome, etc. activities.

## **2.0 APPLICATION FOR REIMBURSEMENT**

All Claimants seeking reimbursement shall fully complete and submit the Application for Reimbursement (Appendix 4) electronically via eUST. The Claimant must provide documentation for all tasks to be reimbursed with each Application for Reimbursement (i.e., “claim”). Documentation that must be included, but is not limited to, is described below in Sections 2.1 and 2.2.

To obtain reimbursement for Response Action Costs and Third-Party Claims, or both, a Person must demonstrate to the Board or DOR that under M.G.L. c. 21J, 503 CMR 2.00 and Appendix 3: a Certificate of Compliance is in force for the Site, the Release is an Eligible Release; the Person is an Eligible Claimant; and, that the costs, expenses and obligations incurred are eligible for Reimbursement.

## 2.1 RESPONSE ACTION CLAIMS

A Response Action Claim is a request for Reimbursement for a specific Facility filed pursuant to 503 CMR 2.10, as noted in Appendix 4. Documentation to be included to support reimbursement is as follows:

- A. Owner Authorization: An Owner Authorization (OA) grants a party not listed as the tank Owner permission to file a claim for reimbursement. OA is required when the claimant does not currently own the UST system on-site. The owner is defined as “any person having legal ownership of the UST system” per 503 CMR 2.02. Per 503 CMR 2.08(3), for any claimant that is not the Owner of the UST system, written authorization must be obtained from the Owner, from a court of competent jurisdiction, or from the Board to file claims with the Board. Owner Authorization can be submitted via eUST. The only parties eligible for reimbursement are the Tank Owner or an Owner Authorized Claimant. OA form is available here: <https://www.mass.gov/doc/owner-authorization-claims-form/download>
- B. Proof of Payment: Acceptable forms of Proof of Payment include copies of canceled checks (front and back), bank records of payment (e.g., wire transfer, bank statement, etc.), Contractor/Payee Certification on Contractor’s/Payee’s letterhead, a credit card receipt, or other documentation acceptable to the Board. Other Proof of Payment requirements to consider:
  - 1. Claimant should be the organization/company incurring the costs. If the Claimant differs from the invoiced organization or the organization incurring the costs, it is likely that the claim will require additional documentation (e.g., Verification of Costs form, EFT payment records, cancelled checks, DBA Certificate, etc.). If the Claimant is not the organization/company incurring the costs being submitted for reimbursement, contact the UST Program to discuss the required documentation prior to submitting the claim.
  - 2. Bank payment records must identify the payee and the payor.
  - 3. Verification of Payment (VOP) is a payment affidavit on company or contractor payee letterhead, with invoice number, invoice date, date paid, and signed “*under the pains and penalties of perjury.*”
  - 4. All personal/confidential/sensitive information (e.g., bank account numbers, FEINs, SSNs, etc.) must be redacted prior to uploading to eUST. This includes front and reverse side of cancelled checks. For additional guidance, refer to the IRS Internal Revenue Manual - 10.5.1 ([https://www.irs.gov/irm/part10/irm\\_10-005-001](https://www.irs.gov/irm/part10/irm_10-005-001))
  - 5. For utility bills only: a copy of the utility bill showing a credit for the previous month(s) service(s) will be accepted in lieu of other acceptable forms of proof of payment. The utility bill must indicate the actual date that the payment was credited.
  - 6. Proof of Payment (as noted above) must be provided for invoices if markup is claimed.
- C. Direct Pay Claims: A Direct Pay Certification Form (all pages required) is needed only for sites that have costs directly submitted for reimbursement by the company incurring the costs (i.e., the consultant). To review the Direct Pay Policy, please visit: <https://www.mass.gov/lists/ust-claims-updates-reports-regulations-and-policies>

D. Consultant / Subcontractor Invoices: (including Timesheets and Expense Reports/ Field Notes/Field Sheets)

1. All invoices must be task-coded identifying charges claimed, must include staff names with applicable 21J labor equivalent categories, and should have a description of work performed in lieu of invoice line items containing this information. Timesheets can also be provided but must be clearly marked with the same information.
2. All relevant backup for invoiced charges must be provided, as applicable to your claim submission. All charges claimed must be accompanied by a documented date of service (DOS).
3. Labor descriptions on the invoice should reflect actual work performed. Charges reallocated by handwritten notes or other annotations without supporting documentation that do not match the invoice description will be denied.
4. Lump sum invoices are not allowed except when accompanied by a detailed breakdown of labor, equipment, and material(s) costs.
5. Handwritten notes or annotations on invoices for charges to be split up between different task codes must be clearly identified and noted for the event/report they are attributed to. If an individual line item on an invoice is to be divided between different events or task codes, documentation supporting the allocation must be provided.
6. Field notes and/or daily field sheets are required for all field work. Field notes are required to indicate equipment used, activities performed, and staff onsite during the field event. Communication with other staff not in the field should be documented. Field notes and other supporting documentation must be legible.

E. Equipment/Material Vendor Invoices:

1. All field equipment charges must be supported by either a rental invoice/lease agreement, a rate sheet, or an equipment use form that identifies the cost for each piece of equipment with the corresponding DOS.
2. Handwritten notes or annotations on invoices for charges to be divided between different task codes must clearly identify the event/report they are allocated to. If an individual line item on an invoice is to be divided between different events or task codes, documentation supporting the allocation must be provided.

F. Correspondence Documentation: Copies of all correspondence to/from MassDEP (including reports) must either be accessible on eDEP or must accompany the invoice as supporting documentation. If viewable on eDEP, provide the Release Tracking Number (RTN) and the eDEP Transaction ID number. If the Disposal Site has more than one RTN, specify which RTN the costs are associated with.

## 2.2 THIRD-PARTY CLAIMS

A Third-Party Claim is any Claim filed by an Owner or Operator of a UST System for monetary damages based on a Final Judgment against such Owner or Operator, establishing that another person has sustained Bodily Injury, Property Damage, or Damage to Natural Resources proximately caused by the Release.

A Third-Party Claim requires the submittal of a Final Judgment. Per 503 CMR 2.02, a Final Judgment is the entry of an order or other action by a court of competent jurisdiction, including, without limitation, litigation ended by a court-approved settlement by the parties, with all rights of appeal being exhausted or waived or expired, except as arising under Rule 60 of the Massachusetts Rules of Civil Procedure or other similar provisions of Federal laws or the laws of any other state.

Third-Party Claims differ from Response Action Claims and are subject to the following requirements:

1. Copy of Final Judgment must be provided to the Board and Application for reimbursement filed within 180 days of the legal entry of the Final Judgment.
2. Final Judgment must be against an eligible Claimant arising from an eligible release.
3. Charges are subject to Appendix 3 Fee Schedule.
4. Charges not covered by Appendix 3 Fee Schedule shall be determined by the Board.
5. Certain costs are not eligible for reimbursement such as loss of wages or business income, medical expenses, punitive or civil damages, attorneys' fees, etc. Refer to 503 CMR 2.12 and 503 CMR 2.13 for additional eligibility requirements and the complete list of costs that are not eligible.
6. Only one claim per Final Judgment may be filed unless the Final Judgment prescribes payments over time.

Refer to 503 CMR 2.11 for more information regarding costs allowable for reimbursement and 503 CMR 2.12 for more information regarding Third-Party reimbursement application and documentation requirements.

Contact:

MA Department of Revenue - UST Program

Phone: (617) 626-2600

Website: <https://www.mass.gov/ust>

Email: [dorust@dor.state.ma.us](mailto:dorust@dor.state.ma.us)

### **3.0 STANDARD MATERIALS LIST**

Supplies may be considered usual and customary when used during activities performed that are not directly incorporated into any work of a temporary or permanent nature. It is understood that several items have multiple end uses and, therefore, in specific situations, the supplies may be classified as materials of construction or consumable supplies, depending on the actual use. Under these circumstances the charges associated with the supplies shall not be eligible.

The following list is considered to be representative of usual and customary supplies:

Abrasives	Dies	Lantern Bulbs	Rollers
Airfare	Dippers	Lashing	Rubber boots
Badges	Disinfectants	Levels	Safety goggles
Bags	Drills (<3hp)	Line/chalk	Salt tablets & dispenser
Bags-water	Electrode holders	Masks, dust	Sandpaper
Bands-elastic	Extractor screws	Mandrels	Saws (<3hp)
Barrels-trash	Extension cords	Medical supplies	Shields, face/side
Batteries	Fasteners	Mirrors	Soap
Belting	Faucets	Mops	Soapstone
Brads/nail	Files	Needles/acetylene	Spray bottles
Brooms	Filters	Nuts	Stencils
Brushes	Filters-respirator	Office supplies	Supplies-washroom
Buckets	Fire Extinguishers	Oils-cutting	Tacks
Bulbs	Flashlights	Packing	Tags
Cables	Flux-braising	Pails	Taps, bolt
Camera	Funnels	Paper	Taxi fare
Cans	Glove liners-wool	Parking	Thimbles, wire/rope
Chain	Gloves-cotton-work	Paste	Tips-cutting welding
Chalk	Glue	Patterns	Towels
Chamois	Goggles	Pencils	Twine
Chisels	Graphite	Postage	Wash powder
Clamps	Grinding wheels	Pulleys	Water cooler
Clips	Hacksaws	Punches	Wedges
Cloth	Handles	Rags	Wheel cutting
Connectors	Helmets	Rain gear	Wire
Cotter Pins	Hoods	Rakes	
Crayons	Keys	Wastes-wipes	
Cups	Lanterns	Rope	

#### 4.0 MASSACHUSETTS REIMBURSEMENT FEE SCHEDULE TASK CODE GUIDANCE

The following information is provided to clarify eligible tasks and associated backup requirements as defined in the Reimbursement Fee Schedule and should be carefully reviewed to properly apply to the allowable rates and fees. Where available, references have been made to the MassDEP regulations, standard methods or published MassDEP policies. Future policies will be incorporated into this text as they become available. The Board shall reimburse costs or activities completed in accordance with these references or accepted industry or engineering practices.

As of the effective date of this revision, three competitive bids may be obtained for work and/or materials covered by Task Codes 4.4, 6.1.3, 6.7, 6.11.1, 7.1, 9, 10, 12, 13, 14, 17.1.1.8, 18, 20, 22, 23, 24, 25, 27, and 28 in place of the unit price(s). In addition, Task Codes 6.4, 6.5 may require three quotes (see task codes for additional guidance), while Task Code 22.4, requires a minimum of three bid responses be submitted in order to claim reimbursement.

Note: Biddable items are subject to the labor and equipment rates established under Task Code 1 and Task Code 28, respectively.

**MARKUPS:** Eligible costs on subcontractor or material invoices must be supported with time



and materials backup (date of service, 21J equivalent labor category, labor hours and labor rates, itemized equipment and materials breakdown). Reimbursement rates specified as “At Cost” or “Actual Cost” will be reimbursed at the direct cost to the Claimant as supported by invoices and proof of payment. Claimants are not eligible to apply mark-ups for reimbursement. However, markup of vendor and lower-tier subcontractor invoices by the Claimant’s prime contractor/consultant will be reimbursed at 8 percent, only if the prime contractor/consultant provides proof of payment for the lower-tier vendor/subcontractor costs being claimed. The prime consultant/contractor must have paid the lower-tier vendor/subcontract prior to the submission of the Reimbursement Application (i.e., the proof of payment must pre-date the claim Reimbursement Application eUST submit date). Equipment and materials invoiced based on the consultant/contractor’s published rate sheet (e.g., materials pulled from a general inventory) are assumed to already include mark-ups and will be reimbursed at the published rates subject to the task maximums. Claimed costs for markup will be included with and applied with other applicable task code costs for the purposes of determining task maximums. A lower-tier vendor or subcontractor shall not be an affiliate of the prime consultant/contractor. For the purposes of 503 CMR 2.00, an affiliate is an individual or entity that is related to the prime consultant/contractor within the scope of Internal Revenue Code § 267(b) or §707(b)(1).

#### **4.1 TASK CODE 1 – LABOR CATEGORIES (TASK CODES 1.1 THROUGH 1.17)**

The labor rates presented in Task Codes 1.1 through 1.17 represent the maximum reimbursable hourly rates for each labor category based on education, experience, and certifications (see below for detailed descriptions of labor categories and qualifications). Experience is defined as experience directly related to the services being performed. For example, a person who worked for an environmental consulting firm for 3 years in an office/clerical position and 1 year as a Field Technician conducting sampling or related field work, would only be considered to have 1 year of related experience.

The labor rates serve as guidelines for determining reasonableness and cost-effectiveness of labor rates being charged as part of Task Codes 2 through 26 of the Fee Schedule, as well as labor rates charged by subcontractors under the Task Codes that are bid. Labor categories claimed for specific tasks in the Fee Schedule should reasonably reflect the technical and experiential requirements for the task at hand. For example, the majority of field tasks such as groundwater sampling are typically conducted by technicians and scientists. The more senior labor categories task codes are typically involved with coordination, data review, and reporting of such field work. Work performed by an LSP or PE involved with conducting a field activity may be reimbursed within the Task maximum applicable to Task Codes 2 through 26 of the Fee Schedule, provided there is no duplication of services provided. The Claimant must provide adequate documentation to support reimbursable charges, including time sheets, field records, etc. for all activities, in addition to the normal reimbursement claim documentation (proof of payment, Notice of Responsibility, etc.).

The labor rates presented in Task Codes 1.1 through 1.17 also apply to tasks that are not specifically defined in the Fee Schedule. For example, Task Codes 1.1 through 1.17 may be appropriately claimed immediately after a Two-Hour Release Condition notification (i.e., emergency response activities) as defined at 310 CMR 40.0311. Claimants are advised to provide

documentation and justification that demonstrates, to the satisfaction of the Board, that activities performed were “emergency” in nature and could not be performed under the existing task codes.

Costs directly related to the response action(s) incurred by a qualified employee of the Owner or Operator will be reimbursed at not more than the hourly rates listed in Task 1 for the labor category applicable to the level of effort provided by the employee. The hourly rate to be reimbursed for the employee of the Owner or Operator shall be calculated as the product of 1.33 times the employee’s hourly rate. Detailed time sheets verifying the work completed and employee pay records must accompany all claims for reimbursement for an employee of the Owner or Operator.

Unless otherwise noted, the term “degree” refers to an Associates, Bachelors, Masters, or Doctorate degree in a related field from an accredited college or university.

### **Task Code 1.1 - Principal**

- Owner, partner, associate, and/or corporate officer of the organization
- Corporate responsibility.
- Ensure all organizational personnel comply with applicable federal, state or local statutes, regulations or policies.

### **Task Code 1.2 - Licensed Site Professional/Other Registered Professional**

- Directs professional staff.
- Performs final review of project documents.
- Provides expert testimony.
- Evaluates and approves new technological innovations.
- Certifies MassDEP documents and renders professional opinion.

### **Normal Qualifications and Experience:**

- Degree in engineering, geology, hydrogeology or related science and 8 years of related experience in investigation and remediation of contamination in soil and ground water.
- Professional registration by the Massachusetts Board of Registration of Hazardous Waste Cleanup Professionals. Professional registration when applicable (e.g., P.E., C.P.G., C.I.H., etc.).

### **Task Code 1.3 - Project Manager**

- Responsible for making budgetary, project management and supervisory decisions.
- Plans, conducts and supervises project assignments or discrete tasks within larger projects.
- Estimates and schedules work to meet completion dates.
- Develops scope of work and project or task-level budget; writes and reviews reports.
- Responsible for project management and execution of project assignments, subcontractor agreements, project quality assurance, adherence to contract terms, staff assignment and team composition, cost, schedule and project deliverables.
- Typically there is only one project manager for each scope of work

**Normal Qualifications and Experience:**

Minimum B.A./B.S. degree with 5 years of related experience

**Technical Experience:** Technical experience in waste site investigations, cleanup activities or other discipline directly related to the requirements of this contract. Minimum of 4 years experience managing environmental projects and personnel.

**Typical Labor Classification under Federal Labor Standards Act (FLSA):** Exempt employee.

**Examples for Eligible Project Management Charges (technical related):**

- Office coordination/scheduling of field event (i.e., sampling; drilling; soil excavation; system O&M; system repairs; system installation; DEP audits; EFR activities, etc.) Project management time would be claimed towards the corresponding field task code.
- Telephone communication with field personnel during field event (claimed towards corresponding field task code. Documentation of communication in field notes or complete description on invoice required).
- Quality Control/Quality Assurance review of field notes/documentation from an eligible field event (charges claimed against corresponding field event task code up to a maximum of 1 hour per field event up to the task maximum for the field event, and should occur within 30 days of completion of the field event).
- Technical review of required MCP reports (charges claimed against corresponding MCP report Task Code 2.1 through 2.22).

**Examples for Ineligible Project Management Charges (project administration related):**

- Office related activities associated with billing; invoicing; preparation/copying of supporting documentation for 21J reimbursement claim or responding to RFI/preliminary adjustments;
- Communication with Client; preparation of internal reports; preparation of proposals for additional work with Client; and
- Reviewing prior environmental reports and/or meeting/corresponding with prior environmental consultants in order to get “up to speed” when assuming activities as a “new” environmental consultant /LSP-of-Record;

**Task Code 1.4 - Senior Scientist/Engineer/Geologist**

- Responsible for making scientific and supervisory decisions; provide scientific or engineering specialties.
- Plans, conducts and supervises project assignments or discrete tasks within larger projects.
- Estimates and schedules work to meet completion dates.
- Writes and reviews reports.
- Responsible for execution of project assignments, subcontractor agreements, project quality assurance, adherence to contract terms, staff assignment and team composition, cost, schedule and project deliverables.

**Normal Qualifications and Experience:**

Minimum B.A./B.S. degree with 5 years of related experience

**Technical Experience:** Technical experience in waste site investigations, cleanup activities or other discipline directly related to the requirements of this contract.

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Exempt employee.

**Task Code 1.5 - Staff Scientist/Engineer/Geologist/Hydrogeologist II**

- Implements projects under direction of senior staff; analyzing and interpreting data; identifying need for modifications to work plans based on available data; supervising other technical personnel during on-site assessment or remediation activities.
- Under the supervision of more senior personnel, carries out assignments associated with project.
- Applies training within professional discipline to assigned projects and translates technical guidance and training received into usable products and reports.
- Collects and evaluates data, conducts field work, and prepares, or provides input for, reports.
- Provides resident site engineering and construction inspection activities at the site of remediation actions.

**Normal Qualifications and Experience:**

M.S. degree or equivalent with 1 year experience in discipline

B.A./B.S. degree with 2 years experience in discipline

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Exempt employee.

**Task Code 1.6 - Scientist/Engineer/Geologist/Hydrogeologist I**

- Supports staff, senior staff scientists and engineers, and project managers in data and information collection and field assessment and remediation activities; performs work under the close supervision of more senior staff.
- Entry Level for professional classifications; works under supervision of more senior personnel.
- Gathers and correlates basic data and performs routine tasks and other duties as assigned.
- Makes recommendations on work assignments and variables that effects field operations.
- Assists field operations as directed, including manual tasks such as equipment setup and maintenance.

**Normal Qualifications and Experience:**

B.A./B.S. degree with 0 to 2 years of related experience

Associate's degree with 2 years of related experience

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Exempt employee.

**Task Code 1.7 - Permits/Health & Safety Coordinator**

- Permit preparation and coordination. Waste and laboratory coordination.
- Prepares site specific Health and Safety Plan.
- Oversees Health and Safety Plan activities on-site when necessary.

**Normal Qualifications and Experience:**

2 years related experience

B.A./B.S. degree in related discipline may be substituted for experience requirement

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Exempt employee, may qualify as non-exempt.

**Task Code 1.8 - Construction Foreman**

- Responsible for supervision and overall direction of moderate size routine field service operations.
- Has successfully been involved with at least 5 system installations as on-site supervisor and has assisted in cost estimates for time and materials.
- Develops staff assignments.
- Executes work requests.
- Schedules projects.
- Ensures compliance of field service operations within company procedures and safety standards.

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee but may qualify as exempt.

**Task Code 1.9 - Senior Technician/Technician III**

- Performs non-routine and complex tasks in addition to routine assignments.
- Assists in the planning of field work and works at the direction of the team or project leader.
- Gathers and correlates basic data and performs routine analyses.
- May also perform experiments or tests that may require nonstandard procedures and complex instrumentation.
- May construct components, subassemblies, or prototype models.
- May troubleshoot malfunctioning equipment and make simple repairs as authorized by team or project leader.
- May supervise lower-level staff

**Normal Qualifications and Experience:**

4 years of related experience

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee.

**Task Code 1.10 - Technician II**

- Performs non-routine and complex tasks in addition to routine assignments.
- Assists in the planning of field work and works at the direction of the team or project leader.
- Gathers and correlates basic data and performs routine analyses.
- May also perform experiments or tests that may require nonstandard procedures and complex instrumentation.
- May construct components, subassemblies, or prototype models.
- May troubleshoot malfunctioning equipment and make simple repairs as authorized by team or project leader.
- May supervise lower-level staff.

**Normal Qualifications and Experience:**

2 years of related experience

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee.

**Task Code 1.11 - Technician I**

- Performs simple, routine tasks under supervision.
- Performs routine maintenance and may install, setup or operate field equipment of moderate complexity.
- Provides a wide variety of support functions during field operations.

**Normal Qualifications and Experience:**

0 to 2 years of related experience

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee.

**Task Code 1.12 – Draftsperson/CADD**

- Generates new drawings.
- Works from provided plans and maps.
- Coordinates scales.
- Interfaces with all levels of technical and professional staff.
- Interpolates groundwater contour maps.

**Normal Qualifications and Experience:**

2 years of related experience with Computer Assisted Design operations.

Requires a Technical Drawing Certificate or AutoCAD related cartography studies, B.A./B.S. degree in GIS, Cartography or related discipline may be substituted for the experience requirement

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee but may qualify as exempt.

**Task Code 1.14 - Administrative Support**

- Operates computer for word processing, spreadsheets, and statistical typing, correspondence, report generation, creation of boring logs, hydrographs, etc.
- Word processing.
- Spreadsheets.
- Report generation.

**Normal Qualifications and Experience:**

None

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee.

**Task Code 1.15 – Heavy Equipment Operator**

- Licensed in the Commonwealth of Massachusetts to operate specific heavy equipment (e.g., backhoe, excavator, loader, boom truck, etc.).

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee.

**Task Code 1.16 – Truck Driver**

- Licensed to operate multi-axle dump truck and/or tractor for equipment mobilization/demobilization.

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee.

**Task Code 1.17 - Laborer**

- General laborer to support heavy equipment operation only.

**Typical Labor Classification Under Federal Labor Standards Act (FLSA):** Non-exempt employee.

**4.2 TASK CODE 2 - REPORTS (TASK CODES 2.1 THROUGH 2.22)**

These task codes are for report research and writing, data tabulation, plan preparation, file review fees, and public involvement and are not for labor, materials, or expenses associated with the performance of field activities (e.g., drilling, sampling, operation and maintenance, laboratory analyses, etc.).

Reports included in this section include MCP required reports such as the Phase Reports (one through five and their associated status reports), Remedy Operation Reports, Immediate Response

Action (IRA) and Release Abatement Measure (RAM) Reports (and their associated status and completion reports), Method 1 through 3 Risk Assessments, Permanent and Temporary Solution Statement Reports, Activity and Use Limitations (AULs) and permit extensions and modifications or other reports required by the MCP and/or MassDEP. Charges that should be associated with these reports include data evaluation including usability [i.e., Representativeness Evaluations and Data Usability Assessments (REDUA)], research and preparation of the actual report inclusive of all tables, figures, and plans. Copies of the completed reports should be available in its entirety on the MassDEP's file viewer website. The reports should include:

- Text, tables, graphs, lab analysis, and any additional attachments to the report.
- Electronic receipt verification from the MassDEP.
- If reports are not completed at the time of request, the consultant should indicate the expected completion date.
- DOR may request draft documents at any time to support the level of effort invoiced.

#### **Task Code 2.1.1 - File Review Fees**

Fee charges incurred during a file, record, or plan review are reimbursed under this task code. A copy of the receipt from the state agency or local municipality shall be provided as backup to support the charges. Labor to perform the file, record, or plan review is not eligible under this task code and shall be claimed under the task code of the applicable report.

#### **Task Code 2.2 - Phase II Scope of Work per 310 CMR 40.0834**

This task code is to be used for costs associated with the preparation of a Phase II Scope of Work (SOW), either conceptual or final as submitted to MassDEP. This task code is limited to one per Occurrence regardless if more than one type of SOW is submitted.

#### **Task Code 2.3 - Phase II Report**

Risk Characterizations performed in conjunction with the Phase II Report are not reimbursed under this task code. Risk Characterization charges will be reimbursed under Task Codes 2.7.1, 2.7.2, and 2.7.3.

#### **Task Codes 2.3.1, 2.4.1, 2.5.4 - Phase II, III, IV Addendums**

These task codes are not limited to a report titled Addendum and may be used when:

- A second RTN is issued to a facility where a previous release has been determined to be eligible and response actions for that release have been completed through Phase II, III or IV of the MCP but are continuing.

A site where a permanent RAO or Solution has been submitted to MassDEP which is reopened due to change in MCP cleanup standards.

These task codes are not to be used to correct deficiencies in a previously submitted Phase II, III or IV report.

#### **Task Code 2.5.1 - Phase IV Status Reports**

Per the MCP, it is required that this status Report be submitted every six months. Therefore, only two status reports per year shall be reimbursed, unless required on a more frequent basis by



MassDEP or the MCP (e.g., Imminent Hazard). The claimant shall attach a copy of the MassDEP letter requiring the more frequent status reports, as backup for the additional incurred costs, to the submittal with the Application for Reimbursement.

**Task Codes 2.6.1, 2.6.1.1, and 2.6.3 - Phase V, ROS, ROS Opinion, and Temporary Solution Status Reports**

Per the MCP, it is required that these status Reports be submitted at a minimum of every six months. Therefore, only two status reports per year shall be reimbursed, unless required on a more frequent basis by MassDEP. The claimant shall attach a copy of the MassDEP letter requiring the more frequent status reports, as backup for the additional incurred costs, to the submittal with the Application for Reimbursement.

An active remedial system is where a remediation system is operating on a regular basis during the reporting period. For remediation involving injections or extractions, if an injection/extraction event occurs during the reporting period, it is considered to be an active remediation system. A system operated solely to perform O&M is not considered to be an active system.

**Task Codes 2.7.1, 2.7.2 and 2.7.3 - Risk Characterization**

Risk Characterizations shall be submitted solely in conjunction with either a Phase II Report or a Permanent and Temporary Solution Statement and will be reimbursed as Task Codes 2.7.1, 2.7.2, or 2.7.3. Method 3 Risk Characterizations performed in response to indoor air sampling (in accordance with MassDEP's EPH/VPD Guidance Document) will be reimbursed as Task Code 2.14, Imminent Hazard Evaluation, per sampling event.

**Task Code 2.7.4 - Feasibility of Permanent Solutions**

Feasibility of Permanent Solutions (310 CMR 40.0860) and Feasibility of Restoration of Background (310 CMR 40.1020) performed in conjunction with a Phase III Report or a Permanent Solution Statement will be reimbursed under Task Code 2.7.4.

**Task Code 2.7.5 – Micro-scale/Macro scale NAPL Evaluation**

Up to two micro/macro scale NAPL evaluations (310 CMR 40.1003(7)) are reimbursable per eligible release.

**Task Code 2.8 - Permanent and Temporary Solution Statements**

Up to two Permanent Solution Permanent Statements (310 CMR 40.1000) may be reimbursed provided that the second Permanent Solution Statement is an upgrade in Classification (e.g., from a Permanent Solution with Conditions to a Permanent Solution without Conditions).

**Task Code 2.10 – Tier I Permit Classification**

These task codes shall be utilized solely for sites ranked as Tier I under the MCP and not where there have been changes to the Tier II Permit under the MCP.

**Task Code 2.11 and 2.11.1 – Tier I & Tier II Permit Modification and Tier II Permit Extension**

These task codes shall be utilized for sites ranked as either Tier I or Tier II disposal sites under the MCP. Task Code 2.11 shall be used for Permit Modifications for either Tier I or Tier II sites.

Task Code 2.11.1 will be used for preparing Permit Extensions for Tier II sites only. Use Task Code 2.10.1 for permit extensions for Tier I sites.

### **Task Codes 2.12.2 and 2.13.2 - RAM and IRA Status Reports**

Per the MCP, it is required that RAM and IRA Status Reports be submitted within 120 days of their respective plans and at six-month intervals thereafter until a completion statement is filed. Therefore, only two status reports per year shall be reimbursed, unless required on a more frequent basis by MassDEP. The claimant shall attach a copy of the MassDEP letter requiring the more frequent status reports, as backup for the additional incurred costs, to the submittal with the Application for Reimbursement.

### **Task Code 2.14 - Imminent Hazard Evaluation per 310 CMR 40.0426**

Costs to prepare an Imminent Hazard Evaluation (IHE) will be allowed upon submittal of the IHE with a MassDEP report submission or after completion of an indoor air sampling event risk evaluation using the Method 3 Short Forms.

### **Task Code 2.14.1 Substantial Hazard Evaluation per 310 CMR 40.0956**

Costs to prepare a Substantial Hazard evaluation (SHE) will be allowed upon submittal of a Temporary Solution, ROS, and 5-year LSP Review report.

### **Task Code 2.16 - Activity and Use Limitations**

This task code does not include a survey conducted by a professional land surveyor. Surveying activity performed in response to Activity and Use Limitations (310 CMR 40.1000) will be reimbursed as Task Codes 9.7 and/or 9.8.

### **Task Code 2.19 - Public Involvement**

Documentation to support public involvement activity is required. All documentation to notify public officials and others of the availability of the report shall be claimed under the report task code, unless the letters are required as part of a PIP.

One of the following items is required:

- A copy of the document (e.g., letter) used to provide notification or information;
- A copy of the legal notice with receipt (including RTN #, Job #, etc.). If the copy of the legal notice and receipt is included in a report, it should be specified in the Appendix 4 separately with the report and page number indicated;
- Employee timesheets describing work performed to support duties not associated with a written document; or
- Phone logs or other supporting documentation delineating and/or explaining the duties performed to support employee office time may be supplied in lieu of descriptions of work performed on employee timesheets.

The following table represents a guide as to what is considered a typical level of effort to generate certain public notifications. Additional effort beyond these limits should be accompanied with an explanation of events or conditions requiring additional cost. Note that these are not considered “budgets” or “goals” and that documentation must be submitted to substantiate the cost actually incurred. When the preparation of multiple notices are included, a breakdown of costs per notice

with the claim/invoice is to be provided.

<b>Example Public Notices</b>	<b>Typical Costs</b>
Phase IV Implementation Notice, PWS, IA, or Surficial Soil residential sampling Notices, each	\$350
IRA taken to prevent, control, assess, eliminate IH or CEP, each	\$350
IRA Comps on p,c,a,e IH or CEP –, each	\$350
Phased Report Completion Statements and Public Notices, or RAM Notices – to the 2-series report code	\$350
PS or TS notices – per submittal basis (includes a \$200 kicker for 1013(1)(c) exceptions )	\$350
DPS Notice or DPS Modification Notice, per property	\$350
RNF Distribution Notice, per RTN	\$350
Public safety threat issues – adding Police and Fire	\$350
Non-Property owner work notice of results to property owner (BWSC-123)	
notice, per property	\$160
results, per property	\$160
Affected Individual Notices – per individual basis, each	\$275
BWSC-122 (Phase II, etc.), per property	\$275

#### **Task Code 2.21 - Prepare Monitoring Well & Boring Logs**

This task code is for the labor to complete monitoring well reports and/or boring logs associated with the installation of borings and monitoring wells. Documentation to support the use of this task code must consist of monitoring well reports and/or boring logs or reference the previously submitted report the log is included in. This task code may only be used once per boring. Monitoring well reports and/or boring logs prepared by the driller are included in Task Codes 9.3.1.1 and 9.3.1.3 and are excluded from this task code.

#### **Task Code 2.22 - Prepare Remedial Monitoring Report (RMR) Form**

This task code is for costs associated with preparing the MassDEP RMR Form (310 CMR 40.0027) and can only be used when the RMR is not accompanied by a Status report, e.g. when a monthly RMR is required. In cases where the RMR Form is being submitted in conjunction with another report, the costs to prepare the form should be claimed under the corresponding report task code that the form is being submitted with.

#### **Task Code 2.23 – Site Cleanup Status Review**

This task code is for the labor and other incidental direct costs required to complete the Site Status Review Report as outlined in the Board’s policy entitled *Site Cleanup Status Review Policy - Pilot Program* and upon request by the Board, attend a Site Status Review meeting to present the findings of the report to the Board. Reimbursement for costs associated with the task will only be allowed if the Board has requested that 1) the report be prepared and 2) meeting attendance is required.

#### **Task Code 2.23.1 - Items covered under these task codes include:**

- Labor costs to prepare and electronically submit the Site Status Review report to the UST Program (report contents and format in accordance with Site Cleanup Status Review - Pilot Program).
- Incidental other direct costs required to prepare the report.

**Task Code 2.23.2** - Items covered under these task codes include:

- Labor costs to attend the Site Status Review meeting - NTE 6 hours per person (2 people) - including travel time: the site LSP-of-Record plus one project-assigned Sr. Scientist/Engineer/Project Manager.
- Travel expenses – includes mileage, rental vehicle, etc.

#### **4.3 TASK CODE 3 – HEALTH AND SAFETY (TASK CODES 3.1 THROUGH 3.7.2)**

The following task codes shall be used when developing health and safety plans and updates and when using protective and confined space entry equipment.

##### **Task Code 3.1 - Health & Safety**

The Health & Safety Plan (H&S Plan) (29 CFR 1910.12 and any other applicable OSHA regulation) shall cover all activities performed at a petroleum contaminated site (e.g., sampling, excavation, and remediation of petroleum contaminated soil and groundwater). Only one initial H&S Plan is allowed per site; subsequent plans are considered updates and are reimbursed as Task Code 3.2 - H&S Plan Update. A site visit necessary for plan completion is to be completed under other sub-tasks.

The Health & Safety Plan shall include the following:

- organizational structure for site activities;
- brief site history;
- tasks to be performed;
- hazard analysis for each task to be completed;
- employee assignments;
- personal protection equipment;
- medical surveillance;
- frequencies and types of air monitoring;
- description of site control methods;
- decontamination methods;
- emergency response plan;
- emergency phone numbers;
- site plan; and
- hospital route.

##### **Task Code 3.2 - Health & Safety Plan Update (H&S Plan Update)**

A H&S Plan Update should be completed regularly (at a minimum of every two years) to ensure it is current with regard to applicable emergency information or when there has been a change in the scope of work requiring the performance of activities not previously conducted (e.g., drilling or excavation activities). There are no limitations on the number of H&S Plan updates which can

be filed for reimbursement; however, reimbursement for the update requires that the update meet the same guidelines as specified for the H&S plan and that the new activities being covered by this update be clearly delineated. This task code may not be used when there has been a change in ownership of the site or claimant. This task code may be used when there is a new consultant that is required to prepare a H&S Plan.

### **Task Code 3.5 - Level C Personal Protective Equipment (OSHA 29 CFR, 1919.120)**

Personal protective equipment (PPE) are devices worn by workers to protect them against work-related hazards such as liquid or air contaminants, falling materials, and noise. This task code are used in addition to the task codes used for the activities completed on site. See the following entries for additional information.

Level C PPE is selected when the concentrations(s) and type(s) of airborne substance(s) is known, can be monitored, and the criteria for using air purifying respirators are met. The following constitute Level C Equipment:

- Full-face or half-mask, air purifying respirators (NIOSH approved);
- Hooded chemical-resistant clothing (coveralls, two-piece chemical-splash suit, disposable chemical-resistant coveralls);
- Coveralls;
- Gloves, outer chemical-resistant;
- Gloves, inner, chemical-resistant;
- Boots, outer, chemical-resistant steel toe and shank;
- Boot-covers, outer, chemical-resistant (disposable);
- Hard hat (under suit);
- Escape Mask; and
- Face shield.

### **Task Code 3.6 - Confined Space Entry Equipment (OSHA 29 CFR 1910.146)**

A confined space is a space large enough for a person to enter, has limited means of entry and exit, and is not designed for continuous occupancy. Confined spaces have limited natural ventilation, making it easier for gases or vapors to accumulate. A permit-required confined space poses one or more of the following hazards:

- Potentially hazardous atmosphere.
- Potential engulfment of worker.
- An internal configuration, such as a tapered floor, which could cause a worker to become trapped.
- Any other serious safety or health hazard such as high temperatures or unguarded machinery.

Copies of all completed confined space entry permits are required for reimbursement of confined space entry equipment charges.

### **Task Codes 3.7.1 and 3.7.2 - Air or Soil Gas Monitoring**

Air monitoring of petroleum product-derived air contaminants shall be applied to this task code. Air monitoring may be conducted on site at any time and areas often screened are man-way/manhole drains, utility trenches, drainage sumps, and indoor air of station buildings or

kiosks. This task may be also used for a pre-sampling site inspection event in order to identify and remove potential non-eligible sources of contamination at least 48 hours (or more depending on building space air exchange rates) prior to the actual air sampling event. Task Code 3.7.1 is used when greater than 6 hours (including travel time) is applied to air monitoring activity; Task Code 3.7.2 is used when 6.0 hours or less (including travel time) is applied to air monitoring activity. For example, set up and removal of a 24 hr SUMMA canister for indoor air monitoring over two days would use Task Code 3.7.2 twice as the setup and take down occurred on different days.

If air sampling work under Task Code 3.7.2 is being claimed on the same day as other sampling events such as well gauging and sampling, travel costs should be claimed under the primary sampling event.

Items covered under these task codes include:

- Labor to coordinate and conduct air monitoring, field screening, sample collection, and supervision;
- Field preparation and breakdown (including setup and removal of SUMMA canisters if applicable);
- Travel time and vehicle expenses to/from site;
- PID, oxygen/explosion meter;
- Toxic gas monitoring and/or sampling equipment (air pump and calibrator);
- Sample jars/bags, sampling incidentals, color metric sampling equipment; and/or
- Sample preparation, logging, storage, and transportation of samples to laboratory.

#### **4.4 TASK CODE 4 – PRE-FIELD ACTIVITIES (TASK CODES 4.1 THROUGH 4.3)**

The following task codes shall be used in order to supervise and coordinate drilling activities, remedial system installation/removal activities, and other substantial subsurface assessment and/or remedial response actions [coordination for routine well gauging/sampling, remedial system operation and maintenance (O&M)], EFR, disposal events, etc. shall not be allowed).

##### **Task Code 4.1 - Pre-Field Activity Coordination and Implementation**

Scheduling of field activities with subcontractors, site owners, and/or personnel conducting field work shall be applied to this task code (this does not include labor to obtain offsite access, see Task Code 5.1). This also includes phone calls and administrative time if required to generate work orders, etc. Employee timesheets documenting the office work performed shall be provided to support the charges. Phone logs or other supporting documentation delineating and/or explaining the duties performed to support employee office time may be supplied in lieu of employee timesheets. All services claimed must have a date of service on or prior to the actual event. Preparation time for the actual oversight of the event (e.g., ordering sample kits, gathering supplies, loading trucks, etc.) should be claimed under the actual oversight task code.

##### **Task Code 4.2 – Pre-Field Activity Site Visit, Dig Safe and Utility Pre-Mark**

This task code is for the labor, materials, and equipment associated with a site visit performed before any substantial subsurface assessment or remedial response activity in order to develop/design/inspect a site-specific work plan. This task code also includes activities to obtain

subsurface utility clearance shall be performed prior to any subsurface event and include costs associated with the pre-marking of site. Dig Safe charges that are incurred after the subsurface event are not reimbursable.

Documentation should include:

- Phone logs for Dig Safe call-in.
- Field notes for pre-marking activity.

Two site visits are allowed, up to the task maximum, per field event (a field event is one or more contiguous days of drilling, soil excavation, air monitoring, remedial system installation, etc.). Field notes reflecting the purpose of the site visits are required.

#### **Task Code 4.3 – Post-Field Activity Site Visit**

This task code is for the labor, materials, and equipment associated with a site visit performed within 30 days after any substantial subsurface assessment or remedial response activity in order to evaluate the assessment or response activities.

#### **Task Code 4.4 – Utility/ Equipment Survey**

This task code is for the labor, materials and equipment (i.e., magnetometer, utility line locator, “Schonstedt” pipe locator etc.) necessary to locate underground utility lines on private property and/or subsurface equipment prior to subsurface assessment/and or remediation activities. One utility/equipment survey is allowed per owner per facility up to the task maximum unless new underground utilities have been installed since the prior utility survey (e.g., substantial station renovations, new tank installation, etc.). This task code is biddable. Utility location information must be included in a report filed with MassDEP. Oversight costs should be coded to Task Code 9.10.

*Supporting documentation consists of oversight field notes, contractor report, contractor invoice(s) to support the labor and equipment charges and identification of the report submitted to MassDEP where the utility survey information is contained.*

### **4.5 TASK CODE 5 – OBTAIN PROPERTY ACCESS (TASK CODE 5.1)**

#### **Task Code 5.1 – Obtain Off-Site Property Access**

Off-site access is required when it is necessary to conduct assessment and/or remedial activities on a property other than the actual site to determine the extent of the release and/or to remediate it. One off-site access agreement is allowed per property and/or scope of work (e.g., installation of off-site monitoring wells, vapor gas points, sub-slab depressurization system, off site indoor air monitoring, etc.). Once an access agreement has been established, communications where coordination is required with the off-site owner to notify them of an associated upcoming event shall be claimed under the task code of the actual event being performed (e.g., scheduling a sample event). Other correspondence and reports sent to off-site property owners will be reimbursed under Task Code 2.19, Public Involvement [310 CMR 40.1400] or their respective report task code.

Items covered under this task code include:

- Labor and materials to prepare and submit an access agreement letter.

- Labor to communicate with off-site property owner.

Either an access agreement letter or phone logs shall be provided to support the charges. Charges are eligible as long as attempt(s) were made to gain access.

#### **4.6 TASK CODE 6 – EXCAVATED SOILS MANAGEMENT, HANDLING, REPORTING, SHORING, BIOREMEDIATION, AND OXIDANT/SURFACTANT INJECTIONS (TASK CODES 6.1 THROUGH 6.13)**

The following task codes shall be used when managing, excavating, handling, and remediating contaminated soils.

##### **Task Codes 6.1.1 and 6.1.2 - Excavated Soil Field Monitoring, Shoring and Soil Load Out Oversight**

These task codes may be used when performing field monitoring of soil excavations, shoring and soil load out oversight activities. Task Code 6.1.1 is used when greater than 6 hours of one person's time (including travel time) is applied to these activities; Task Code 6.1.2 is used when 6.0 hours or less (including travel time) is applied to these activities. Evidence in the form of field notes and/or lab data of samples collected must be provided to document the occurrence of excavated soil field monitoring.

Items covered under these task codes include:

- Coordination and labor to conduct excavated soil field monitoring, sample collection, shoring, soil load-out oversight;
- Field preparation and breakdown;
- Travel time and vehicle expenses to/from site;
- Materials and equipment (inclusive of PID, oxygen/explosion meter, etc.); and
- Sample preparation, logging, storage, and transportation of samples to laboratory.

##### **Task Code 6.1.3 - Soil Excavation, Placement and/or Shoring**

This task code is for the labor (e.g., operator, foreman, laborer) required to perform the excavation of petroleum contaminated soils, excavation shoring, and/or placement of backfill. Backfill material costs should be coded under Task Code 6.6. Equipment should be coded to Section 28 without operator. The equipment, operator and/or laborer costs should be clearly distinguished on the invoice. All consultant charges (subcontractors included) must be supported with backup. Backup for excavation and shoring subcontractor invoices must include equipment rates, equipment hours, labor rates, labor hours, and itemized materials breakdown. Evidence in the form of lab data or field observation notes for soil samples collected from the excavated area must be provided to document excavation to remove soils impacted by petroleum release. Task Code 6.1.3 assumes a crew consisting of an equipment operator, a foreman, a truck driver and a laborer for 8 hours per day. Note that this task code is also biddable.

Items covered under this task should include:

- Labor to conduct contaminated soil excavation, shoring, and/or backfill placement;
- Field preparation, mobilization, and breakdown; and



- Travel time to/from site.

Items not covered under this task include:

- Backfill material (see Task Code 6.6).
- Excavation equipment and vehicles (see Task Code 28).

### **Task Code 6.2 – Disposal Management**

This task code is for labor costs associated with management and coordination of the loading, transportation and disposal of petroleum contaminated media.

Items covered under this task code include:

- Review of laboratory analytical results for contaminated media disposal;
- Coordination with subcontractors for removal and disposal/recycling of contaminated media; and
- Preparation of documentation [Bill of Lading (BOL), Hazardous Waste Manifest, or Material Shipping Record (MSR)].

Charges shall be reimbursed for work performed prior to the date of the latest BOL, Hazardous Waste Manifest or MSR. If it can be sufficiently established that work performed after the date of the latest BOL, waste manifest or MSR is directly related to the management of the BOL, Hazardous Waste Manifest, or MSR pursuant to the MCP, charges shall be allowed.

For bulk soil disposal the task maximum is applied to every 300 tons of fund-eligible soil disposed offsite.

### **Task Codes 6.4 to 6.5 - Soil Disposal/Recycling**

These task codes shall be used for disposal or recycling of petroleum contaminated soils, as that term is defined under 310 CMR 40.0000. This item will be paid "At Cost" (i.e., no bid required) for disposal at licensed facilities located in New England and New York. For all other disposal facilities, a minimum of three (3) competitive quotes for soil disposal with three (3) competitive corresponding transportation must be solicited prior to conducting the work. All quotes must be provided in (or converted to) \$/ton prices. Each disposal bid submitted must include two parts: the disposal or tipping bid and the corresponding transportation cost from the Site to the facility. If the required bids are not submitted, the maximum allowed under this task code will be \$70 per ton, inclusive of transportation, disposal, taxes, surcharges, and fees.

All excavated soils shall be managed in accordance with 310 CMR 40.0000. The maximum weight of soil eligible for reimbursement per site shall be 8,000 tons (1 cubic yard equals approximately 1.5 tons of soil), regardless of disposal/recycling method selected. Supporting documentation in the form of copies of the BOL, Hazardous Waste Manifests, and/or weight slips (any one of which constitutes sufficient backup) must be attached to all invoices submitted for soil disposal/hot recycling, cold recycling, or lined landfill.

Items covered under these task codes include:

- Labor, equipment, and materials to transport soil from site to disposal/recycling facility;
- Disposal/recycling costs; and
- Fuel surcharge.

Items not covered under these task codes include:

- Labor, equipment, and materials to load soil from site onto trucks, see Task Code 6.1.3;
- State hazardous waste transporters fee; and
- Insurance surcharge.

#### **Task Code 6.6 – Backfill/Restoration Materials**

This task code is associated with any type of material (e.g., loam, sand, stone, asphalt, etc.), as long as it does not constitute landscaping work. Loam is eligible for restoration of excavation activities in areas where loamed areas previously existed. Any restoration beyond original condition is not eligible for reimbursement.

Backfill costs shall not be claimed for the volume of tanks removed and not replaced.

Items covered under this task code include:

- Labor, equipment, and materials to transport backfill to site; and
- Backfill material costs.

Items not covered under this task code include:

- Landscaping expense;
- Trees;
- Shrubs; and
- Signs.

#### **Task Code 6.7 - Bioremediation**

This task code is associated with Bioremediation, a process that uses indigenous or cultured microorganisms to return the environment altered by petroleum contaminants to its original condition. Labor, equipment, and materials for gauging and/or sampling of wells not receiving injections are to be reimbursed under Task Code 11, (labor and equipment for travel on the same day as a bioremediation event are to be reimbursed under Task Code 6.7). The purchase and installation of oxygen filter socks shall be reimbursed under Task Codes 6.8.1 to 6.8.4 and Oxygen Release Powder shall be reimbursed under Task Codes 6.9.1. Oxygen cylinders shall be reimbursed under Task Code 6.10. All consultant charges (subcontractors included) must be supported with backup. Backup for bioremediation subcontractor invoices consists of labor hours, labor rates, and itemized equipment and materials breakdown.

Items covered under this task code include:

- Labor to coordinate, conduct, and oversee bioremediation application event;
- Field preparation and breakdown;
- Travel time and vehicle expenses;
- Labor, equipment, and materials to gauge and/or sample wells receiving injections on the day of injection;
- Materials and equipment; and
- Cost of bacteria, nutrients, water, and other materials/supplies necessary for the bioremediation application.

To determine the maximum cubic yards that will be reimbursed for this task code, the nature and extent of petroleum contamination at the site must be characterized in accordance with 310 CMR 40.0835(4)(f). A site plan delineating the horizontal and vertical extent of petroleum impacted soil and/or groundwater as well as soil test boring logs, and soil and/or groundwater data from within the petroleum impacted area shall be provided as supporting documentation. The depth to the petroleum impacted soil and/or groundwater and its associated thickness shall be indicated on the site plan along with the calculations for the total volume of contaminated soil at the site, in cubic yards. The total calculated volume of petroleum impacted soil is a lifetime maximum for the site. The cubic yard calculation should be based on the total treated area, not just a hot spot that may be targeted for limited remediation.

#### **Task Codes 6.7.1 and 6.7.2 – Bioremediation/Chemical Application Feasibility Bench Scale Evaluation and Report**

This task code should be used to conduct a bench scale test to determine the feasibility of using bioremediation or chemical application as a remedial option. A report should be generated with the data accumulated during the test that clearly indicates the feasibility of a bioremediation program as a remedial option. Backup for this task code should include the final report and all supporting documentation.

Items covered under this task code include:

- Labor to coordinate and conduct the bioremediation/chemical oxidation bench scale test;
- Materials and equipment for the test;
- Cost of bacteria, nutrients, water, and other materials/supplies necessary for the bench scale test; and
- Labor to complete the report detailing the test procedures and the results.

#### **Task Codes 6.8.1 to 6.8.3 - Purchase and Installation of Oxygen Filter Socks**

This task code shall be used for the purchase and installation of oxygen filter socks on a per foot basis. Labor for the installation of the socks is to be coded to Task Code 6.8.4.

#### **Task Code 6.11 - Chemical Injection**

This task code shall be used when performing chemical injection activities. Oxidants and associated amendments are to be reimbursed under Task Code 6.11.3. Pre-event coordination activities are to be reimbursed under Task Code 4.1. Carbon injections are to be claimed under Task Code 6.7.

Items covered under this task code include:

- Labor to, conduct, and oversee chemical application events;
- Labor to gauge and sample chemical injection wells and wells used to determine extent of injection;
- Field preparation and breakdown;
- Travel time and vehicle expenses; and
- Materials and equipment.

Items not covered under this task code include:

- Labor, equipment and materials to oversee chemical injection events performed by a contractor/subcontractor (including monitoring wells receiving injections).

### **Task Code 6.13 - Injection Oversight**

This task code is to be used when providing oversight of a subcontracted injection event.

Items covered under this task code include:

- Labor to oversee, field screen and document the injection event;
- Field preparation and breakdown;
- Travel time and vehicle expenses;
- Field screening equipment;
- Labor to monitor wells receiving chemical injections and wells used to determine extent of injection; and
- On site coordination.

## **4.7 TASK CODE 7 – PORTABLE GAS CHROMATOGRAPH (TASK CODES 7.1 THROUGH 7.2)**

The following task codes shall be used when performing on-site chemical analysis with a portable gas chromatograph (GC). The portable gas chromatograph is a chemical analysis instrument used to separate chemicals in a complex sample. The analyses are limited to total volatile hydrocarbons or aromatics. All charges must be supported with time and materials backup (dates of service, labor hours, labor rates, itemized equipment, and materials breakdown), field notes and GC calibration records. This task code is biddable.

### **Task Code 7.1.1, 7.1.2 and 7.1.3 – Portable Gas Chromatograph**

These task codes should be used when utilizing a portable GC on site. Task Code 7.1.1 should be used when 6 hours or less (including travel time) is applied to portable GC activities at the site. Task Code 7.1.2 should be used when more than 6 hours (including travel time) is applied to portable GC activities at the site. Task Code 7.1.3 should be utilized when the portable GC is utilized on a weekly basis.

Items covered under this task code include:

- Labor to coordinate and conduct chemical analysis event;
- Field preparation and breakdown;
- Travel time and vehicle expenses; and
- Equipment such as syringes, sample jars, regulators, carrier gas, etc.

Items not covered under this task code include:

- Soil sample collection (see Task Code 6, 9, 18 or 28).
- Ground water sample collection (see Task Code 11).
- Air sample collection (see Task Code 3).

### **Task Code 7.1.4 – Analysis/Sampling Report**

This task code should be used to complete the Analysis/Sampling Report for the event that utilized

the portable gas chromatograph. Only one report per event will be reimbursed. An event is considered one or more consecutive days of portable gas chromatograph use.

#### **Task Code 7.1.5 to 7.2 – Tedlar Bags and Soil Gas Sensors**

These task codes should be used for the listed items when they are used in the analyses completed with the portable gas chromatograph.

**[Task Code 8 intentionally removed]**

### **4.8 TASK CODE 9 – DRILLING ACTIVITIES (TASK CODES 9.1 THROUGH 9.8)**

The following task codes shall be used for the installation of all borings and wells (e.g., ground water monitoring, ground water/LNAPL recovery, soil vapor extraction, air sparge, injection wells, soil gas points, etc.) with related oversight, soil sampling, grouting, surveying, and drafting. Boring permits required by local agencies should be coded to Task Code 17.1.5.

#### **Task Codes 9.1.1 to 9.1.2 – Equipment Mobilization/Demobilization**

These task codes are to be used to mobilize and demobilize drilling equipment and drilling personnel to the site. The task codes can be used once for each day of drilling on the site.

Items not covered under this task code include:

- Travel for oversight personnel (see Task Codes 9.2.1 and 9.2.2).

#### **Task Code 9.1.3 – Overtime**

This task code is to be used to cover overtime costs associated with the drill rig and drilling personnel when it is more cost effective to work a longer day than complete another day of drilling. This task code is to be used for onsite time over 8 hours in a day. Backup for this task code should include a job sheet indicating the time the driller arrived at the site and the time the driller left the site.

Items not covered under this task code include:

- Mobilization/Demobilization time (see Task Codes 9.1.1 and 9.1.2).
- Overtime for oversight personnel (see Task Codes 9.2.1 and 9.2.2).

#### **Task Code 9.2 – Drilling Oversight**

This task code shall be used when performing drilling oversight activities. Task Code 9.2.1 is used when greater than 6 hours of one person's time (including travel time) is applied to the oversight of the drilling event; Task Code 9.2.2 is used when 6 hours or less (including travel time) is applied to the oversight of the drilling event.

Items covered under this task code include:

- Labor to oversee, field screen and document drilling event;
- Field preparation and breakdown;
- Travel time and vehicle expenses;
- Sample preparation, logging, storage and transportation;
- Field screening equipment; and

- On site coordination.

### **Task Code 9.3 – Drill Rig and Material**

These task codes should be used for the drill rig day rate and materials used to install soil borings, ground water monitoring wells, ground water extraction wells, soil vapor extraction wells, air sparge well, injection well, bedrock wells, soil gas sampling points, etc. Air knifing activities to pre-clear boring locations should be coded to the appropriate equipment task code. Material not specifically included in the fee schedule (e.g., stainless steel screen) should be bid.

### **Task Code 9.3.1.6 – Half Day Drilling Contingent**

This task code should be used if less than four hours of drilling activities occur on site for all drill rigs covered under Task Code 9.3.1.

### **Task Code 9.3.3 – Road Box Installation**

This task code should be used when a road box is initially installed not in conjunction with drilling activities. Road boxes are considered 18-inches in diameter or less. Replacement of road boxes should be coded to Task Code 24.

### **Task Code 9.3.3.1 – Road Box Installation**

This task code should be used when a road box is initially installed in conjunction with drilling activities. Road boxes are considered 18-inches in diameter or less. Replacement of road boxes should be coded to Task Code 24.

### **Task Code 9.3.4 – Manhole Installation**

This task code should be used when a manhole is initially installed not in conjunction with drilling activities. Manholes are considered greater than 18-inches in diameter. Replacement of manholes should be coded to Task Code 24. Installation of manholes during trenching/remediation installations should be coded to Task Code 18.3/18.4.

### **Task Code 9.3.4.1 – Manhole Installation**

This task code should be used when a manhole is initially installed in conjunction with drilling activities. Manholes are considered greater than 18-inches in diameter. Replacement of manholes should be coded to Task Code 24. Installation of manholes during trenching/remediation installations should be coded to Task Code 18.3 or 18.4.

### **Task Code 9.4 – Rock Coring**

These task codes should be used for the rock coring and associated materials.

### **Task Code 9.5 and 9.5.1 – Vibratory/Slide hand-held hammer**

These task codes include the cost for all labor, materials and equipment to collect soil, or groundwater samples, or install soil gas points. Travel for this task should be coded under Task Code 9.1.

### **Task Code 9.6 – Hand Augering**

This task code includes labor and equipment for hand augering for soil sample collection or soil point installation. Use Task Codes 9.3.2.1 - 9.3.2.4 for well materials. Travel for this task should be coded under Task Code 9.1.

### **Task Codes 9.7.1.1 and 9.7.1.2 - Unlicensed Surveying**

These task codes shall be used when performing unlicensed surveying activity. Task Code 9.7.1.1 is used when 6 hours or less (including travel time) is applied to these activities. Task Code 9.7.1.2 is used when greater than 6.0 hours (including travel time) is applied to these activities. Unlicensed utility location survey must be claimed under Task Code 4.4.

Items covered under this task code include:

- Labor to coordinate and conduct survey event;
- Field preparation and breakdown;
- Mobilization/demobilization, travel time, and vehicle expenses; and
- Survey equipment.

### **Task Code 9.7.1.3 - Drafting for Unlicensed Survey**

This task code shall be used when performing drafting activities associated with any unlicensed surveying event. This drafting is generally associated with site feature base maps (property lines, buildings, monitoring wells, borings, etc.). Drafting associated with specific report requirements (water table maps, plume maps, etc.) shall be coded to the specific report in Task Code 2.0.

### **Task Code 9.7.2.1 and 9.7.2.2 – Professional Survey**

These task codes shall be used when performing surveying by a licensed professional surveyor. Task Code 9.7.2.1 is used when 6 hours or less (including travel time) is applied to these activities. Task Code 9.7.2.2 is used when greater than 6 hours (including travel time) is applied to these activities. Oversight of subcontracted licensed professional surveyors should be coded to Task Code 9.10.

Items covered under this task code include:

- Labor to coordinate and conduct survey event;
- Field preparation and breakdown;
- Mobilization/demobilization, travel time, and vehicle expenses; and
- Survey equipment.

### **Task Code 9.7.2.3 - Drafting for Professional Survey**

These task codes shall be used when performing drafting activities that correspond to the surveying event performed by a licensed Professional Land Surveyor (PLS) document (usually a figure or drawing) stamped by a PLS and/or license of the PLS who performed the survey shall be provided to support the charges claimed.

### **Task Code 9.8 - Professional Utility Survey**

This task code shall be used to perform professional utility surveys of above and underground utilities, inverts, reference to the most current industry-accepted datum, and drafting. A PLS stamped drawing shall be provided to support the charges claimed. Oversight of subcontracted

utility surveyor activities should be coded to Task Code 9.10.

Items covered under this task code include:

- Labor to coordinate and conduct survey event;
- Field preparation and breakdown;
- Mobilization/demobilization, travel time, and vehicle expenses; and
- Survey equipment.

#### **Task Code 9.9 – Ground Penetrating Radar Survey & Report**

This task code shall be used to perform a ground penetrating radar (GPR) survey to identify unregistered buried underground storage tanks. A separate GPR survey report shall be provided to support charges claimed. Note: GPR survey activities for identification of subsurface utilities should be coded to Task Code 4.4.

#### **Task Code 9.10 – Survey Oversight**

This task code shall be used for time spent by the consultant (including travel time and vehicle) to meet the licensed Professional Land Surveyor on site on the day of the event to define the parameters of the survey to be performed.

### **4.9 TASK CODE 10 – WELL DEVELOPMENT (TASK CODES 10.1 THROUGH 10.6)**

These task codes shall be used when performing initial well development of newly installed wells, clearing of an obstructed well, and redevelopment of existing wells in accordance with MassDEP WSC 310-91 or most recent MassDEP guidance/regulation. This task code cannot be used on a regular basis to remove water containing sediment prior to a sampling event. If well development tasks are used on the same day as a drilling event, the field notes must distinguish the well development/oversight activity from the drilling/oversight activity. The field notes and invoices must document labor hours worked to develop wells and must identify which wells were developed. All costs will be applied to the per hour maximums. The hourly rate includes all personnel, equipment and material associated with the task. All charges must be supported with time and materials backup (date of service, labor hours and labor rates, itemized equipment and materials breakdown).

#### **Task Codes 10.1.1 and 10.1.2 – Equipment Mobilization/Demobilization**

These task codes shall be used for equipment mobilization/demobilization and all travel costs for the development of all wells. Task Code 10.1.1 should be used when traveling 50 or fewer miles to the site. Task Code 10.1.2 should be used when traveling greater than 50 miles to the site.

#### **Task Codes 10.2 to 10.6 – Well Development**

These task codes may be used when performing well development activities for 2-inch through 26-inch wells.

Items covered under this task code include:

- Coordination and labor to perform well development/clearing and oversight;
- Drill rig;
- Well development tools and materials; and



- Steam cleaner.

Items not covered under this task code include:

- Disposal of debris/liquids generated during well development (see Task Code 28.18.5).

#### **4.10 TASK CODE 11 – GROUNDWATER GAUGING/BAILING AND SAMPLING (TASK CODES 11.1 THROUGH 11.6)**

These task codes shall be used when performing groundwater well gauging, bailing, and sampling activities to monitor both on and off-site conditions. Coordination, preparation, materials, and equipment charges shall correspond to actual activity performed (e.g., gauging, bailing, sampling); only travel time and vehicle expenses should be applied to Task Code 11.1.1. Field notes shall include the identity of the wells sampled in addition to all data gathered from the sampling event. Effluent sampling of POET systems from the tap shall be reimbursed as Task Code 23.1. Groundwater sampling utilizing a pump in any capacity should be applied to TC 11.1.8. Task Codes 11.1.3 and 11.1.8 include the equipment and labor required to collect field measurements. Task Code 11.1.7 is only to be used when sampling is not performed.

Items covered under these task codes include:

- Labor to coordinate and conduct groundwater well gauging, product bailing, and sampling event;
- Labor to install/place/inspect/remove passive skimmers (i.e., adsorbent boom/socks etc.) (Note: Cost of passive skimmer to be coded under Task Code 29);
- Field preparation and breakdown;
- Travel time and vehicle expenses;
- Sampling and gauging equipment;
- Sample jars;
- Sample logging;
- Sample storage;
- Transportation of sample to laboratory;
- Instruments; and
- Decontamination materials.

#### **Task Code 11.2 – Safety Person**

This task code should be used when an additional person is required for safety reasons, for example groundwater sampling in a roadway, active parking lot, or other location/situation documented in the site health and safety plan. Travel time for the extra person is assigned to Task Code 11.1.1, one task maximum per event. Separate field notes are required documenting the times and activities performed by the safety person.

#### **4.11 TASK CODE 12 – AQUIFER PUMP TEST (TASK CODES 12.1 THROUGH 12.1.1.4)**

These tasks codes shall be used when performing an aquifer pump test (DEP WSC 310-91). An aquifer pump test is a controlled procedure in which water is withdrawn from a well at a constant rate for a specified period of time. The water level in the well is measured at certain intervals

before, during and after pumping and can be performed during 8, 12, 24 or 48-hour pump discharge tests. All charges (subcontractors included) must be supported with time and materials backup (date of service, labor hours and labor rates, itemized equipment, and materials breakdown). Field notes and associated documentation completed after the test shall also be provided to support charges claimed. The pump test results are usually included in other report(s) submitted to MassDEP. In this case, the claimant should indicate what report the documentation is included in.

Items covered under this task code include:

- Coordination and labor to conduct aquifer pump test (gauging of monitoring wells associated with testing is included);
- Field preparation and breakdown;
- Equipment mobilization/demobilization and decontamination;
- Travel and vehicle expenses;
- Equipment set-up and breakdown;
- Site cleanup;
- Materials and equipment; and
- Data evaluation, documentation, and report.

In addition, the following task codes shall be used as appropriate:

- Task Code 7.0, Portable Gas Chromatograph.
- Task Code 17.0, Permitting.
- Task Code 23.5, Carbon Purchase/Disposal.
- Task Code 27.0, Lab Analysis.
- Task Code 28.0, Fluids Disposal and Equipment Rental (i.e., trucks, blowers, pumps, treatment devices, frac tank rental).

#### **4.12 TASK CODE 13 – RISING / FALLING HEAD (SLUG) TEST/LNAPL BAIL DOWN (TASK CODES 13.1.1 THROUGH 13.1.2)**

These task codes shall be used when performing a rising/falling head (slug) test per DEP WSC 310-91 or LNAPL transmissivity testing per ASTM E2856. Task Code 13.1.1 is used when 6 hours or more (including travel time) are applied to the testing activity. Task Code 13.1.2 is used when less than 6.0 hours (including travel time) are applied to the testing activity. The effort, equipment and materials to conduct a product bail-down test, slug test and LNAPL transmissivity test are similar and, therefore, it is also permissible to use this task code when performing a product bail down/recovery test or LNAPL transmissivity test. Field notes and associated documentation completed after the test shall be provided to support charges claimed. The slug test results are usually included in other report(s) submitted to MassDEP. In this case, the claimant should indicate what report the documentation is included in. One event per well is allowed except for LNAPL transmissivity testing, which requires providing a technical justification if additional events are required (e.g., seasonal groundwater fluctuation, post- remedial verification testing).

Items covered under this task code include:

- Coordination and labor to conduct rising or falling head (slug) test (gauging of monitoring wells associated with testing is included) or transmissivity test requirements per ASTM

- E2856;
- Field preparation;
- Equipment mobilization/demobilization and decontamination;
- Travel and vehicle expense;
- Equipment set-up and breakdown;
- Site cleanup;
- Materials and equipment (including data logger, if necessary); and
- Data evaluation, documentation, and report.

In addition, the following task codes shall be used as appropriate:

- Task Code 2.7.5, Micro/Macro scale NAPL evaluation.
- Task Code 23.5, Carbon Purchase/Disposal.
- Task Code 27.0, Lab Analysis.
- Task Code 28.0, Fluids disposal and equipment rental (i.e., trucks, blowers, pumps, treatment devices, frac tank rental).

#### **4.13 TASK CODE 14 – SOIL VAPOR EXTRACTION (SVE)/AIR SPARGE (AS) PILOT TESTING (TASK CODES 14.1 THROUGH 14.1.4)**

These task codes are used when performing Soil Vapor Extraction/Air Sparge pilot testing (SVE/AS testing). All charges (subcontractors included) must be supported with time and materials backup (date of service, labor hours, labor rates, itemized equipment and materials breakdown). The specific pilot test task codes are determined by the technology and presence of air emissions treatment activity. Only one pilot test per technology per site is allowed. If delays occur between the coordination efforts and the actual event, reasons for the delay and a revised schedule for the event shall be provided. Field notes and associated documentation completed after the test shall be provided to support charges claimed. The pilot test results are usually included in other report(s) submitted to MassDEP. In this case, the claimant should indicate what report the documentation is included in. Note that fluids extracted via vacuum shall be reimbursed as Task Code 28.18.4.3.

Items covered under this task code include:

- Coordination and labor to conduct SVE/AS testing (gauging of monitoring wells associated with testing is included);
- Field preparation;
- Equipment mobilization/demobilization and decontamination;
- Travel and vehicle expenses;
- Equipment set-up and breakdown;
- Equipment and materials;
- Site cleanup; and
- Data evaluation, documentation, and report.

In addition, the following task codes shall be used as appropriate:

- Task Code 17.0, Permitting.
- Task Code 23.5, Carbon Purchase/Disposal.

- 4.14 TASK CODE 15 – REMEDIAL FEASIBILITY STUDIES (TASK CODES 15.1.1 AND 15.1.2)**  
**Task Codes 15.1.1 and 15.1.2 – Net Present Value**

The remediation strategy/equipment investment with the lowest NPV should be selected if this alternative is expected to achieve MassDEP required cleanup standards. For example, two alternative strategies are available for the treatment of off-gas from an air tray stripper. The first alternative provides for the treatment of off-gas via catalytic incineration for a period of four years. The cost of the catalytic incinerator is \$25,000. It will cost \$10,000 to install the catalytic incinerator and \$15,000 per year for operating and maintenance expenses, including electricity.

Therefore, assuming the equipment will be needed for a period of four (4) years, the NPV of the alternative remediation strategies/equipment investments are calculated as follows:

Note: PVIF => Present Value Interest Factor

Therefore, the alternative strategy/remediation equipment with the lowest NPV represents the least cost alternative for treating the air stripper off-gas. Thus, catalytic incineration would be selected to treat the air stripper off-gas.

In the example presented above, the cost of capital was assumed to be ten percent (10%). For future analyses, the prime lending rate in effect at the time of the analysis shall be used as the cost of capital.

#### **4.15 TASK CODE 16 – LEASE/PURCHASE ANALYSIS AND BID REQUEST PREPARATION (TASK CODES 16.1 AND 16.2)**

These task codes shall be used to prepare studies to determine the feasibility of leasing remediation equipment vs. the purchase of remediation equipment and to prepare bid specifications and requests.

##### **Task Code 16.1 - Lease vs. Purchase Analysis**

This task code shall be used to determine the feasibility of leasing remediation equipment vs. the purchase of remediation equipment. The term “lease” and “rental” are interchangeable.

503 CMR 2.11(2)(f)1 states, “The Claimant shall determine whether purchase is more cost-effective than a lease and the Claimant shall, upon request of the Board, furnish supporting documentation to the Board of its determination;”. The following guidance is provided to facilitate the purchase vs. lease decision:

- a) Six (6) months of lease payments claimed will be allowed and not count towards the purchase price when remediation equipment is leased. A cost-benefit analysis shall be conducted after the six (6) month lease payments.
- b) Whether it is determined that it is more cost-effective to purchase or lease the remediation equipment, the 21J Fund will reimburse the Claimant not more than the purchase price, exclusive of the first 6 months of lease, sales tax, and freight, of the remediation equipment.
- c) Note that Sales Tax does not enter into the calculations as it is reimbursed at cost under Task Code 30.
- d) Note that freight does not enter into the calculations as it is reimbursed at cost under Task Code 31.
- e) If a lease option is selected, a copy of the quote showing the purchase price of the leased remediation equipment shall be provided to the Board with the cost-benefit analysis. At a minimum, the quote shall be of sufficient detail, with major components itemized, to evaluate the purchase price of the system.
- f) Three (3) bids/quotes for comparable equipment are required for all components which exceed \$5,000.00 per component and \$25,000.00 in the aggregate.

##### **Task Code 16.2 - Bid Specification Preparation**

This task code shall be used when preparing the specifications for equipment and/or mechanical and electrical scopes of work and sending the bid specifications to a minimum of three prospective bidders. (Note that Task Code 22.4 requires a minimum of 3 bids received if the bidding option is used, therefore it is strongly recommended that the bid specification is solicited to more than

three vendors. In all cases, all bids received must be submitted as backup.) Backup to support the bid preparation charges claimed should include the actual specifications sent to the bidders and verification that they were sent to at least three bidders. Costs are only reimbursed if charges are submitted as a bid and the lowest bid will be the amount reimbursed.

Items covered under this task code include:

- Preparation of the bid specification;
- Sending identical bid specification to at least three prospective bidders; and
- Communication with the prospective bidders.

Bid Requests should include:

- Equipment/mechanical/electrical specifications and/or scope of work;
- System design figures, drawings, and/or site maps; and
- Bid Forms with units of measure and estimated quantities for each item.

The subsequent invoice should correlate with each line item listed on the bid specification. Non-biddable items should either be listed on the bid as a separate line item or not be included in the bid.

#### **4.16 TASK CODE 17 – REMEDIATION PERMITTING AND REPORTING (TASK CODE 17.1 THROUGH 17.1.6)**

These task codes shall be used when performing activities associated with obtaining local, state, and federal permits, dewatering activities, and discharge monitoring report preparation. All permitting related activities (e.g., communication with permit authorities and preparation of applications) are included in the reimbursement rate. Permit fees to federal, state, or local governmental agencies are not reimbursable by the program; however, the efforts to obtain these permits are. Utility permitting should be coded under Task Code 20.

##### **Task Codes 17.1.1. to 17.1.1.6 - Discharge Permits**

These task codes shall be used when performing activities associated with obtaining local, state, and federal discharge permits to install, operate and maintain a remediation system.

##### **Task Code 17.1.1.7 to 17.1.1.7.3 – Discharge Monitoring Reports**

These task codes should be used when preparing Discharge Monitoring Reports required in the discharge permit. To be reimbursed for USEPA Dewatering Remediation General Permit (DRGP) monitoring reports, a copy of the report must be submitted with the claim.

##### **Task Code 17.1.1.8 - Remediation Dewatering**

This task code shall be used when performing activities associated with mobilizing/demobilizing, operating, and monitoring a dewatering system. This task code is also biddable.

Items covered under this task code include:

- All coordination and labor to conduct dewatering activities, including pre-mobilization coordination;
- Coordination of dewatering activities is limited to one half (1/2 ) hour of office time to

- each full (8 hours) of dewatering activity.
- Field preparation;
- Travel and vehicle expenses; and
- Equipment and materials (e.g., PID, oxygen explosion meter, toxic gas monitoring equipment, sample jars, sampling incidentals).

In addition, the following task codes shall be used as appropriate:

- Task Code 23.1.1 and 23.1.2, Equipment mobilization/demobilization and decontamination, Equipment set-up and breakdown;
- Task Code 23.5 carbon purchase/disposal;
- Task Code 27.0, lab analysis; and
- Task Code 28.0, fluids disposal and equipment rental (e.g., pumping wells, pumps, generators, storage tanks, carbon filters, air strippers, etc.).

#### **Task Codes 17.1.2-17.1.6 - General Permits**

These task codes shall be used when performing activities associated with applying and obtaining local and state required permits (e.g. local building department permits for treatment sheds, fire department permits for storage of compressed gas cylinders, local sidewalk permits, local trenching permits, local and state road opening permits etc.), Note: the permit fees and any “bonding fees” (if required) are ineligible, however, the costs associated with obtaining the permit(s) are eligible and all charges to obtain permits (subcontractors included) must be supported with time and materials backup and a copy of the permit obtained (date of service, labor hours and labor rates). If a permit is not approved or the permit is not otherwise obtained, permit-related costs will not be eligible.

#### **4.17 TASK CODE 18 – TRENCHING AND INSTALLATION OF UNDERGROUND PIPING AND EQUIPMENT, AREA/ENCLOSURE FOR SVE, AS AND/OR GROUNDWATER EXTRACTION SYSTEM (TASK CODES 18.1 THROUGH 18.6.12.3)**

These task codes shall be used when performing trenching and installation of underground piping and equipment for remediation systems. All charges (subcontractors included) must be supported with time and materials backup (date of service, labor hours and labor rates, itemized equipment and materials breakdown). Charges may be submitted as a bid, see Task Code 16.2.

#### **Task Codes 18.1 and 18.2 - Installation Oversight**

These task codes shall be used when performing oversight of trenching and installation of underground piping and equipment area/enclosure for remediation systems. Task Code 18.1 is used when greater than 6 hours (including travel time) is applied to these activities. Task Code 18.2 is used when 6.0 hours or less (including travel time) is applied to these activities.

Items covered under this task code include:

- Labor to conduct oversight of trenching and installation of underground piping and equipment area/enclosure for remediation systems;
- Equipment and materials (e.g., PID, oxygen explosion meter, toxic gas monitoring equipment, sample jars and sampling incidentals);
- Field preparation and breakdown; and

- Travel time and vehicle expense.

### **Task Code 18.3 - Mechanical Installation Crew**

This task code is for the labor (e.g., operator, foreman, laborer) required to conduct the actual trenching and installation of underground piping and equipment area/enclosure for remediation systems. Backfill material costs should be coded under Task Code 18.4. Equipment should be coded to Task Code 28 without operator. The equipment, operator and/or laborer costs should be clearly distinguished on the invoice. All consultant charges (subcontractors included) must be supported with backup. Backup for subcontractor invoices must include equipment rates, equipment hours, labor rates, labor hours, and itemized materials breakdown. Evidence in the form of lab data for soil samples collected from the excavated area must be provided to document excavation to remove soils impacted by petroleum release.

Items covered under this task code include:

- Labor to conduct the actual trenching and installation of underground piping and equipment area/enclosure for remediation systems;
- Field preparation, mobilization and breakdown;
- Travel time; and
- Site restoration activities.

Items not covered under this task include:

- Materials (see Task Code 18.4); and
- Excavation equipment and vehicles (see Task Code 28).

### **Task Code 18.4 - Remediation System Materials**

This task code shall be used for costs associated with the purchase of the remediation system materials. All material charges must be supported with an itemized materials breakdown.

The materials include but are not limited to:

- Pipe;
- Fittings and adapters;
- Glue and primer;
- Manholes, vaults;
- Backfill material;
- Asphalt, concrete, and cement; and
- Valves, gauges, etc.

Items not covered under this task include:

- Sheds (see Task Code 18.5);
- Equipment pads (see Task Code 18.5); and
- Fencing (see Task Code 18.5).

**[Task Code 19 intentionally removed]**



#### **4.18 TASK CODE 20 – INSTALLATION OF UTILITIES FOR REMEDIATION SYSTEMS ONLY (TASK CODES 20.1 THROUGH 20.4)**

These task codes are associated with remediation costs incurred by utility companies' installation of their utility services to the site. All utility connections for remediation equipment must be metered separately from other site utility connections to be eligible for reimbursement.

##### **Task Code 20.1 – Coordination of Utility Services for Remediation Systems**

This task code shall be used when coordinating for a utility company to install their utility on site.

Items covered under this task code include:

- Coordination and communication with utility company to install utility.

Items not covered under this task code include:

- Site visit to meet utility company to install utility (see Task Code 4.2).

##### **Task Code 20.2 – Utility Company Installation Cost**

This task code shall be used for the costs charged by the utility to install the service from the street to the utility meter. Federal, state or local governmental fees are not reimbursable.

##### **Task Code 20.3 - Electrical Installation Crew**

This task code is only for labor costs (task maximum based on two individuals, number of people on site may vary) and shall be used when an electrical installation crew installs and completes the electrical service and the remedial system component wiring for powering, operating, and controlling the system. Materials inclusive of electrical conduit, wire, panel boxes are to go under Task Code 20.4. Backup for electrical subcontractor labor costs consists of labor hours and labor rates.

Items covered under this task code include:

- Coordination and labor to install the remedial system component wiring to power the system and electrical controls and safety interlocks;
- Field preparation and breakdown; and
- Travel time and vehicle charges.

##### **Task Code 20.4 - Remediation System Electrical Materials**

This task code shall be used for costs associated with the purchase of the remediation system electrical materials. All material charges must be supported with an itemized materials breakdown.

The materials include but are not limited to:

- Pipe;
- Fittings and adapters;
- Glue and primer;
- Wires;
- Panels;
- Sockets; and

- Breakers.

**[Task Code 21 intentionally removed]**

**4.19 TASK CODE 22 – PURCHASE AND INSTALLATION OF REMEDIATION SYSTEMS (I.E., GROUNDWATER AND NAPL, SOIL VAPOR EXTRACTION AND AIR SPARGING)**

These task codes shall be used when performing the purchase, installation or reinstallation of groundwater, non-aqueous phase liquid pumping, soil vapor extraction and air sparging remediation systems. All charges (subcontractors included) must be supported with time and materials backup (date of service, labor hours and labor rates, itemized equipment and materials breakdown). Charges may be submitted as a bid, refer to Task Code 16.2.

**Task Code 22.1 – Removal and reinstallation of remediation systems from original site of installation to another site, or refurbishment of equipment**

This task code shall be used for relocating a remediation system from one site to another. Costs allowed are a site maximum and include all costs associated with the removal and reinstallation, including labor, equipment, materials, and travel. All associated costs should be claimed under the receiving facilities UST Eligible Release Number. Refurbishment of existing equipment also allowed under this task code.

**Task Code 22.2 – Remove and/or store remediation equipment**

This task code shall be used for removing remediation system equipment and temporary storage (e.g., winterization, system shut down). Costs allowed are a site maximum and include all costs associated with the removal and/or storage of remediation system equipment, including labor, equipment, materials, tools, travel time, and vehicle expenses.

**Task Code 22.3 – Installation Crew**

This task code shall be used for the labor (task maximum based on two individuals, number of people on site may vary) to install remediation system equipment associated with Task Code 22.4. This task code includes labor, equipment, materials, tools, travel time, and vehicle expenses.

**Task Code 22.4 – Remediation System Equipment Purchase**

This task code shall be used for the initial purchase of remediation system equipment/components. For Task Code 22.4, a minimum of three competitive bids must be obtained (not just solicited) for all individual components with a value greater than \$5,000 or if the total system value exceeds \$25,000. Labor to install the system at the site shall be claimed under Task Code 22.3.

The value of a component or system is defined as the purchase price from a published catalog or standard rate sheet and is assumed to include the labor required to manufacture the component or system.

For Claimant's contractors or consultants that choose to assemble the system components and build-out the treatment system, the total system value shall include the labor costs for design, procurement, and assembly. In this case, the labor costs shall not exceed 20 percent of the

purchase price of the component(s). For example, if a consultant chooses to purchase the components for a groundwater extraction/carbon treatment system and the purchase price of all the components and miscellaneous material fittings, wiring, etc. cost \$15,000, the maximum labor costs allowed for design, procurement, and assembly would be \$3,000. Similarly, if the purchase price of the components, miscellaneous materials, and allowed labor costs exceed \$25,000, three bids are required. System costs over \$25,000 will only be allowed if they were competitively bid.

#### **4.20 TASK CODE 23 – REMEDIATION SYSTEMS OPERATION & MAINTENANCE (TASK CODES 23.1 THROUGH 23.7)**

These task codes shall be used when performing operation and maintenance (O&M) of remediation systems, system repair, carbon regeneration, carbon disposal, and liquid, solid, and mixed media disposal, as well as for the costs incurred for utility charges and carbon purchase. All charges (subcontractors included) must be supported with time and materials backup (date of service, labor hours and labor rates, itemized equipment and materials breakdown).

##### **Task Codes 23.1.1 and 23.1.2 - General O&M of Remedial Systems**

These task codes shall be used when performing general O&M of remedial systems. Task Code 23.1.1 is used when greater than 6 hours (including travel time) is applied to these activities. Task Code 23.1.2 is used when 6.0 hours or less (including travel time) is applied to these activities. Project management time is not considered in the determination of the half or full day rate, but is included in the rate maximum.

Items covered under this task code include:

- Coordination of general O&M of remedial systems;
- Subcontractor coordination;
- Labor to obtain operational measurements of systems, collect vapor and liquid samples, and routine system component maintenance;
- Labor to remove and replace activated carbon (in bulk or drums) for treatment system components;
- Field preparation;
- Travel and vehicle expenses;
- Sample preparation, logging, storage transportation of samples to laboratory; and
- Equipment and materials (e.g., PID/FID, pitot tube/rotameter, hand pump, sample jars, sampling incidentals, field screening of samples).

In addition, the following task codes shall be used as appropriate:

- Task Code 11, Groundwater Monitoring, Gauging, Sampling.
- Task Code 23.5.1, Carbon Purchase.
- Task Code 23.5.2 Carbon Disposal.

Items not covered under this task code include:

- Carbon Purchase/Disposal (see Task Code 23.5.1).
- Contaminated waste removal and disposal (see Task Code 23.6).

### **Task Code 23.1.3 – Extra Person**

This task code should be used when an additional person is required to accomplish labor intensive tasks. This task code can only be claimed for the hours actually utilized for the labor-intensive task. Remaining time for the extra person should be rolled into the half day or full day rate claimed by the primary technician. Back-up/field notes should clearly detail the labor-intensive task being completed. Travel time for the extra person should be included under Task Code 23.1.3.

### **Task Code 23.1.4 - Non-Incidental O&M Materials**

This task code shall be used for the purchase of non-incidental materials used during O&M activities. The materials include but are not limited to:

- Filter elements (e.g., particulate, cartridges, bags);
- Oil;
- Sequestering agents; and
- Chemical additives.

The materials not included in this task code include:

- Carbon Purchase (see Task Code 23.5.1).

### **Task Code 23.3 – Remediation System Repair**

This task code is associated with repair or replacement of system components (e.g., pumps, blowers, motors, compressors, flow meters, etc.) including miscellaneous fittings, adapters, wiring, freight/shipping, and labor to remove/install the component. Repair of rented or leased equipment is not eligible. Back-up/field notes must clearly detail the necessity of the repair or replacement of the component and also include the manufacturer's recommendation or other supporting documentation supporting component replacement rather than repair (e.g., cost analysis, diagnostic report, phone logs, etc.). Three competitive bids are required for any component that exceeds \$5,000 in value.

Other items covered under this task code include:

- Coordination of repair of the remedial system component;
- Subcontractor coordination and costs;
- Field preparation;
- Travel and vehicle expenses; and
- Testing equipment and tools.

### **Task Codes 23.4 to 23.4.2.2 - Air Stripper Maintenance**

These task codes are used for the purchase and disposal of packing material for high profile air strippers and for the purchase and disposal of an acid wash for a low-profile air stripper. Labor to conduct these activities should be coded to the 23.1 task codes.

### **Task Codes 23.5. – Replacement Carbon/Carbon Vessels (<200 lbs) Purchase**

These task codes are used for the purchase of replacement activated, or reactivated carbon in bulk, or the purchase of carbon containing vessels of less than 200 lbs. Initial carbon purchase should be coded to Task Code 22.4. Field notes must be provided to support the use of carbon/carbon vessels claimed.

Labor costs for activated carbon or carbon vessel (<200lbs) replacement should be coded to Task Code 23.1.1 or 23.1.2. If subcontractor labor is used for activated carbon or carbon vessel (<200lbs) replacement, then the subcontractor's invoice should adequately support labor, DOS, equipment, etc.

#### **Task Codes 23.6 to 23.6.6.1 – Contaminated Waste Removal and Disposal**

These task codes are used for the removal and disposal of contaminated waste. This includes labor, equipment, transportation and disposal. Labor to conduct these activities should not be coded to the 23.1 task codes.

#### **23.7 Piping and Instrumentation Drawing**

The Piping and Instrumentation Drawing (P&ID) can be claimed once for each system used on the site. The P&ID is expected to be submitted with a report, typically an IRA or Phase IV report.

#### **4.21 TASK CODE 24 – WELL PAD/ROAD BOX/MANHOLE REMOVAL/REPLACEMENT AND REPAIR (TASK CODES 24.1 THROUGH 24.1.5)**

These task codes shall be used when performing repair, removal, and replacement of concrete pads, road boxes or manholes (DEP WSC 310-91). The repair of roadboxes or replacement of well parts (well plugs, well covers with O-rings) must be performed with another field event (e.g., pad replacement, sampling event or O&M event, etc.). All charges (subcontractors included) must be supported with time and materials backup (date of service, labor hours and labor rates, itemized equipment and materials breakdown). An explanation for the need to repair, remove, or replace pads, road boxes or manholes is required.

#### **Task Code 24.1 through 24.1.3 - Remove and Replace Concrete Pad and/or Road box/Manhole**

Items covered under these task codes include:

- Coordination and labor to conduct repair/removal/replacement of concrete pads/road boxes/manholes;
- Field preparation;
- Equipment mobilization/demobilization;
- Travel and vehicle expenses;
- Equipment set-up and breakdown; and
- Equipment and associated costs (e.g., jackhammer, compressors, concrete, cement).

#### **Task Code 24.1.6 - Equipment Mobilization/Demobilization for Repair**

This task code shall be used to mobilize and demobilize equipment used for the removal and replacement of concrete well pads, road boxes, and manholes.

Items covered under this task code include:

- Equipment mobilization/demobilization;
- Equipment set-up and breakdown; and
- Equipment travel.

#### **4.22 TASK CODE 25 – WELL ABANDONMENT (TASK CODES 25.1 THROUGH 25.5)**

These task codes shall be used when performing well abandonment activities per DEP WSC 310-91, as amended or superseded. All charges (subcontractors included) must be supported with time and materials backup (date of service, labor hours and labor rates, itemized equipment and materials breakdown).

##### **Task Code 25.1.1 and 25.1.2 - Equipment Mobilization/Demobilization for Well Abandonment**

These task codes shall be used to mobilize and demobilize well abandonment equipment.

Items covered under this task code include:

- Equipment mobilization/demobilization; and
- Equipment set-up and breakdown.

##### **Task Code 25.2 – Well Abandonment Oversight**

This task code shall be used when performing well abandonment oversight activities. Task Code 25.2.1 is used when greater than 6 hours (including travel time) is applied to the oversight of the well abandonment event. Task Code 25.2.2 is used when 6 hours or less (including travel time) is applied to the oversight of the abandonment event.

Items covered under this task code include:

- Labor to oversee and document abandonment event;
- Field preparation and breakdown;
- Travel time and vehicle expenses; and
- On site coordination.

##### **Task Code 25.3 and 25.4 - Well Abandonment**

These task codes shall be used when performing well abandonment by pressure grouting or drill and grout. Supporting documentation should include field notes and total depth of each well abandoned as measured for the abandonment event.

Items covered under this task code include:

- Labor to conduct well abandonment;
- Field preparation;
- Clean up;
- Equipment; and
- Material costs (e.g., concrete, cement).

##### **Task Code 25.5 – DEP Well Abandonment Report**

This task code shall be used for preparing the Well Abandonment Report by the Massachusetts licensed driller as required by the Massachusetts Department of Environmental Protection. A complete copy of the report must be viewable online or submitted as backup.

#### **4.23            TASK CODE 26 – MASSDEP REQUIRED MEETINGS AND TRAVEL (TASK CODES 26.1 THROUGH 26.2)**

These task codes shall be used when performing activities associated with MassDEP requests or meetings/ site visits. Documentation (e.g., Notice of Audit Findings, field notes, phone logs) to verify that the request/meeting took place is required to support charges claimed. Charges to gather information and respond to the MassDEP requests shall be supported by communications with MassDEP (e.g., letters, phone logs or e-mails) or Audit Follow-up Reports. If an audit results in a Notice of Noncompliance, the Notice shall be provided and approvals will be granted on a case by case basis.

Items covered under these task codes include:

- Labor to communicate, coordinate, and attend MassDEP requested meeting;
- Travel and vehicle expenses;
- Labor to gather and prepare information as requested by the MassDEP; and
- Labor to prepare necessary Audit Follow-up Reports.

Supporting documentation includes:

- Correspondence (emails, telephone logs, letters, etc.) from MassDEP requesting that the Consultant be present at a Site Meeting.

#### **Task Code 26.2 Licensed Site Professional (LSP) Site Visit**

This task code is used for the LSP-of-Record to perform site visit activities as required per 310 CMR 40.0000. One annual visit is anticipated, more frequent visits require explanation. Task maximum includes any required coordination, performed by the LSP. Supporting documentation (field notes, etc.) is required.

#### **4.24            TASK CODE 27 – LABORATORY ANALYSES (TASK CODES 27.1 THROUGH 27.10.3)**

These task codes are used for the laboratory analyses of water, soil, and air and include parameters related to the assessment, evaluation, and abatement of petroleum products discharges and releases from an underground storage tank system. All analytical methods must be the most current EPA-approved methods and/or in accordance with the most recent version of MassDEP's *Compendium of Quality Control Requirements and Performance Standards for Selected Analytical Protocols (the "CAM")*. The laboratory analyses include general chemistries, microbiology (i.e., bioremediation parameters), metals & minerals, gas chromatography, waste characterization, drinking water organics, and lab add-ons (e.g., groundwater sample filtration and sample compositing). The laboratory invoice, chain of custody, and analytical data is required to support the charges claimed. If there is no applicable task code for the analyte, laboratory rate sheets may be provided from three laboratories in lieu of specific bid documents. It is necessary for the claimant to submit the applicable rate sheets with each subsequent submittal.

Standard laboratory turnaround times of 7-10 business days apply to all laboratory analyses and prices. Surcharges for expedited laboratory turnaround are not eligible for reimbursement by the

Board. Includes sample containers, chain of custody forms, drop-off and pick-up of sample containers, sample disposal costs, and all other sample-related surcharges and fees. Sample shipping costs should be coded to the applicable 11.1 task codes.

### **Task Code 27.4.27 – DEP EPH**

To be reimbursable, costs must be related to eligible Petroleum Products that include gasoline and diesel fuel. Eligible Petroleum Products, however, do not include many other types of petroleum products typically found at dispensing facilities, such as heating oil, lubricating oil, and waste oil. When conducting site characterization or response actions, it is important to note that the 21J program will only reimburse costs that are directly related to the eligible Release, and not necessarily all costs required to meet the requirements of the MCP.

When conducting an investigation or response action at a site with spilled gasoline and/or diesel products, the costs associated with EPH sampling and analyses will be reimbursable in the following cases:

#### **1. Eligible Diesel Fuel Release:**

- a. Costs associated with EPH analyses are reimbursable for samples collected during site characterization, response actions, and for ongoing site monitoring activities conducted in response to an eligible release of diesel fuel.

#### **2. Eligible Gasoline Release:**

- a. Facility with known current or historical diesel fuel storage: Costs associated with EPH analyses are reimbursable for the first round of site characterization samples collected as follows: i. if the initial EPH analytical results indicate reportable concentrations of diesel-range petroleum hydrocarbons, then future costs associated with EPH analyses will be reimbursable if the source is an eligible Petroleum Product.
- b. Facility with no recorded history of storing diesel fuel or diesel releases: Since historical UST records are not always accurate or complete, the costs associated with EPH analyses are reimbursable for initial sampling. If reportable concentrations of diesel-range petroleum hydrocarbons are detected and the source is not identified, then the costs for future or additional EPH analyses will not be reimbursable until the source of the release is identified and determined to be eligible.
- c. Facility has a MCP Groundwater Category of GW-1: There may be constituents of gasoline that are not target analytes in the VPH analysis, but can be detected using the EPH analytical method (e.g., 2-methylnaphthalene). Some of these analytes may become an important contaminant of concern and risk driver when evaluating human health risks associated with the Release. For facilities where groundwater is classified as GW-1, EPH and/or EPA Method 8270 SIM analyses will be reimbursable.

As noted above, EPH analyses may be required to assess other releases or sources such as historic heating oil or waste oil that are not eligible for reimbursement under M.G.L. c.21J. You are strongly encouraged to review 503 CMR 2.00 to become familiar with the eligibility requirements for reimbursable costs.



#### **4.25 TASK CODE 28 – EQUIPMENT RENTAL (CODES 28.1 THROUGH 28.27)**

These task codes shall be used when renting construction vehicles, equipment, systems, and components during response activities. Rental rate limits are set for hourly, daily, weekly, and monthly time periods. The type of rental and rental period determine the proper task code. Except for Task Code 28.18.4, the rental rates are for equipment only and do not include labor costs. Refer to Task Code 1.0 for labor rates for equipment operator, laborer and truck driver. Laborer is only allowed when needed to support heavy equipment operation. Remediation systems and/or components may be rented for up to six months before a lease versus purchase analysis must be performed. Refer to Task Code 16.1 for additional guidance.

##### **Task Code 28.18.4.1 and 28.18.4.2 Vactor Solids Excavator with Operator and Trailer Mounted Air Excavator**

These task codes shall be used when performing air-knifing activities for pre-clearing soil boring or vacuum excavation for response activities. These task codes include labor and travel time. Field notes and/or drill logs to support logged soil types or collected samples are required.

##### **Task Code 28.18.4.3 - Enhanced Fluid Recovery (EFR)**

This task code shall be used when performing Enhanced Fluid Recovery (EFR) activities. EFR is defined as total fluids extraction, i.e., extraction of soil vapor gas, groundwater and non-aqueous phase liquid (NAPL), or some combination of the three. EFR consists of applying vacuum, generally greater than 15 inches of mercury, to a wellhead to enhance the flow and recovery of petroleum fluids from a well(s) so that they can be removed and recovered from the subsurface. It is generally appropriate for NAPL recovery from small isolated contaminated areas. Labor, equipment, and materials for gauging and/or sampling of wells not receiving injections or extractions or are to be reimbursed as Task Code 11.1.2 through 11.5, (labor and equipment for travel on the same day as an EFR event are to be reimbursed under Task Code 28.18.4.3). Expenses incurred to perform EFR remediation may be claimed for multiple events in a month. The task maximum is per event.

Items covered under this task code include:

- Coordination and labor to plan, coordinate and conduct all the EFR activities; both subcontractor and consultant (gauging of extraction wells included);
- Travel time and vehicle expenses;
- Labor, equipment, and materials to gauge and/or sample wells receiving injections on the day of injection or being extracted on the day of extraction;
- Equipment (e.g., all trucks, blowers, pumps, treatment devices, etc.); and
- Materials (e.g., PIDs, LEL meters, multi-meters, etc.).

##### **Number of EFR Events Allowed**

- 1) If EFR is implemented and is not part of an IRA, RAM, or Phase IV, there is a lifetime site maximum of two events.
- 2) When EFR remediation has been implemented as part of a Phase IV Remedy Implementation Plan, the number of EFR events is unlimited. The Phase III Remedial

Action Plan shall document the appropriateness and cost benefit of EFR in accordance with 310 CMR 40.0850 and 40.0860 when compared to other available technologies. Costs associated with such evaluations shall be reimbursed as Task Code 2.4, Phase III, and Task Code 2.7.4, Feasibility of Permanent Solutions/ Feasibility of Restoration to Background; OR

- 3) When EFR is implemented as part of an IRA or RAM (i.e., prior to or not part of the Phase IV), the number of EFR events is limited to the task maximum of two events per month, for up to a total of six months. After six months of EFR events have been conducted, a cost benefit analysis using data from the completed events shall be prepared and submitted with the reimbursement application to determine if EFR should be continued or if an alternative petroleum remediation technique should be employed. Charges for the cost benefit analysis shall be claimed under Task Code 15; OR
- 4) If EFR is added as a remedial technology after the Phase IV RIP Completion Statement has been submitted or during implementation of the Phase V and/or OM&M Plan, without the benefit of a revised Phase III/IV, the number of EFR events is limited to the task maximum of two events per month, for up to a total of six months. The claimant may then seek pre-approval from the Board to continue EFR events. In this case, a cost benefit analysis supporting the proposed use of EFR to shorten the remediation timeframe using data from the completed events shall be prepared and submitted to the Board for review.

#### **SUMMARY OF ALLOWABLE EFR EVENTS**

<b>CONDITION</b>	<b># of EFR EVENTS ALLOWED</b>
1. EFR performed as a general response action not specified in an IRA, RAM or Phase IV RIP	2 events lifetime max
2. EFR is included in Phase IV	Unlimited with a Max. of 2 events per month
3. EFR is included in an IRA or RAM	6 months with a Max. of 2 events per month
4. RIP enhancement per Phase V-OM&M revision	6 months with a Max. of 2 events per month – May seek pre-approval from the Board for future events

#### **Task Code 28.18.6 and 28.18.7 - Mobile Groundwater Treatment Trailers**

These task codes shall be used when renting a mobile groundwater treatment trailer. There are two different types of mobile groundwater treatment trailers. Both consist of an oil/water separator, liquid phase granular activated carbon vessels (up to 50 gallons per minute), transfer pump, heater and electrical controls. The second mobile groundwater treatment trailer (Task Code 28.18.7) has the added feature of a soil vapor extraction module for 100 cubic feet per minute flow rate (with vapor phase granular activated carbon vessels). The specifications of the system components are required to support the charges claimed.

**4.26                    TASK CODE 29 – MISCELLANEOUS MATERIALS (TASK CODES 29.1 THROUGH 29.11)**

These task codes should be used for the reimbursement of miscellaneous materials used for the completion of Response Actions when not included under other applicable task codes. All charges (subcontractors included) must be supported with time and materials backup (date of service, itemized equipment and materials breakdown).

**4.27                    TASK CODE 30 – STATE SALES TAX**

**Task Code 30.1- State Sales Tax**

This task code may be used when a sales tax listed on any invoice, receipt, or utility bill as a separate line item is claimed. The sales tax shall be reimbursed at actual cost. Sales tax on ineligible equipment and materials charges (other than exceeding a task code maximum) is not reimbursable.

**4.28                    TASK CODE 31 - FREIGHT**

**Task Code 31.1 – Freight/Delivery**

This task code may be used when a freight/delivery charge listed on any invoice or receipt as a separate line item is claimed. The freight charge shall be reimbursed at actual cost. Note that the freight/delivery charge shall only be claimed if the associated equipment/components/materials are also claimed.

## 5.0

## ACRONYMS

=>	Implies
>	Greater than
<	Less than
21J	Underground Storage Tank Petroleum Product Cleanup Fund, MGL c. 21J
APH	Air Petroleum Hydrocarbons
API	American Petroleum Institute
AS	Air Sparging
ASTM	American Society of Testing Materials
AUL	Activity and Use Limitation
BOARD	Underground Storage Tank Petroleum Cleanup Fund Administrative Review Board
BOH	Board of Health
BTEX	Benzene, Toluene, Toluene, Ethyl Benzene and Xylenes
CFM	Cubic Feet per Minute
CMO	Chief Municipal Officer
CMR	Code of Massachusetts Regulations
CU/YD	Cubic Yard
DPS	Downgradient Property Status
EFR	Enhanced Fluids Recovery i.e., groundwater/NAPL and soil vapor gas
EPA	(U.S.) Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
GC/FID	Gas Chromatography Flame Ionization Detector
GC/MS	Gas Chromatography Mass Spectrophotometry
GPM	Gallons per Minute
GW-1	Groundwater Category for Current or Potential Drinking Water Source
GW-2	Groundwater Category - Source of Volatiles to Indoor Air
GW-3	Groundwater Category - Everywhere else
Hg	Mercury
HR	Hour
IH	Imminent Hazard
ISCO	In Situ Chemical Oxidation
IWPA	Interim Wellhead Protection Area
LB	Pound
LEL	Lower Explosive Limit
LF	Linear Feet
LNAPL	Light Non-Aqueous Phase Liquid
LS	Lump Sum
LSP	Licensed Site Professional
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
MGL	Massachusetts General Law
MTBE	Methyl Tertiary Butyl Ether
NAPL	Non-Aqueous Phase Liquid
NFPA	National Fire Protection Association
NON	Notice of Noncompliance

NOR	Notice of Responsibility
NTE	Not to Exceed
O&M	Operation and Maintenance
OSHA	(U.S.) Office of Occupational and Health Administration
P&ID	Piping and Instrumentation Diagram
PE	Registered Professional Engineer
PID	Photoionization Detector
PIP	Public Involvement Plan
PRP	Potentially Responsible Party
RAM	Release Abatement Measure
RCRA	Resource Conservation and Recovery Act
REDUA	Representativeness Evaluations and Data Usability Assessment
RFI	Request for Information
SF	Square Feet
SHE	Substantial Hazard Evaluation
SVE	Soil Vapor Extraction
T&M	Time and Material
TPH	Total Petroleum Hydrocarbon
UOM	Unit of Measure
UST	Underground Storage Tank
VES	Vapor Extraction System
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

## 6.0 REFERENCES

Provided below is a list of references which provide statutes, regulations, policies, national codes, guidelines, industry standards, and recognized references which shall be followed when applicable at the time, while conducting response, assessment, remediation, and response action outcome activities for which reimbursement of such activities will be sought under the Underground Storage Tank Petroleum Product Cleanup Fund, 503 CMR 2.00. This list of references is provided as a minimum and is not intended to be all inclusive. All regulations or policies referenced are to be superseded by the most recent applicable version available.

1. The Massachusetts Oil and Hazardous Materials Release Prevention and Response Act, M.G.L. 21E
2. M.G.L. c. 21A, & 16 and 19-19J, M.G.L. c. 30A, & 2 and 3
3. Board of Registration of Hazardous Waste Site Professionals, 309 CMR 1.00 - 8.00
4. Board of Registration of Professional Engineers and Land Surveyors, 250 CMR 1.00 - 6.00
5. Massachusetts Environmental Policy Act, 301 CMR 11.00; and areas of critical concern, 301 CMR 12.00
6. Commonwealth of Massachusetts Department of Public Works, Application for Permit to Access State Highway
7. Department of Environmental Protection Regulations & Policies:

8. The Massachusetts Contingency Plan, 310 CMR 40.000 and 40.0000
9. The Massachusetts Hazardous Waste Regulations, 310 CMR 30.000
10. Massachusetts Drinking Water Quality Standards, 310 CMR 22.00
11. Wetlands Protection Act Regulations, 310 CMR 10.00
12. The Massachusetts Underground Storage Tank Regulations 310 CMR 80.00
13. MA Discharge Regulations, 314 CMR 7.00
14. 21E Related Revisions to 310 CMR 4.00, Timely Action Schedule and Fee Revisions, MassDEP, July 30, 1993
15. Massachusetts Air Quality Standards, 310 CMR 6.00
16. Massachusetts Surface Water Quality Standards, 314 CMR 4.00
17. Bureau of Waste Prevention (BWP) BRP WP 42, Groundwater Reclamation Projects Permit
18. Policy for Discharges to Groundwater in Support of Remedial Actions Conducted in Accordance with M.G.L. c. 21E, MassDEP #Policy-91-001
19. Interim Guidance Manual for Petroleum Contaminated Media, July 1992
20. Construction/Excavation Related to Underground Storage Tanks at Motor Vehicle Fueling Facilities, MassDEP
21. Policy #WSC-132-90
22. Management Procedures for Excavated Soils Contaminated with Virgin Petroleum Oils, MassDEP Policy
23. #WSC-89-001
24. DRAFT Addendum to Management Procedures for Excavated Soils Contaminated with Virgin Petroleum
25. Oils, MassDEP Policy #WSC-89-0019. Policy for the Investigation, Assessment, and Remediation of Petroleum
26. Releases, MassDEP Publication #WSC-401-91
27. Fact Sheet for Underground Storage Tanks Storing Waste Oil, 310 CMR 30.325(1)(h) and 527 CMR 9.29
28. Guidance for Disposal Site Risk Characterization - In Support of the Massachusetts Contingency Plan,
29. DEP, July 28, 1995, Interim Final Policy #WSC/ORS-95-11.
30. Guide to the Regulation of Toxic Chemicals in Massachusetts Waters, MassDEP, December 1990
31. Public Involvement Plan Interim Guidance For Waiver Sites, MassDEP, January 1991, Interim Policy #
32. WSC-800-90
33. Minimum Standards for Analytical Data for Remedial Response Actions Under M.G.L.c.21E, MassDEP, January
34. 19, 1989, Policy #WSC-300-89
35. Making No Further Action Decisions at Waiver Sites, MassDEP Policy # WSC-120-90
36. Suggested Outline, Content and Format for Phase II Human Health Risk Assessment Scope of Work, MassDEP Policy # WSC-140-91
37. Risk Assessment Short Form - Residential Scenario, MassDEP Policy # WSC/ORS-142-92

38. Minimum Standards for Analytical Data for Remedial Response Actions Under M.G.L. c. 21E, MassDEP Policy # WSC-300-89
39. Background Documentation for the Development of the MCP Numerical Standards, MassDEP, April 1994
40. MASSACHUSETTS Solid Waste Management Regulations, 310 CMR 19.000
41. Previously Non-participating and Newly Identified PRPs Who Wish to Assume Responsibility for Response Actions, MassDEP Policy # WSC-601-90
42. MCP Questions and Answers, Volume 1, Number 1, MassDEP, November 5, 1993
43. MCP Questions and Answers, Volume 1, Number 2, MassDEP, December 1993/January 1994
44. MCP Questions and Answers, Volume 1, Number 3, MassDEP, February/March 1994
45. MCP Questions and Answers, Volume 1, Number 4, MassDEP, April/May 1994
46. MCP Questions and Answers, Special Edition No. 1, May 1994
47. MCP Questions and Answers, Volume 1, Number 5, MassDEP June/July 1994
48. MCP Questions and Answers, Special Edition No. 2, June 1994
49. MCP Questions and Answers, Special Edition No. 3, September 1994
50. MCP Questions and Answers, Special Edition No. 4, February 1995
51. MCP Questions and Answers, Volume 2, Number 1, MassDEP July 1995
52. MCP Questions and Answers, Volume 3, Number 1, June 1996
53. MCP Questions and Answers, Volume 3, Number 2, December 1996
54. MCP Questions and Answers, Master Q&A, March 25, 1999
55. MCP Questions and Answers, Volume 7, Number 1, January 2001
56. Underground Storage Tank Closure Assessment Manual, MassDEP Policy #WSC-402-96, April 9, 1996.
57. Standard Reference for Monitoring wells, MassDEP Publication #WSC-310-91
58. Water Supply Protection Overlays, MA MassDEP
59. DRAFT Remedial Action Design Document RADD-0: Project Description/Cover Sheet
60. DRAFT Remedial Action Design Document RADD-1: Packed-Tower Air Stripper
61. DRAFT Remedial Action Design Document RADD-2: Aqueous Phase Granular Activated Carbon Adsorption
62. Off-Gas Treatment of Point Source Remedial Air Emissions Pursuant to MGL c.21E, MassDEP Policy #WSC-94-150
63. Certification and Operation of Environmental Analysis Laboratories, 310 CMR 42.00
64. Preservation Techniques for Volatile Organic Compound(VOC) Soil Sample Analyses, MassDEP Policy WSC #99-415
65. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), January 1998 and subsequent revisions.
66. Characterizing Risks posed by Petroleum Contaminated Sites: Implementation of the MassDEP VPY/EPH
67. Approach, Final Draft, June 2001, and subsequent final policy and revisions.
68. Feasibility of Approaching Background, Pre-Final Draft, June 20, 1997, and subsequent Final policy and revisions.
69. Guidance on Implementing Activity and Use Limitations, Draft dated January 22, 1998, and subsequent final policy and revisions.

70. Interim Remediation Waste Management Policy for Petroleum Contaminated Soils, MassDEP Policy #WSC-94- 400.
71. Guidance from Differentiating Disposal Sites from Spills, MassDEP Policy #WSC-89-002.
72. Short Term Measures Policy, MassDEP Policy #WSC-130-90
73. Interim Measures Policy, MassDEP Policy #WSC-131-90
74. Previously Non-participating and Newly Identified Parties Potentially Responsible #WSC-601-90.
75. Guidance on Implementing Activity and Use Limitations, Draft dated January 22, 1998 and subsequent final policy and revisions.
76. Construction of Buildings in Contaminated Areas, January 2000, MassDEP Policy #WSCO-00-425
77. Draft Indoor Air sampling and Evaluation Guide, February 1, 2001.
78. Federal Statutes, Regulations, Policies & Publications:
79. Short Term methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organism, US EPA, EPA-600/4-89-001
80. "US EPA Region 1 Biomonitoring Protocol", US EPA Region 1, Boston, MA Letter dated July 1, 1990
81. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, latest edition,
82. US EPA, EPA-600/4-90/027
83. Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 40 CFR 300-399
84. Resource Conservation and Recovery Act, 40 CFR 190-299
85. Toxic Substances Control Act, 40 CFR 700-END
86. Clean Water Act, 40 CFR 100-149 and 40 CFR 400-699
87. Superfund Amendments and Reauthorization Act, 40 CFR 300-399
88. Clean Air Act, 40 CFR 1-89
89. Test Methods for Evaluating Solid Waste, EPA Publication SW-846, Latest Edition
90. National Pollutant Discharge Elimination System, 40 CFR Part 110
91. Spill Prevention Control & Countermeasure Plans, 40 CFR Part 112
92. USGS Bedrock Geologic Map of Massachusetts, Department of the Interior, U.S. Geological Survey
93. Society in cooperation with the Commonwealth of Massachusetts, E-an Zen, Editor, 1983
94. USGS Topographic Map, Appropriate Quadrangle(s)
95. National Climatic Data Center, Local Climatological Data, Annual Summary and Comparative Data, Asheville, NC, 1992
96. "Element Concentrations in Soil and Other Surficial Materials of the Conterminous United States", U.S.
97. Geological Survey Professional Paper 1270, U.S. Government Printing Office, Washington, D.C., 1984
98. Time Lag and Soil Permeability in Groundwater Observations, Hvorslev, M.J., U.S. Army Corps of Engineers, Waterways Experimental Station Bulletin 36, Vicksburg, MS
99. Superfund Public Health Evaluation Manual, USEPA, EPA 540/1-86/060, 1986



100. Drinking Water and Health, NRC, Volume 9, National Academy Press, 1989
101. US EPA Region 1 Biomonitoring Protocol Letter dated July 1, 1990. US EPA Region 1 Offices, Boston, Massachusetts, US EPA, 1990.
102. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, US EPA. 1991, Fourth Edition. EPA-600/4-90/027
103. OSHA Safety and Health Standards, 29 CFR 1926/1919, Latest Edition
104. Standard Methods for Examination of Water and Wastewater, APHA. 1989, 17th Edition. Washington D.C.
105. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms, EPA-600/4-89/001
106. How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites, EPA 510-B-95-007 National Recognized Codes & Standards:
107. Flammable and Combustible Liquids Code, ANSI/NFPA, Latest Edition
108. Automotive and Marine Services Station Code, ANSI/NFPA Code 30A, Latest Edition
109. Flammable and Combustible Liquids Code Handbook, NFPA, Latest Edition
110. National Electrical Code, NFPA 70, Latest Edition
111. Handling Underground Releases of Flammable and Combustible Liquids, NFPA 329, Latest Edition
112. Recommended Practices for Installation of Underground Liquid Storage Systems, Petroleum Equipment Institute, Publication No. PEI/RP100-87
113. Specifications for Concrete Aggregates, ASTM Standard C33-85, Latest Edition
114. American Petroleum Institute Publications:
115. Installation of Underground Storage Systems, API Recommended Practice 1615, Latest Edition
116. Removal and disposal of Used Underground Storage Tanks, API Recommended Practice 1632, Latest Edition
117. Cathodic Protection of Underground Petroleum Storage Tank and Piping Systems, API Publication 2015, Latest Edition
118. Cleaning Petroleum Storage Tanks, API Publication 2015, Latest Edition
119. Management of Underground Petroleum Product Storage Systems at Marketing and Distribution Facilities, API Recommended Practice 1635, Latest Edition
120. Underground Spill Cleanup Manual, API Bulletin 1628, Latest Edition
121. A Guide to the Assessment and Remediation of Underground Petroleum Releases, API Publication 1628, Latest Edition
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133. Groundwater, API Publication 4471, June 1988
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139. User's Manual for Regress: Statistical Evaluation of Asymptotic Limits of Groundwater Remediation, API Publication 4543, April 1992
140. Pump and Treat: The Petroleum Industry Perspective, API Publication 4561, December 1992
141. Detection of Hydrocarbons in Groundwater by Analysis of Shallow Soil/Gas Vapor, API Publication 4394, May 1985
142. Field Evaluation of Well Flushing Procedures, API Publication 4405, June 1985
143. Proceedings: Sampling and Analytical Methods for Determining Petroleum Hydrocarbons in Groundwater and Soil, API Publication DR 214, 1984
144. An Evaluation of Soil Gas and Geophysical Techniques for Detection of Hydrocarbons, API Publication 4509, August 1991
145. Sampling and Analysis of Gasoline Range Organics in Soil, API Publication 4516, October 1991
- General References:
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152. Practical Techniques for Groundwater and Soil Remediation, Nyer, Evan K., Geraghty & Miller Science & Engineering Series, 1992, Lewis Publishers
153. Fate and Prediction of Environmental Chemicals in Soil, Plants, and Aquatic Systems, Mansour, Mohammed, June 1993, Lewis Publishers
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### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
<b>1</b>			<b>LABOR CATEGORIES - Refer to Labor Qualifications and Descriptions</b>		
1.1			Principal	Per Hour	\$0
1.2			Licensed Site Professional/ Licensed Professional Engineer	Per Hour	\$160
1.3			Project Manager	Per Hour	\$135
1.4			Senior Scientist/Senior Engineer/Senior Geologist	Per Hour	\$135
1.5			Staff Scientist/Engineer/Geologist/Hydrogeologist II	Per Hour	\$113
1.6			Scientist/Engineer/Geologist/Hydrogeologist I	Per Hour	\$86
1.7			Permits/Health & Safety Coordinator	Per Hour	\$86
1.8			Construction Foreman	Per Hour	\$97
1.9			Senior Technician/Technician III	Per Hour	\$100
1.10			Technician II	Per Hour	\$75
1.11			Technician I	Per Hour	\$60
1.12			Draftsperson/CADD	Per Hour	\$86
1.14			Administrative Support	Per Hour	\$60
1.15			Heavy Equipment Operator	Per Hour	\$70
1.16			Truck Driver (multi-axle or tractor)	Per Hour	\$70
1.17			Laborer	Per Hour	\$60
<b>2</b>			<b>REPORT PREPARATION</b>		
2.1			Phase I Report per 310 CMR 40.0480 - Project disciplines include labor to conduct site review, background research, state and municipal file review, travel time, travel expenses, environmental database review, review of aerial photography, data evaluation and report preparation. Report to include site maps, groundwater contour map, boring/monitoring well logs, summary tables of analytical data, laboratory sheets with chain of custody, and other requirements as specified in 310 CMR 40.0480. Excludes file review fees.	NTE	\$8,361
	2.1.1		File Review Fees charged by State Agency or Local Municipality	At Cost	<\$201
2.2			Phase II Scope of Work per 310 CMR 40.0834	NTE	\$4,638
2.3			Phase II per 310 CMR 40.0830	NTE	\$15,156
	2.3.1		Phase II Supplemental Addendum	Each	\$4,622
2.4			Phase III per 310 CMR 40.0850	NTE	\$8,228
	2.4.1		Phase III Supplemental Addendum	Each	\$3,525
2.5			Phase IV per 310 CMR 40.0870	NTE	\$9,649
	2.5.1		Phase IV Status Report per 310 CMR 40.0877	Each	\$4,524
	2.5.2		Phase IV As Built Construction Report per 310 CMR 40.0875	Each	\$1,387
	2.5.3		Phase IV Final Inspection Report per 310 CMR 40.0878	Each	\$2,820
	2.5.4		Phase IV Supplemental Addendum Report	Each	\$4,276
2.6			Phase V per 310 CMR 40.0890		
	2.6.1		Phase V Status Report, Remedy Operation Status Report, ROS Opinion, or Phase V Completion Statement per 310 CMR 40.0893 for an Active Remedial System	Each	\$3,912
		2.6.1.1	Phase V Status Report, Remedy Operation Status Report, ROS Opinion, or Phase V Completion Statement per 310 CMR 40.0892 for an Active Remedial Monitoring Program	Each	\$2,676
	2.6.3		Temporary Solution Status Report per 310 CMR 40.0897	Each	\$3,912
2.7			Risk Assessment per 310 CMR 40.0900		
	2.7.1		Method 1 per 310 CMR 40.0973	Each	\$4,362
	2.7.2		Method 2 per 310 CMR 40.0980	Each	\$10,100
	2.7.3		Method 3 per 310 CMR 40.0990	Each	\$20,000
	2.7.4		Feasibility of Permanent Solutions; Feasibility of Restoration to Background per 310 CMR 40.0860 & 40.1020.	Each	\$1,774
	2.7.5		Micro/Macro NAPL Evaluation 310 CMR 40.1003(7)	Each	\$2,000
2.8			Permanent/Temporary Solutions per 310 CMR 40.1000		
	2.8.1		Permanent Solution with No Conditions	NTE	\$5,668
	2.8.3		Permanent Solution with Conditions	NTE	\$5,668
		2.8.3.1	Permanent Solution with Conditions Annual Filing 310 CMR 40.1025(7)	NTE	\$540
	2.8.8		Temporary Solution (Permanent Solution is Not Feasible)	NTE	\$4,622
	2.8.9		Temporary Solution (Permanent Solution is Feasible)	NTE	\$4,622
	2.8.10		LSP 5-Year Periodic Review of Temporary Solution & Opinion per 310 CMR 40.1050(4)(b)	Each	\$2,126
2.10			Complete Tier I/Tier 2 Classification Filing per 310 CMR 40.0500	Each	\$1,000
	2.10.1		Tier I Permit Extension per 310 CMR 40.0560(7)	Each	\$1,941
2.11			Tier I & Tier II Permit Modification	Each	\$1,109
	2.11.1		Tier II Extension Submittal	Each	\$1,664
2.12			Release Abatement Measure Plan per 310 CMR 40.0444	Each	\$2,785
	2.12.1		Release Abatement Measure Plan Addendum per 310 CMR 40.0444	Each	\$1,387
	2.12.2		Release Abatement Measure Status Report per 310 CMR 40.0445	Each	\$3,663
	2.12.3		Release Abatement Measure Plan Completion Report per 310 CMR 40.0446	Each	\$4,403
	2.12.4		Release Abatement Measure Plan Design Specification	Each	\$3,467

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TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
2.13			Immediate Response Action Plan per 310 CMR 40.0424	Each	\$3,363
	2.13.1		Immediate Response Action Plan Addendum per 310 CMR 40.0424	Each	\$1,387
	2.13.2		Immediate Response Action Plan Status Report per 310 CMR 40.0425	Each	\$3,663
	2.13.3		Immediate Response Action Plan Completion Report per 310 CMR 40.0427	Each	\$4,403
	2.13.4		Immediate Response Action Plan Design Specification	Each	\$3,467
	2.13.5		Combined Immediate Response Action Plan and Completion Report per 310 CMR 40.0427	Each	\$6,206
2.14			Imminent Hazard Evaluation per 310 CMR 40.0426	Each	\$4,160
	2.14.1		Substantial Hazard Evaluation per 310 CMR 40.0956	Each	\$4,160
2.15			LSP Opinion to remove off gas controls	Each	\$1,387
2.16			Activity and Use limitations per 310 CMR 40.1000	Each	\$6,298
	2.16.1		Amendment to Activity and Use Limitations per 310 CMR 40.1000	Each	\$2,126
2.17			Legal Fees for Activity and Use Limitations per 310 CMR 40.1000	Each	\$0
2.18			Consultant/Client Project Review Per Year	T&M	\$0
2.19			Public Involvement per 310 CMR 40.1400	T&M	\$27,734
2.20			Police Detail	T&M	\$0
2.21			Prepare Monitoring Well & Boring Logs	Per Log	\$86
2.22			Prepare Remedial Monitoring Form per 310 CMR 40.0000	Each	\$578
2.23			Site Cleanup Status Review		
	2.23.1		Site Cleanup Status Review Report	NTE	\$1,836
	2.23.2		Site Cleanup Status Review Meeting	NTE	\$1,966

<b>3</b>			<b>HEALTH AND SAFETY</b>		
3.1			Prepare a site specific Health and Safety Plan	Each	\$225
3.2			Update Health and Safety Plan	Each	\$150
3.5			Level C Personal Protective Equipment	Per Person / Per Hour	\$17
3.6			Confined Space Entry Equipment	Per Day	At Cost
3.7			Air monitoring for petroleum product derived air contaminants. Project disciplines include labor to conduct air monitoring, field screening and supervision. Includes PID, oxygen/explosion meter, toxic gas monitoring and/or sampling equipment (air pump and calibrator) sample jars or Tedlar bags, sampling incidentals, color metric sampling equipment, sample collection, sample preparation, sample logging, sample storage, transportation of samples to laboratory, subcontractor coordination, field preparation, travel time and vehicle expense.		
	3.7.1		Full Day (greater than 6 hours including travel)	Per Day	\$1,387
	3.7.2		Half Day (up to 6 hours including travel)	Per ½ Day	\$1,040

<b>4</b>			<b>PRE-FIELD AND PROJECT IMPLEMENTATION ACTIVITIES (for site assessment)</b>		
4.1			Pre-field coordination activities. Project disciplines include the scheduling of field activities with personnel conducting field work and any other support operations, e.g. drillers, subcontractors, inspectors, and site owner/operator. Excludes obtaining soil boring/monitoring well permits due to variations in requirements set forth by different state and local agencies. See additional guidance.	Per Field Event	\$555
4.2			Pre-field activity site visit, Dig Safe site and mark all utilities. To include site visit to verify markings, if necessary.	Per Field Event	\$347
4.3			Post-field activity site Visit - See additional guidance	Per Field Event	\$416
4.4			Utility / Buried Equipment Location Survey - (using GPR, magnetometer, etc.). (Oversight costs to be coded to Task Code 9.10).	Per property, not including public roadways	\$3,330

### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
<b>5</b>			<b>OBTAIN PROPERTY ACCESS</b>		
5.1			Obtain property access - Project disciplines to include all labor, material, and documentation required for obtaining right of entry permits. To include contacting the property owner, local and/or state agencies by telephone to coordinate off-site access. Submit a standard access agreement letter and plan depicting proposed locations to the property owner, local and/or state agency. Provide standard installation guidelines and details for the proposed work. Provide copy(ies) of letters of denial to third parties when access denied. See Task Code 17 for Road Opening Permits.	Per Agreement or Addendum	\$1,000
<b>6</b>			<b>EXCAVATED SOILS MONITORING/HANDLING/REPORTING, BIOREMEDIATION, &amp; IN-SITU CHEMICAL OXIDATION</b>		
6.1			Excavated Soil Field Monitoring - Project disciplines include labor to monitor excavated soils per 310 CMR 40.0000. Includes PID, oxygen/explosion meter, toxic gas monitoring equipment, sample jars, sampling incidentals, field screening of soil samples, sample collection, sample preparation, sample logging, sample storage, transportation of samples to laboratory, subcontractor coordination, field preparation, travel time, and vehicle expense. To include shoring oversight by PE or competent equivalent.		
	6.1.1		Full Day monitoring (greater than 6 hours including travel expense)	Per Day	\$1,387
	6.1.2		Half Day monitoring (up to 6 hours including travel expense)	Per ½ Day	\$1,040
	6.1.3		Soil Excavation Labor (refer to Task Code 1 for applicable hourly labor maximums, Task code 28-series for vehicles and heavy equipment, and Task code 6.6 for backfill materials. If bid, then bids must include labor and equipment rate sheets.	Per Day	\$2,427
6.2			Disposal Management - Review laboratory results for waste characterization, prepare Manifest/Bill of Lading, LSP Certification, and contractor/client coordination, per 300 tons if bulk soil disposal.	NTE Per BOL, Per 300 tons	\$693
6.4			Soil Disposal/Soil Recycling and transportation (max 8,000 tons) NOTE: 1 cu yd equals approx. 1.5 tons of soil. Will be paid "At Cost" (i.e. no bid required) for disposal at licensed facilities located in New England and New York. For all other disposal facilities, a minimum of 3 BIDS must be solicited or a maximum of \$70/ton will be allowed. (see Workbook)	At Cost	At Cost as noted
6.5			Soil Disposal/Lined landfill and transportation (max 8,000 tons) NOTE: 1 cu yd equals approx. 1.5 tons of soil. Will be paid "At Cost" (i.e. no bid required) for disposal at licensed facilities located in New England and New York. For all other disposal facilities, a minimum of 3 BIDS must be solicited or a maximum of \$70/ton will be allowed. (see Workbook)	At Cost	At Cost as noted
	6.5.1		Soil Disposal/Unlined landfill and transportation	Per Ton	\$0
6.6			Backfill materials, including loam, sand, stone, etc. delivered to Site. See additional guidance. NOTE: 1 cubic yard equals approximately 1.5 tons of soil.	At Cost	At Cost
6.7			Bioremediation - Ex or In-Situ Treatment includes all labor, material, equipment, bacteria, nutrients, water and other ingredients necessary for the bioremediation application. Project disciplines includes labor to conduct the bioremediation application, site supervision, subcontractor coordination, purchase of bioremediation application materials, e.g., bacteria, water, and nutrients, field preparation time and travel time. Volume of soil and/or groundwater to be treated is calculated on a cubic yard basis. See additional guidance. NOTE: 1 cubic yard equals approximately 1.5 tons of soil.	CU/YD	\$25
	6.7.1		Bioremediation or chemical application feasibility bench scale evaluation and report for groundwater.	NTE	\$3,210
	6.7.2		Bioremediation or chemical application feasibility bench scale-evaluation and report for groundwater and soil.	NTE	\$5,136
6.8			Oxygen Filter Socks for Monitoring Wells		
	6.8.1		Oxygen Filter Socks for 2" diameter Monitoring Wells	Per Foot	\$35
	6.8.2		Oxygen Filter Socks for 4" diameter Monitoring Wells	Per Foot	\$52
	6.8.3		Oxygen Filter Socks for 8" diameter Monitoring Wells	Per Foot	\$91
	6.8.4		Labor to replace/install Oxygen Filter Sock	Per Well	\$60
6.10			Oxygen Cylinder	At Cost	At Cost
	6.10.1		Oxygen/nitrogen gas	At Cost	At Cost

### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
6.11			Chemical Injections, includes travel time and equipment (excludes all chemicals see 6.11.3) (See Task Code 3.5 for health & safety equipment and Task Code 4.1 for pre-event coordination activities.)		
	6.11.1		Full Day (greater than 6 hours including travel up to and including 10	Per Day	\$3,500
	6.11.3		Chemicals	At Cost	At Cost
6.13			Injection Oversight when injection event is subcontracted		
	6.13.1		Full Day (greater than 6 hours including travel)	Per Day	\$1,950
	6.13.2		Half Day (up to 6 hours including travel )	Per ½ Day	\$1,450
<b>7</b>			<b>PORTABLE G.C.</b>		
7.1			Portable G.C. for use on site, including operator and equipment incidentals, e.g. sample jars, standards, syringes, printer, carrier gas, regulator, etc. Includes travel time and vehicle expense. Analyses limited to total volatile hydrocarbons or aromatics in air, water or soil. All sample techniques and methods per applicable MassDEP policies, guidelines and regulations. Provide report containing all printed data, QA/QC procedure, GC calibration records, and field notes.		
	7.1.1		Half Day Rate (6 hours or less including travel expenses)	Per Day	\$948
	7.1.2		Full Day Rate (Greater than 6 hours including travel expenses)	Per Day	\$1,666
	7.1.3		Weekly Rate (5 or more >6-hour days on site)	Per Week	\$6,934
	7.1.4		Analysis/Sampling Report	Each	\$1,109
	7.1.5		Tedlar Bags		
		7.1.5.1	1 Liter	Each	\$21
		7.1.5.2	3 Liter	Each	\$25
		7.1.5.3	5 Liter	Each	\$27
7.2			Passive Soil Gas Sensors, e.g. Gore Sorber or equivalent	Each	At Cost
<b>9</b>			<b>DRILLING ACTIVITIES. Three (3) competitive bids may be obtained for work and/or materials covered by this task in place of or used in conjunction with the unit price(s) below.</b>		
9.1			Equipment mobilization/demobilization (same for all drilling types, includes travel for drill rig, support vehicles and personnel (per vehicle). Based on 8 hours on-site. Includes allowable markup as applicable.		
	9.1.1		1 - 50 Miles (radius)	Each	\$420
	9.1.2		>50 Miles (radius)	Each	\$559
	9.1.3		Overtime (Over 8 hours on site inclusive of drill rig, support vehicles, and drilling personnel, not for oversight labor).	Per Hour	\$324
9.2			Inspector oversight of field work including: Vacuum Excavation, Drilling, Rock Coring, Groundwater Monitoring Well, Recovery Well, SVE Well, and AS Point Installation and Soil Sampling - Project Disciplines include labor to conduct borehole logging, field screening, and site supervision. Includes PID, oxygen/explosion meter, toxic gas monitoring equipment, sample jars, sampling incidentals, field screening of soil samples, sample collection, sample preparation, sample logging, sample storage, transportation of samples to laboratory, subcontractor coordination, field preparation, travel time, and vehicle expense.		
	9.2.1		Full Day (greater than 6 hours including travel)	Per Day	\$1,387
	9.2.2		Half Day (up to and including 6 hours including travel)	Per ½ Day	\$1,040
9.3			Soil Borings, Sampling, and Monitoring, Recovery, SVE, AS well installation and completion. All labor and equipment are included under Task Codes 9.3.1.1 to 9.3.1.5. All materials for the construction of PVC wells / points are included under Task Codes 9.3.2.1 to 9.3.2.5. Air compressor and drums are not included. Refer to guidance for special materials not included. Includes allowable markup as applicable.		
	9.3.1		All labor and equipment [inclusive of drill rig and support vehicle(s)] required for the performance of soil borings, soil sampling, installation and completion of Monitoring, Recovery, SVE, and AS wells, and soil gas sampling points (day rates include well development, sawcutting, temporary groundwater well head make-up and pad labor, drumming labor, decontamination procedures, and general site restoration (per DEP WSC 310-91). Does not include grout pump and materials, see Task Code 9.3.5 or air compressor for air rotary drilling, see Task Code 28.		
		9.3.1.1	Direct Push	Per Day	\$2,025
		9.3.1.3	Hollow Stem Auger	Per Day	\$2,079
		9.3.1.4	Air Hammer Bit Wear	Per foot	\$23
		9.3.1.5	Hollow Stem Auger - ATV	Per Day	\$2,214
		9.3.1.6	Drilling ½-day rate	Per ½ Day	\$1,620

### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
	9.3.2		Except as noted, materials include all types of PVC riser and screen pipe, j-plugs, bentonite, and sand (excludes manholes/roadboxes) .		
		9.3.2.1	Direct push acetate liners (up to 5' in length)	Each	\$15
		9.3.2.2	<2" Monitoring, Injection, AS, SVE, Recovery Well	Per Foot	\$12
		9.3.2.3	2" to <4" Monitoring, Injection, AS, SVE, Recovery Well	Per Foot	\$15
		9.3.2.4	4" to <6" Monitoring, Injection, AS, SVE, Recovery Well	Per Foot	\$23
		9.3.2.5	6" Monitoring, Injection, AS, SVE, Recovery Well	Per Foot	\$36
		9.3.2.6	Bedrock Casing 6" or less	Per Foot	\$59
	9.3.3		Monitoring, SVE, AS, Recovery well roadbox (Installation not done in conjunction with drilling task), includes concrete pad, traffic-rated roadbox, and installation labor.	Per Well	\$350
		9.3.3.1	Monitoring, SVE, AS, Recovery well roadbox (Installation done in conjunction with drilling task), includes concrete pad, traffic-rated roadbox, and installation labor.	Per Well	\$262
	9.3.4		Monitoring, SVE, AS, Recovery well manhole (Installation not done in conjunction with drilling task), includes concrete pad, traffic-rated manhole, and installation labor.	Per Well	\$467
		9.3.4.1	Monitoring, SVE, AS, Recovery well manhole (Installation done in conjunction with drilling task), includes concrete pad, traffic-rated manhole, and installation labor.	Per Well	\$379
	9.3.5		Grouting (inclusive of pump and grout materials) labor included in 9.3.1.1 to 9.3.1.5.	Per Foot	\$14
9.4			Rock Coring/Sampling to assess competency of and classify bedrock (includes drill rig, materials, labor, grouting, drums, drumming labor, restoration of work area to original and decontamination procedures; saw cutting included in per foot cost, units are per boring and including steam cleaner).		
	9.4.1		HQ 2 7/8" or equivalent.	Per Foot	\$24
	9.4.2		PQ 3 7/8" or equivalent.	Per Foot	\$42
	9.4.5		Tripod Rig	Per Day	At Cost
	9.4.6		Concrete coring		At Cost
9.5			Vibratory/Slide Hand-held Hammer - Includes the cost for all labor and equipment to install soil, soil gas and groundwater sample collection points.	Per Day	\$1,387
	9.5.1		Materials for soil, soil gas and groundwater sample collection points by vibrating/slide hand-held hammer.	At Cost	At Cost
9.6			Hand Auger for sample collection point installation or sample collection. Includes labor. Use Task Codes 9.3.2.1 - 9.3.2.4 for well materials.	Per Day	\$1,387
9.7			Well surveying		
	9.7.1		Surveying (un-licensed)		
		9.7.1.1	Half Day (6 hours or less including travel)	Per ½ Day	\$1,150
		9.7.1.2	Full Day (greater than 6 hours including travel)	Per Day	\$1,820
		9.7.1.3	Drafting - See additional guidance	Per Event	\$722
	9.7.2		Professional Survey		
		9.7.2.1	Half Day (6 hours or less including travel)	Per ½ Day	\$1,806
		9.7.2.2	Full Day (greater than 6 hours including travel)	Per Day	\$3,467
		9.7.2.3	Drafting - See additional guidance	Per Event	\$1,445
9.8			Professional Utility Survey - includes above and underground utilities, inverts, reference to most current datum and drafting.	NTE	\$4,185
9.9			Ground Penetrating Radar Survey & Report (for unregistered USTs see Workbook)	NTE	\$2,675
9.10			Survey Oversight	NTE Per Event	\$1,040
<b>10</b>			<b>MONITORING/RECOVERY WELL DEVELOPMENT (Per MassDEP WSC 310-91 MassDEP WSC 310-91 or most recent guidance/regulation). Includes allowable markup as applicable</b>		
10.1			Equipment mobilization/demobilization (includes oversight, drill rig, labor, materials, travel and steam cleaner, per vehicle) See Task Code 28 for liquids disposal. Includes allowable markup as applicable.		
	10.1.1		Equipment mobilization/demobilization 1-50 miles (radius)	Each	\$389
	10.1.2		Equipment mobilization/demobilization > 50 miles (radius)	Each	\$518
10.2			2" Well Development	Per Hour	\$259
10.3			4" Well Development	Per Hour	\$259
10.4			6-10" Well Development	Per Hour	\$347
10.5			12"-26" Well Development	Per Hour	\$395



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TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
<b>11</b>			<b>GROUNDWATER GAUGING/BAILING AND SAMPLING (per MassDEP WSC 310-91.6)</b>		
11.1			Labor and equipment to perform inspection, gauging, sampling of wells and product bailing (if required), all sampling equipment, all gauging equipment, sample jars, sampling incidentals, sample preparation, sample logging, sample storage, transportation of samples to laboratory, travel time and vehicle expenses, instruments, and decontamination materials. POET System sampling should be coded under Task Code 23.		
	11.1.1		Includes all disciplines/vehicle and travel	NTE/Event	\$750
	11.1.2		Well gauging (include all related costs)	Per Well	\$33
	11.1.3		Well purging and sampling using hand bailer (incremental cost over gauging; include all related costs including field measurements)	Per Well	\$101
	11.1.5		Hand Bail NAPL	Per Well	\$69
	11.1.6		Field Filtration of Groundwater Sample (includes filter and labor)	Per Sample	\$46
	11.1.7		Field Measurements (DO, pH, Turbidity, Conductivity, Temperature, etc.). Not to be used if wells are sampled.	Per Well	\$30
	11.1.8		Well sampling using pump (incremental cost OVER gauging; include all related costs including field measurements)	Per Well	\$116
11.2			Additional Person to Sample Monitoring Wells Due to Safety Considerations	NTE/Hour	\$86
11.3			Disposable Bailer with VOC Sampler	Each	\$12
11.4			Surface Water and/or Sediment Sampling		
	11.4.1		Labor	Per Event	\$2,592
	11.4.2		Equipment	At Cost	
	11.4.3		Catch Basin Sampling	Per Event	\$583
11.5			Potable Well/Tap Sampling	Per Sample	\$76
11.6			Adsorbent Boom/Passive Skimmer Placement and/or Removal – Labor Only. Material cost of passive skimmer/ boom or sock should be coded under Task Code 29.	Per hour	\$100
<b>12</b>			<b>AQUIFER PUMP TEST</b>		
12.1			Perform an 8 hour step and/or a 12, 24 or 48-hour constant discharge pumping test: Subtasks shall include the following: • 2 Personnel to be on site at all times • Maximum of 10 data points to be evaluated • All equipment, materials and supplies • Equipment mobilization/demobilization • Disciplines travel • Field preparation (inc. all material and equipment) • 8 hour step discharge test • 12/24/48-hour constant discharge test with recovery • Coordinate storage of extracted groundwater (if required) • Test analysis, documentation and report • Project disciplines cost NOTE: For storage, disposal, or treatment operation of extracted water, refer to other pertinent task codes. See additional guidance.		
	12.1.1		Aquifer Pump Test		
		12.1.1.1	Step discharge (up to 8 hours)	NTE	\$3,120
		12.1.1.2	12 hour constant discharge	NTE	\$4,045
		12.1.1.3	24 hour constant discharge	NTE	\$6,240
		12.1.1.4	48 hour constant discharge	NTE	\$11,325
<b>13</b>			<b>RISING OR FALLING HEAD (SLUG) TEST / LNAPL BAIL DOWN TEST</b>		
13.1			Perform rising or falling head (slug) test;		
	13.1.1		Full Day (Greater than 6 hours on site)	Per Day	\$2,658
	13.1.2		Half Day (6 hours or less on site)	Per Day	\$1,618

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TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
<b>14</b>			<b>SOIL VAPOR EXTRACTION / AIR SPARGING TESTING</b>		
14.1			Labor and equipment to perform VES and/or air sparge testing; Subtasks shall include the following: • Equipment mobilization/demobilization • Travel time and vehicle expense • Field preparation (inc. all material and equipment) • Data evaluation, documentation and report • Vapor transport modeling • Permitting • Project disciplines cost • Laboratory Analyses found under Task Code 27 • Equipment Rental found under Task Code 28 • Fluids disposal found under Task Code 28 See additional guidance		
	14.1.1		Conduct extraction test with air emissions treatment (<10" Hg)	NTE	\$5,322
	14.1.2		Conduct high vacuum extraction test with air emissions treatment (>10" Hg)	NTE	\$6,656
	14.1.3		Conduct sparge test in conjunction w/SVE test with air emissions treatment	NTE	\$5,599
	14.1.4		Conduct sparge test only w/existing SVE system	NTE	\$4,050
<b>15</b>			<b>REMEDATION FEASIBILITY STUDIES (NET PRESENT VALUE)</b>		
15.1			Feasibility study - See additional guidance.		
	15.1.1		NPV analysis on 2 options	NTE	\$555
	15.1.2		NPV analysis for each additional item	NTE	\$208
<b>16</b>			<b>LEASE/PURCHASE ANALYSIS &amp; BID SPECIFICATIONS</b>		
16.1			Lease vs. Purchase analysis per 503 CMR 2.10(c) - See additional guidance.	NTE	\$416
16.2			Bid Specification Preparation Time - See additional guidance.	Each	\$4,160
<b>17</b>			<b>REMEDATION PERMITTING</b>		
17.1			Permit preparation, acquisition, and monitoring. Permit fees to governmental agencies are not reimbursable. Refer to Task Code 20 for utility permits		
	17.1.1		Discharge Permits		
		17.1.1.1	DRGP Emergency Authorization	Each	\$578
		17.1.1.2	DRGP - Formal Application/Remediation General Permit	Each	\$5,000
		17.1.1.3	MADEP - Surface Water Discharge Permit	Each	\$1,941
		17.1.1.4	Industrial discharge/POTW/MWRA Permit	Each	\$2,496
		17.1.1.5	Local Discharge Permit	Each	\$1,156
		17.1.1.6	Air Emissions Permit	Each	\$1,109
			Discharge Monitoring Reports		
		17.1.1.7.1	Initial Discharge Monitoring Report	Each	\$480
		17.1.1.7.2	Monthly Discharge Monitoring Report	Each	\$381
		17.1.1.7.3	Quarterly Discharge Monitoring Report	Each	\$480
		17.1.1.8	Remediation Dewatering - project disciplines include labor to monitor & operate groundwater remediation pumping and treatment equipment. Includes PID, oxygen explosion meter, toxic gas monitoring equipment, sample jars, sampling incidentals, field screening of water samples, and transportation of samples to laboratory, subcontractor coordination, field preparation and travel time. Includes up to and including 25.5 hours of labor on site with 1/2 hour overlap between shifts.	Per Day	\$3,900
	17.1.2		Building Permit	Each	\$924
	17.1.3		Wetlands Approval and/or Rivers Protection Act - Includes DEP required sign	Each	\$4,715
	17.1.4		Road Opening Permit / Trenching Permit	Each	\$832
		17.1.4.1	Prepare and Submit Traffic Plan to the State Department of Public Works	Each	\$1,387
	17.1.5		Other required permit	Each	\$277
	17.1.6		Dye Test to Confirm Outfall Location	Each	\$462

### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
18			<b>TRENCHING AND INSTALLATION OF UNDERGROUND PIPING AND EQUIPMENT AREA/ENCLOSURE FOR VES, AIR SPARGING AND/ OR GROUNDWATER EXTRACTION SYSTEM - Project Disciplines include labor to conduct field screening and site supervision. Includes PID, oxygen/explosion meter, toxic gas monitoring equipment, sample jars, sampling incidentals, field screening of soil samples, sample collection, sample preparation, sample logging, sample storage, transportation of samples to laboratory, subcontractor coordination, field preparation, travel time, and vehicle expense. Three (3) competitive bids may be obtained for any work and/or materials covered by these tasks in place of the unit price(s), or used in conjunction with the unit price(s). See Task Code 28-series for construction equipment and labor. Includes allowable markup as applicable.</b>		
18.1			Project disciplines cost - Full Day (greater than 6 hours including travel time) (supervision and oversight)	Per Day	\$1,387
18.2			Project disciplines cost - Half Day ( 6 hours or less including travel time) (supervision and oversight)	Per ½ Day	\$1,040
18.3			Installation Crew: Up to 4 people per day including 10 hours on site and inclusive of travel time. To be utilized in conjunction with other applicable Task Code 28-series. Use for all tasks associated with installation of underground piping, remediation infrastructures (i.e. shed and vaults), and site restoration activities.	Per Crew/ Per Day	\$4,515
18.4			Remediation system materials, including but not limited to pipe, fittings and adapters, glue, primer, backfill materials, asphalt, concrete and cement, final roadbox/manhole installation, etc.	At Cost	At Cost
18.5			Remediation equipment compound and/or shed, including explosion proof lights & heater, slab/pad/footings, and fencing. For electrical installation, refer to Task Code 20.4	At Cost	At Cost

20			<b>INSTALLATION OF UTILITIES FOR REMEDIATION SYSTEMS ONLY. (Includes allowable markup as applicable.)</b>		
20.1			Coordination of utility installation, including phone calls, permit applications and associated paperwork. Remediation systems to be metered separately from all other uses. Reimbursement per utility. Monthly utility bills are coded under 23.2. Site visits may also be included under task code 4.2	Per Utility	\$693
20.2			Utility installation costs from street to meter excluding federal, state or local governmental fees.	At Cost	At Cost
20.3			Electrical Installation Crew to complete the electrical service and the remediation system installation, including labor for electrical work related to equipment components identified in Task Code 22. Three (3) competitive bids may be obtained for work and/or materials covered by this task in place of or used in conjunction with the unit price(s).	Per Day	\$1,728
20.4			Remediation System Electrical installation materials. (e.g. conduit, wire, breakers, service panel, mast for meter, etc) Purchase of Remediation System electrical control panel should be coded to Task Code 22.4	At Cost	At Cost

22			<b>PURCHASE AND INSTALLATION OF COMPONENTS OF REMEDIATION SYSTEMS (INCLUDING PORTABLE, SKID-MOUNTED AND STAND ALONE SYSTEM COMPONENTS) NOTE: Three (3) competitive bids may be obtained for work and/or materials covered by these Task Codes in place of the unit price(s), or in conjunction with the unit price(s). Three (3) bids may be required for Task Code 22.4. See additional guidance. Includes allowable markup as applicable.</b>		
22.1			Removal and reinstallation of surface components of remediation systems (including portable, skid-mounted and stand alone system components).	NTE	\$13,867
22.2			Removal and/or storage of remediation equipment (including portable, skid mounted and stand alone system components).	NTE	\$4,160
22.3			Installation crew, travel time and vehicle expense	Per Day	\$2,085
22.4			Remedial System Equipment Purchase - Surface Components of Remediation Systems. This task code can only be used for single components <=\$5,000 with a \$25,000 system aggregate. Three bids are required for components >\$5,000 and systems >\$25,000. See additional guidance	At Cost	At Cost

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TASKS		ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
<b>23</b>		<b>SVE AND GROUNDWATER REMEDIATION SYSTEMS OPERATION AND MAINTENANCE. Includes allowable markup as applicable.</b>		
23.1		General O&M of Remedial Systems - Project Disciplines include labor to obtain operational measurements of system, vapor and liquid sample collection, and routine system component maintenance. Includes PID/FID, pitot tube/rotameter, hand pump, sample jars, sampling incidentals, field screening of samples, sample preparation, sample logging, sample storage, transportation of samples to laboratory, subcontractor coordination, field preparation, travel time, and vehicle expenses (excludes labor and materials associated with groundwater monitoring, gauging, sampling, which are to use the task codes in Task Code 11).		
	23.1.1	Full Day is greater than 6 hours inclusive of travel time and expense. One hour total of project management/administrative time is allowed under this task code and is included in the day rate.	Per Day	\$1,420
	23.1.2	Half Day is up to 6 hours inclusive of travel time and expense. One hour total of project management/administrative time is allowed under this task code and is included in this half day rate.	Per ½ Day	\$953
	23.1.3	Extra Person on site to accomplish labor intensive tasks (i.e. Air stripper cleaning, air stripper packing replacement, moving equipment, etc) - Reason for extra person required with submission.	Per Hour	\$75
	23.1.4	Non-incident operation and maintenance materials (filter elements, sequestering agents, chemical additives, etc.) This code is only for operation and maintenance materials	At Cost	At Cost
23.2		Utilities - Metered separately from all other uses.	At Cost	At Cost
23.3		Repair of system per year from system start-up, per year, including labor, see additional guidance	NTE	\$9,245
23.4		Cleaning Air Stripper Trays or Towers - (materials and disposal)		
	23.4.1	Packing replacement/disposal	At Cost	At Cost
	23.4.2	Acid wash air stripper tray or tower	At Cost	At Cost
23.5		Carbon treatment system		
	23.5.1	Carbon or <200 lbs Carbon vessel replacement (liquid or vapor phase / virgin or regenerated)	At Cost	At Cost
	23.5.2	Carbon or <200 lb Carbon vessel - Disposal/reactivation	At Cost	At Cost
23.6		Contaminated liquid removal and disposal		
	23.6.1	Contaminated (non hazardous)Water Disposal-Bulk - Includes labor	Per Gallon	\$2.27
	23.6.2	NAPL and Disposal	Per Gallon	\$2.92
	23.6.3	Sludge and Disposal-Bulk	Per Gallon	\$13.11
	23.6.4	Contaminated Water Disposal - 6 Drums Maximum	Per 55 Gal Drum	\$303
	23.6.4.1	Transportation of Drum(s)	Per Event	\$525
	23.6.5	Mixed Media Disposal/Nonrecyclable or Characteristic Hazardous Waste - 10 Drums Maximum	Per 55 Gal Drum	\$1,691
	23.6.5.1	Transportation of Drum(s)	Per Event	\$525
	23.6.6	Virgin Petroleum Oil Contaminated Soil - 10 Drums Maximum	Per 55 Gal Drum	\$245
	23.6.6.1	Transportation of Drum(s)	Per Event	\$525
23.7		Piping & Instrumentation Diagram (P&ID)	Per system	\$1,716
<b>24</b>		<b>CONCRETE WELL PAD/ROAD BOX/MANHOLE REMOVAL AND REPLACEMENT/REPAIR. Includes allowable markup as applicable.</b>		
24.1		Remove and replace concrete pad/manhole/road box/standpipe		
	24.1.1	Pad replacement (old and new pad elevation shall remain consistent, if appropriate) Task maximum for this activity is inclusive of travel time and equipment.		
	24.1.1.1	1 - 3 Pads	Per Pad	\$412
	24.1.1.2	> 3 Pads	Per Pad	\$368
	24.1.2	Replace traffic-rated roadbox or standpipe (<18" diameter) and pad (Includes pad replacement)		
	24.1.2.1	1 - 3 Roadbox	Each	\$487
	24.1.2.2	>3 Roadbox	Each	\$449
	24.1.3	Replace traffic-rated manhole (>=18" diameter) and pad (Includes pad replacement)		
	24.1.3.1	Manholes	At Cost	At Cost
	24.1.4	Locking Monitoring Well Plugs as Replacement		
	24.1.4.1	2" Diameter	Each	\$23
	24.1.4.2	4" Diameter	Each	\$35
	24.1.4.3	6" Diameter	Each	\$47

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TASKS		ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
	24.1.5	Replacement monitoring well covers with O-rings		
	24.1.5.1	4" Diameter	Each	\$35
	24.1.5.2	6" Diameter	Each	\$41
	24.1.5.3	8" Diameter	Each	\$44
	24.1.5.4	12" Diameter	Each	\$64
	24.1.5.5	Labor for Well cover repair	Each	\$60
	24.1.6	Equipment mobilization/demobilization (per vehicle) box/pad replacement (includes equipment travel)		
	24.1.6.1	Equipment mobilization/demobilization 1-50 miles (radius)	Each	\$420
	24.1.6.2	Equipment mobilization/demobilization > 50 miles (radius)	Each	\$559

<b>25</b>		<b>WELL ABANDONMENT. Includes allowable markup as applicable.</b>		
25.1		Equipment mobilization/demobilization (includes equipment travel)		
	25.1.1	Equipment mobilization/demobilization 1-50 miles (radius)	Each	\$420
	25.1.2	Equipment mobilization/demobilization > 50 miles (radius)	Each	\$559
25.2		Inspector oversight of field work including: Project Disciplines include labor to oversee well abandonment including subcontractor coordination, field preparation, travel time, and vehicle expense.		
	25.2.1	Full Day (greater than 6 hours including travel)	Per Day	\$1,387
	25.2.2	Half Day (up to and including 6 hours including travel)	Per ½ Day	\$1,040
25.3		Well abandonment by pressure grouting		
	25.3.1	2" Diameter well	Per Foot	\$21
	25.3.2	4" Diameter well	Per Foot	\$23
	25.3.3	6" Diameter well	Per Foot	\$27
	25.3.4	8" Diameter well	Per Foot	\$33
25.4		Well abandonment by drill out and grout method (all per foot costs, clean-up) For surface restoration, use Task Code 24.		
	25.4.1	2" Diameter well	Per Foot	\$21
	25.4.2	4" Diameter well	Per Foot	\$27
	25.4.3	6" Diameter well	Per Foot	\$33
	25.4.4	8" Diameter well	Per Foot	\$40
25.5		DEP Report submitted by Massachusetts Licensed Driller	Per Report	\$130

<b>26</b>		<b>DEP AND MCP REQUIRED MEETINGS AND OUT OF SCOPE TRAVEL</b>		
26.1		All disciplines: labor, equipment, and travel cost (including all related hrs.) for DEP meetings. See additional guidance.		
	26.1.1	0 - 50 Miles (radius)	NTE/Per Event	\$465
	26.1.2	51 - Maximum 100 Miles (radius)	NTE/Per Event	\$615
	26.1.3	DEP Requested Meetings	Each	\$1,387
	26.1.3.1	DEP Information Gathering & Response	NTE/Per Event	\$1,387
	26.1.3.2	Audit Follow-Up Plan per 310 CMR 40.1160	NTE/Per Event	\$2,496
	26.1.3.3	Audit Follow-Up Plan Completion Statement per 310 CMR 40.1170	NTE/Per Event	\$3,467
	26.1.4	Post Site Closure DEP Audit	NTE	\$1,387
26.2		LSP Site Visit (includes labor, travel time and vehicle) One visit per year. (See Workbook guidance for additional visits.)	Per visit	\$1,095

<b>27</b>		<b>LABORATORY ANALYSIS (Includes allowable markup)</b>		<b>UOM</b>	
27.1		<b>GENERAL CHEMISTRY</b>			
	27.1.3	Oil & Grease	Each	\$92	
	27.1.5	pH	Each	\$16	
	27.1.6	Total Organic Carbon	Each	\$54	
	27.1.8	Turbidity	Each	\$22	
	27.1.8.1	Total Dissolved Solids.	Each	\$22	
	27.1.8.2	Total Suspended Solids	Each	\$22	
	27.1.8.3	Total Settleable Solids.	Each	\$22	
	27.1.10	Salinity	Each	\$22	
	27.1.11	Total Kjeldahl Nitrogen	Each	\$49	
	27.1.12	Nitrogen, Nitrate	Each	\$27	
	27.1.13	Nitrogen, Nitrite	Each	\$27	
	27.1.14	Nitrogen Ammonia	Each	\$32	
	27.1.15	Total Phosphorous	Each	\$32	
	27.1.16	Percent Moisture	Each	\$27	
	27.1.17	Sulfate US EPA Method 375.40 (Groundwater Only)	Each	\$27	
	27.1.18	Chloride US EPA Method 325.1 or Standard Methods 4500-CLB (Groundwater Only)	Each	\$27	
	27.1.20	MBAS (Surfactants)	Each	\$81	
	27.1.21	Sulfide	Each	\$32	
	27.1.25	Phenolics	Each	\$41	
	27.1.27	Total Residual Chlorine	Each	\$22	
	27.1.28	Specific Conductance	Each	\$22	
	27.1.29	CTAS Surfactants	Each	\$154	

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TASKS		ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
27.2		<b>MICROBIOLOGY</b>		
	27.2.1	Bioremediation parameters		
	27.2.1.1	Total Viable Organisms (HTPC)	Each	\$70
	27.2.1.5	Petroleum & BTEX Degraders	Each	\$135
	27.2.1.6	Biological Oxygen Demand	Each	\$46
	27.2.1.7	Chemical Oxygen Demand	Each	\$29
	27.2.1.8	CO2 (Carbon Dioxide)	Each	\$36
27.3		<b>METALS &amp; MINERALS</b>		
	27.3.1	Aluminum	Each	\$16
	27.3.2	Antimony	Each	\$16
	27.3.3	Arsenic	Each	\$16
	27.3.4	Barium	Each	\$16
	27.3.5	Beryllium	Each	\$16
	27.3.6	Boron	Each	\$16
	27.3.7	Cadmium	Each	\$16
	27.3.8	Calcium	Each	\$16
	27.3.9	Chromium, Total	Each	\$16
	27.3.10	Chromium, Hexavalent	Each	\$45
	27.3.10.1	Chromium, Trivalent	Each	\$92
	27.3.12	Copper	Each	\$16
	27.3.13	Total Iron (Total FE)	Each	\$24
	27.3.13.1	Ferrous Iron (FE2)	Each	\$39
	27.3.13.2	Ferric Iron (FE3)	Each	\$71
	27.3.14	Lead	Each	\$19
	27.3.14.1	Tetra-ethyl Lead. This is an additional method applicable to water only. Method ASTM E3341-91M	Each	\$162
	27.3.16	Magnesium	Each	\$16
	27.3.17	Manganese	Each	\$16
	27.3.18	Mercury	Each	\$16
	27.3.19	Molybdenum	Each	\$16
	27.3.20	Nickel	Each	\$16
	27.3.21	Potassium	Each	\$16
	27.3.22	Selenium	Each	\$16
	27.3.23	Silver	Each	\$16
	27.3.24	Sodium	Each	\$16
	27.3.29	Zinc	Each	\$16
	27.3.30	RCRA 8 Metals - AS/BA/CD/CR/PB/HG/SE/AG *	Each	\$118
	27.3.31	Priority Pollutant Package (13) AS/SB/BE/CD/CR/CU/NI/PB/HG/SE/AG/TL/ZN	Each	\$172
	27.3.32	MCP 13 Metals	Each	\$181
	27.3.33	MCP 14 Metals	Each	\$201
27.4		<b>GAS CHROMATOGRAPHY</b>		
	27.4.2	Purgeable Aromatics	Each	\$90
	27.4.4	BTEX & MTBE	Each	\$94
	27.4.5	Volatile Organic Analysis & MTBE-GCMS or other EPA Method	Each	\$210
	27.4.6	Methanol	Each	\$81
	27.4.6.1	Oxygenates (DIPE, ETBE, TBA, TAME)	Each	\$174
	27.4.6.2	Ethanol	Each	\$178
	27.4.6.2.1	Ethanol Add on	Each	\$16
	27.4.7.1	Methane, Ethane & Ethene (ME&E) US EPA Method 8015/RSKERR	Each	\$160
	27.4.8	Semi-volatile organic analysis	Each	\$356
	27.4.8.1	Methylphenol (Add On)		
	27.4.8.2	Semi-volatile MCP List	Each	\$356
	27.4.9	Semi-Volatile Petroleum Hydrocarbons/GCFID (Diesel Range)	Each	\$122
	27.4.10	GCFID Fingerprint	Each	\$97
	27.4.11	Pesticides (Priority Pollutant)	Each	\$122
	27.4.12	PCB's	Each	\$102
	27.4.14	BTEX, Ethers (MTBE, DIPE) Add on	Each	\$92
	27.4.15	Polynuclear Aromatic Hydrocarbons (PAH)	Each	\$148
	27.4.15.1	Polynuclear Aromatic Hydrocarbons (PAH) By SIM	Each	\$160
	27.4.16	<b>AIR SAMPLE ANALYSIS</b>		
	27.4.16.1	BTEX & MTBE	Each	\$103
	27.4.16.2	Volatile Petroleum Hydrocarbons/ Gasoline Range & Methane	Each	\$130
	27.4.16.3	Polynuclear Aromatic Hydrocarbons by GC/MS	Each	\$270
	27.4.16.4	Petroleum Hydrocarbons/Diesel Fuel Range	Each	\$135
	27.4.17	<b>AIR SAMPLE ANALYSIS - INDOOR AIR QUALITY</b>		
	27.4.17.1	BTEX & MTBE - includes Summa Canister	Each	\$518
	27.4.17.1.2	TO15 (TO14 + 15 TICS)	Each	\$313
	27.4.17.2	Volatile Petroleum Hydrocarbons/ Gasoline Range		
	27.4.17.2.2	Includes Summa Canister	Each	\$324
	27.4.17.3	DEP Air Petroleum Hydrocarbons (Draft Method)		
	27.4.17.3.1	SUMMA Canister - DEP Method - Normal Turnaround	Each	\$418
	27.4.17.3.3	Tenax Tubes - DEP Method - Normal	Each	\$459

### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
	27.4.18		DEP VPH	Each	\$117
		27.4.18.1	Method 5035 -Soil Preservation Kit for Unknown or Low Level Concentrations	Each	\$16
		27.4.18.3	Method 5035 - Soil Preservation Kit for Medium Level Concentrations	Each	\$16
	27.4.27		DEP EPH	Each	\$202
	27.4.28		Methane (US EPA Method 8015M/EP18/TO3)	Each	\$170
27.5			<b>RCRA WASTE CHARACTERIZATION</b>		
	27.5.1		Ignitability (flash point)	Each	\$36
	27.5.2		Corrosivity (as pH)	Each	\$15
	27.5.3		Cyanide Reactivity	Each	\$59
	27.5.4		Sulfide Reactivity	Each	\$59
	27.5.5		Paint Filter	Each	\$17
	27.5.6		TCLP Extraction-Add on	Each	\$58
	27.5.7		Zero Headspace Extraction	Each	\$52
	27.5.8		Metal Extraction	Each	\$35
	27.5.9		Alkalinity	Each	\$24
27.6	27.5.10		TCLP Metals	Each	\$103
			<b>DRINKING WATER ORGANICS</b>		
	27.6.4		Ethylene Dibromide/1,2 Dibromo-3-Chloropropane	Each	\$86
	27.6.9		Volatile Organic Analysis (Task Code eliminated - see TC 27.4.5)	Each	
27.8	27.6.10		Semi-Volatile Organic Analysis	Each	\$307
			<b>PETROLEUM HYDROCARBONS</b>		
	27.8.1		Total Petroleum Hydrocarbons (TPH)	Each	\$92
27.9			<b>GEOTECHNICAL ANALYSES</b>		
	27.9.1		Sieve/Hydrometer Grain Size Analysis (gradation)	Each	\$135
	27.9.2		Bulk Density	Each	\$135
	27.9.3		Flexible Wall Permeability	Each	\$335
27.10			Laboratory Add On		
	27.10.1		Groundwater Sample Filtration	Each	\$17
	27.10.3		MCP Data Package	Each	\$59

28			EQUIPMENT RENTAL: Equipment can be rented/leased for up to six (6) months without conducting a purchase/lease analysis. A purchase/lease analysis must be conducted by the end of 6 months. Includes allowable markup.	UOM	
28.1			Soil Vapor Extraction Module with vacuum blower, moisture separator and controls.		
	28.1.1		100-150 scfm		
		28.1.1.1	Daily		\$81
		28.1.1.3	Monthly		\$972
	28.1.2		150-250 scfm		
		28.1.2.3	Monthly		\$1,620
	28.1.3		250-400 scfm		
		28.1.3.1	Daily		\$216
		28.1.3.3	Monthly		\$2,592
	28.1.4		400-550 scfm		
		28.1.4.3	Monthly		\$3,240
28.2			Portable Air Compressor, Diesel or Gasoline Powered (includes fuel)		
	28.2.1		100 - 299 scfm		
		28.2.1.1	Daily		\$311
		28.2.1.3	Monthly		\$2,588
	28.2.2		300 - 750 scfm		
		28.2.2.1	Daily		\$497
	28.2.3		751-900 scfm		
		28.2.3.1	Daily		\$621
		28.2.3.2	Weekly		\$2,174
		28.2.3.3	Monthly		\$9,315
	28.2.4		901-1,400 scfm		
		28.2.4.1	Daily		\$932
28.3			Backhoe/Loader, rubber tire		
	28.3.1		Hourly		\$103
	28.3.2		Daily		\$760
	28.3.3		Weekly		\$2,660
28.4			Excavator, track		
	28.4.1		Hourly		\$157
	28.4.2		Daily		\$1,160
	28.4.3		Weekly		\$4,060
28.5			Exhaust Fan, 10" Explosion Proof		
	28.5.1		Daily		\$29
	28.5.2		Weekly		\$102
	28.5.3		Monthly		\$437
28.6			Exhaust Fan, 20" Explosion Proof		
	28.6.1		Daily		\$76
	28.6.3		Monthly		\$1,137
28.7			Equipment Enclosure 8' x 20'		
	28.7.2		Monthly		\$933
28.9			Generator (Excluding fuel)		
	28.9.1		3.5 kw		

### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS		ITEM DESCRIPTION		UOM	MAXIMUM ALLOWED
		28.9.1.1	Daily		\$181
		28.9.1.2	Weekly		\$635
	28.9.2	6.5 kw			
		28.9.2.1	Daily		\$238
	28.9.3	28.9.2.3	Monthly		\$3,564
		10 to 24 kw			
		28.9.3.1	Daily		\$362
	28.9.4	28.9.3.2	Weekly		\$1,266
		25 to 49 kw			
		28.9.4.1	Daily		\$405
		28.9.4.2	Weekly		\$1,418
		28.9.4.3	Monthly		\$6,075
	28.9.6	Fuel		At Cost	At Cost
	28.9.7	Motor Oil		At Cost	At Cost
28.10		Jack Hammer, pneumatic 90 lb.			
	28.10.1	Hourly			\$54
28.11	28.10.2	Daily			\$375
		Discharge Hose			
	28.11.1	3/4" X 50'			
		28.11.1.3	Monthly		\$49
	28.11.2	2" X 50'			
		28.11.2.1	Daily		\$43
		28.11.2.2	Weekly		\$151
		28.11.2.3	Monthly		\$648
	28.11.3	3" X 50'			
		28.11.3.1	Daily		\$65
		28.11.3.2	Weekly		\$227
28.12		Skid Steer Loader or Mini Excavator			
	28.12.1	Skid Steer Loader (with bucket/blade)			
		28.12.1.1	Daily		\$837
		28.12.1.2	Weekly		\$2,930
		28.12.1.3	Monthly		\$12,555
		28.12.1.4	Hydraulic attachment (e.g. hammer, excavator, sweeper)	Per Day	\$324
	28.12.2	Mini Excavator (up to 9 metric tons)			
		28.12.2.1	Daily		\$837
		28.12.2.2	Weekly		\$2,930
		28.12.2.3	Monthly		\$12,555
28.13		3 to 4 Yard Loader, Front-end			
	28.13.1	Daily			\$1,166
	28.13.2	Weekly			\$4,082
28.14		Mounted LEL Sensor			
	28.14.1	Daily			\$41
	28.14.3	Monthly			\$268
28.15		Pump, Construction/Dewatering			
	28.15.1	1 hp			
		28.15.1.1	Daily		\$52
		28.15.1.2	Weekly		\$181
		28.15.1.3	Monthly		\$622
	28.15.2	2 hp			
		28.15.2.1	Daily		\$70
		28.15.2.2	Weekly		\$245
		28.15.2.3	Monthly		\$933
	28.15.3	3 hp			
		28.15.3.1	Daily		\$87
		28.15.3.2	Weekly		\$350
		28.15.3.3	Monthly		\$1,050
	28.15.4	5 hp			
		28.15.4.1	Daily		\$93
		28.15.4.2	Weekly		\$373
		28.15.4.3	Monthly		\$484
	28.15.5	10 hp			
		28.15.5.1	Daily		\$292
		28.15.5.2	Weekly		\$1,021
		28.15.5.3	Monthly		\$2,916



### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS		ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
28.16		Oil/Water Separator/Storage Tank		
	28.16.1	0-50 gpm w/ 280 Gallon Storage		
	28.16.1.3	Monthly		\$2,100
	28.16.1.4	Coalescing Pack	At Cost	At Cost
	28.16.2	51-100 gpm w/ 550 Gallon Storage		
	28.16.2.3	Monthly		\$2,799
	28.16.2.4	Coalescing Pack	At Cost	At Cost
	28.16.3	>100 gpm w/ 1,000 Gallon or Greater Storage		
	28.16.3.2	Weekly		\$1,166
	28.16.3.3	Monthly		\$3,499
	28.16.3.4	Coalescing Pack	At Cost	At Cost
	28.16.4	Mobile Tanker (separator 5,000-8,800 gallons)		
	28.16.4.1	Daily		\$292
	28.16.4.3	Monthly		\$2,100
28.17		Internal Combustion Engine		
	28.17.1	Daily		\$467
	28.17.3	Monthly		\$5,599
	28.17.4	Fuel	At Cost	At Cost
	28.17.5	Thermal Oxidizer		
	28.17.5.3	Monthly		\$5,599
	28.17.6	Thermal Oxidizer/Catalytic Converter		
	28.17.6.3	Monthly		\$6,998
	28.17.7	Tractor, truck		
	28.17.7.1	Daily		\$907
	28.17.7.2	Weekly		\$3,175
	28.17.7.3	Monthly		\$13,608
	28.17.8	Trailer/Low bed		
	28.17.8.1	Daily		\$130
	28.17.8.2	Weekly		\$359
	28.17.8.3	Monthly		\$1,539
	28.17.9	Water Tanker		
	28.17.9.3	Potable, Spring or Well Water	At Cost	At Cost
	28.17.10	Truck, (6 Wheel) 2 to 10 Yard Dump		
	28.17.10.1	Daily		\$1,037
	28.17.10.2	Weekly		\$3,629
	28.17.10.3	Monthly		\$15,552
	28.17.10.4	Hourly		\$104
	28.17.11	Truck, (10 Wheel) 20 Yard Dump		
	28.17.11.1	Daily		\$1,318
	28.17.11.2	Weekly		\$4,612
	28.17.11.3	Monthly		\$19,764
	28.17.11.4	Hourly		\$132
	28.17.13	General vehicle (Pickup Truck, passenger vehicle, van)		
	28.17.13.1	Daily		\$162
	28.17.13.2	Weekly		\$567
	28.17.14	Truck, Maintenance/Boom/Bucket		
	28.17.14.1	Daily		\$944
	28.17.14.2	Weekly		\$3,304
	28.17.14.3	Monthly		\$7,776
	28.17.15	Truck, Mobile Shop/Box - vehicle only		
	28.17.15.1	Daily		\$233
28.18		Treatment Systems		
	28.18.1	Air Stripper with associated piping, flow controls, and flow meter		
	28.18.1.1	0 - 25 gpm		
	28.18.1.1.1	Daily		\$117
	28.18.1.1.3	Monthly		\$1,400
	28.18.1.2	26 - 50 gpm		
	28.18.1.2.3	Monthly		\$2,100
	28.18.1.3	> 50 gpm		
	28.18.1.3.1	Daily		\$292
	28.18.1.3.2	Weekly		\$1,166
	28.18.2	Liquid Phase Carbon Canisters excluding granular activated carbon, unless otherwise noted. See Task code 23 for carbon.		
	28.18.2.1	55 Gallon drum, 5 psig max design pressure, 0-10 gpm, up to 185 lbs of carbon included.		
	28.18.2.1.3	Monthly - one month maximum reimbursement		\$420
	28.18.2.2	Pressure vessel, 150 psig max design pressure, 0-25 gpm, 125-200 lbs of carbon required to fill vessel		
	28.18.2.2.3	Monthly		\$700
	28.18.2.3	Pressure vessel, 150 psig max design pressure, 0-35 gpm, 400-600 lbs of carbon required to fill vessel		
	28.18.2.3.3	Monthly		\$875
	28.18.2.4	Pressure vessel, 75 psig max design pressure, 0-50 gpm, 800-1200 lbs of carbon required to fill vessel		
	28.18.2.4.1	Daily		\$117
	28.18.2.4.2	Weekly		\$583
	28.18.2.4.3	Monthly		\$2,041

### Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023

TASKS		ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
28.18	28.18.2	28.18.2.5 Pressure vessel, 75 psig max design pressure, 0-75 gpm, 1500-2000 lbs of carbon required to fill vessel		
		28.18.2.5.2 Weekly		\$875
		28.18.2.5.3 Monthly		\$2,916
	28.18.3	Vapor phase carbon canisters offgas treat system excluding granular activated carbon unless otherwise noted. See Task Code 23		
		28.18.3.1 55 Gallon drum, 5 psig design pressure, 0-100 cfm of air flow		
		28.18.3.1.1 Daily		\$23
		28.18.3.1.3 Monthly - one month maximum reimbursement		\$653
		28.18.3.2 Pressure vessel, 15 psig design pressure, 0-300 cfm of air flow, 300-500 lbs of carbon required to fill vessel		
		28.18.3.2.3 Monthly		\$700
		28.18.3.3 Pressure vessel, 15 psig design pressure, 0-500 cfm of air flow, 800-1000 lbs of carbon required to fill vessel		
		28.18.3.3.3 Monthly		\$840
		28.18.3.4 Pressure vessel, 15 psig design pressure, 0-1000 cfm of air flow, 1800-2000 lbs of carbon required to fill vessel		
		28.18.3.4.1 Daily		\$82
		28.18.3.4.3 Monthly		\$980
		28.18.3.5 Pressure vessel, 15 psig design pressure, 0-1500 cfm of air flow, 2200-2500 lbs of carbon required to fill vessel		
		28.18.3.5.2 Weekly		\$373
		28.18.3.5.3 Monthly		\$1,120
		28.18.3.6 Pressure vessel, 29.9 inches vacuum of mercury max, 0-1000 cfm of air flow, 1800-2000 lbs of carbon required to fill vessel		
		28.18.3.6.1 Daily		\$93
		28.18.3.6.2 Weekly		\$373
		28.18.3.6.3 Monthly		\$1,120
	28.18.4	28.18.4 Liquid Vacuum Truck with Operator	Per Hour	\$232
		28.18.4.1 Vactor Solids Excavator with Operator	Per Hour	\$202
		28.18.4.2 Trailer Mounted Air Excavator with Operator	Per Hour	\$137
		28.18.4.3 Monthly EFR-Up to 2 Events per month for a maximum of 6 months - See additional Workbook guidance	Per Event	\$4,082
	28.18.5	28.18.5 Liquid Disposal	Per Gallon	\$2
		28.18.5.1 Frac Tanks (21,000 Gallon)		
		28.18.5.1.1 Daily		\$146
		28.18.5.1.2 Weekly		\$583
		28.18.5.1.3 Monthly		\$2,100
		28.18.5.1.4 Mob or DeMob Per Tank	NTE	\$700
	28.18.6	28.18.5.1.5 Decontamination of Frac Tank	T & M/NTE	\$4,320
		28.18.6 Mobile Groundwater Treatment Trailer with oil/water separator, liquid phase granular activated carbon vessels, transfer pump, heater and electrical controls. Up to 50 gallons per minute.		
		28.18.6.1 Daily		\$292
		28.18.6.2 Weekly		\$1,166
	28.18.7	28.18.6.3 Monthly		\$3,499
		28.18.7 Mobile Groundwater Treatment Trailer with oil/water separator, liquid phase granular activated carbon vessels, up to 50 gallons per minute, transfer pump, heater and electrical controls. With soil vapor extraction module for 100 cfm flow rate with vapor phase granular activated carbon vessel.		
		28.18.7.1 Daily		\$467
		28.18.7.2 Weekly		\$1,866
		28.18.7.3 Monthly		\$5,599
28.19	28.19.1	28.19 Turbine Meters - Combined totalizer and flow rate		
		28.19.1 1/2" Diameter Turbine Meter		
		28.19.1.1 Daily		\$35
	28.19.2	28.19.1.3 Monthly		\$105
		28.19.2 1" Diameter Turbine Meter		
	28.19.3	28.19.2.3 Monthly		\$105
		28.19.3 1 1/2" Diameter Turbine Meter		
	28.19.4	28.19.3.3 Monthly		\$111
		28.19.4 2" Diameter Turbine Meter		
28.20	28.20.1	28.19.4.3 Monthly		\$117
		28.20 10 Ton Vibratory Roller or equivalent		
		28.20.1 Daily		\$875
28.21	28.21.1	28.20.2 Weekly		\$3,499
		28.21 Portable Vibratory Plate Compactor		
		28.21.1 Daily		\$292
28.21	28.21.2	28.21.2 Weekly		\$1,166

**Appendix 3 Reimbursement Fee Schedule - Effective March 1, 2023**

TASKS			ITEM DESCRIPTION	UOM	MAXIMUM ALLOWED
28.22			Traffic Controls		
	28.22.1		Daily		\$875
	28.22.2		Weekly		\$4,374
	28.22.3		Monthly		\$18,371
	28.22.4		Fuel	At Cost	At Cost
	28.22.5		Delivery & Pick-up of Traffic Controls	Each	\$350
28.23			Electric or Pneumatic Submersible Pump Rental with Controls		
	28.23.1		Daily		\$58
	28.23.2		Weekly		\$233
	28.23.3		Monthly		\$700
28.24			Electric or Pneumatic Non-Aqueous Phase Liquid Pump Rental with Controls		
	28.24.3		Monthly		\$700
28.25			Air Sparging Compressor Rental with Controls up to 30 cfm @ 15 psi		
	28.25.3		Monthly		\$700
28.26			Air Sparging Compressor Rental with Controls up to 50 cfm @ 15 psi		
	28.26.2		Weekly		\$350
	28.26.3		Monthly		\$1,050
28.27			Asphalt/Concrete Cutting Saw, self-propelled (includes blade wear)	Per Day	\$525
28.28			Trench Box/Pneumatic Shoring (includes mobilization/demobilization)	At Cost	At Cost
28.29			Roll-off container (includes liner, cover, mobilization)	At Cost	At Cost

<b>29</b>			<b>MISCELLANEOUS MATERIALS</b> Includes allowable markup as applicable.		
29.1			Passive Skimmers/Absorbent Booms/Socks	At Cost	At Cost
29.2			Absorbent Pads	At Cost	At Cost
29.3			Drums, 55-Gallon (incl gaskets, bolts, seals, bungs, etc)	Each	\$135
29.4			Drums, 35-Gallons (incl gaskets, bolts, seals, bungs, etc)	Each	\$135
29.5			Drum Liners	Each	\$29
29.6			85-95 Gallon Overpack Drum	Each	\$313
29.7			Granular Absorbent (excludes activated carbon)	At Cost	At Cost
29.8			Barrier Tape	100'	\$7
29.9			Orange Safety Fence 30"-48" high with posts	100'	\$292
29.10			Hay Bales	Each	\$8
29.11			Poly sheeting for stockpile	At Cost	At Cost
29.12			Double-staked hay bale with silt fence, installed	per foot	At Cost
29.13			Straw wattle - 12-inch diameter, installed	per foot	At Cost
29.14			Replacement of damaged padlocks	At Cost	At Cost

<b>30</b>			<b>SALES TAX</b>		
30.1			State Sales Tax	At Cost	At Cost

<b>31</b>			<b>FREIGHT</b>		
31.1			Freight	At Cost	At Cost

			NOTE: Gaps in task code number sequencing indicates the missing task code has either been eliminated or reassigned.		
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