

# SCHEDULE OF COSTS

## WORK PERFORMED JANUARY 1 – DECEMBER 31, 2022

### MICHIGAN UNDERGROUND STORAGE TANK AUTHORITY



This document establishes a schedule of costs that itemizes corrective actions that are generally conducted at a site and lists an allowable reimbursement amount that may be paid for each corrective action as part of a claim under Part 215. Changes from previous Schedule are identified in **bold, red text**. See Accompanying Notes document for additional information.

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
<b>BF-1</b>	<b>Backfill</b>	Sand Transport, Placement, and Compaction (If not bid as part of soil excavation, transport, and disposal)	Ton	\$23.00
<b>BF-2</b>	<b>Backfill</b>	21AA Transport, Placement, and Compaction (If not bid as part of soil excavation, transport, and disposal)	Ton	\$26.00
<b>BF-3</b>	<b>Backfill</b>	Peastone Transport, Placement, and Compaction (If not bid as part of soil excavation, transport, and disposal)	Ton	\$28.00
<b>Bid-1</b>	<b>Required Competitive Bid Item</b>	Excavation, Transport, and Disposal of Contaminated Soils, Purchase and Compaction of Backfill (unless charged separately) that is not Performed as an Initial Response Action (Note 4)	Per Bid	Per Bid
<b>Bid-2</b>	<b>Required Competitive Bid Item (Note 2)</b>	Liquid recovery and disposal that is not Performed as an Initial Response Action (Note 4)	Per Bid	Per Bid
<b>Bid-3</b>	<b>Required Competitive Bid Item (Note 2)</b>	Purchase of Treatment System	Per Bid	Per Bid
<b>Bid-4</b>	<b>Required Competitive Bid Item (Note 2)</b>	Construction/Installation of Treatment System	Per Bid	Per Bid
<b>Bid-5</b>	<b>Required Competitive Bid Item (Note 2)</b>	Decommissioning of Treatment System	Per Bid	Per Bid
<b>Bid-6</b>	<b>Required Competitive Bid Item (Note 2)</b>	Water Supply Well Abandonment/Replacement	Per Bid	Per Bid

MUSTA -SCHEDULE OF COSTS FOR WORK PERFORMED JAN – DEC 2022

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
<b>Bid-7</b>	<b>Required Competitive Bid Item (Note 2)</b>	Drilling Services for Wells Exceeding 2 Inches in Diameter	Per Bid	Per Bid
<b>Bid-8</b>	<b>Required Competitive Bid Item (Note 2)</b>	Drilling in Bedrock Greater than 60 ft. bgs. per boring	Per Bid	Per Bid
<b>Bid-9</b>	<b>Required Competitive Bid Item (Note 2)</b>	Drilling in Unconsolidated Soils Greater than 60 ft. bgs. per boring	Per Bid	Per Bid
<b>Bid-10</b>	<b>Required Competitive Bid Item (Note 2)</b>	Sonic Drilling	Per Bid	Per Bid
<b>Bid-11</b>	<b>Required Competitive Bid Item (Note 2)</b>	Ultra Violet Optical Screening (And comparable technologies including Laser Induced Fluorescence, Hydraulic Profiling Tool, Membrane Interface Probe, Electrical Conductivity)	Per Bid	Per Bid
<b>Bid-12</b>	<b>Required Competitive Bid Item (Note 2)</b>	Mobile Laboratory Services	Per Bid	Per Bid
<b>Bid-13</b>	<b>Required Competitive Bid Item (Note 2)</b>	Repair or Replacement of Blacktop/Concrete Surface Cover (If not bid as part of an eligible and necessary corrective action activity)	Per Bid	Per Bid
<b>Bid-14</b>	<b>Required Competitive Bid Item (Note 2)</b>	Professional Surveyor Services exceeding \$2,000	Per Bid	Per Bid
<b>Bid-15</b>	<b>Required Competitive Bid Item (Note 2)</b>	Purchase, Construction, and Installation of Vapor Mitigation Systems (Passive or Active) <b>Includes installation of vapor barriers.</b>	Per Bid	Per Bid
<b>1-1</b>	<b>Consultant Labor (Note 3)</b>	Professional 4	Hour	\$145.00
<b>1-2</b>	<b>Consultant Labor (Note 3)</b>	Professional 3	Hour	\$110.00
<b>1-3</b>	<b>Consultant Labor (Note 3)</b>	Professional 2	Hour	NA
<b>1-4</b>	<b>Consultant Labor (Note 3)</b>	Professional 1	Hour	<b>\$90.00</b>
<b>1-5</b>	<b>Consultant Labor (Note 3)</b>	Technician 3	Hour	<b>\$80.00</b>
<b>1-6</b>	<b>Consultant Labor (Note 3)</b>	Technician 2	Hour	\$70.00

MUSTA -SCHEDULE OF COSTS FOR WORK PERFORMED JAN – DEC 2022

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
1-7	Consultant Labor (Note 3)	Technician 1	Hour	\$60.00
1-8	Consultant Labor (Note 3)	CAD Operator	Hour	<b>\$75.00</b>
1-9	Consultant Labor (Note 3)	Clerical/Administrative	Hour	\$57.00
2-1	Consultant Travel Expenses	Mileage	Mile	"IRS business standard mileage rate for the calendar year" rounded up to full cent
2-2	Consultant Travel Expenses	Hotel Costs	Night	Use Code 2-4
2-3		Meal Expense	Day	
2-4	Consultant Travel Expenses	Per Diem (Hotel + Meals) Per Diem requires overnight stay supported by hotel receipt. Pre-approval may be sought for areas of the state with higher than normal hotel rates. Meal receipts not required.	Day	\$160.00
3-1	Consultant Mark-Up of Subcontractor Invoices	Invoices up to \$50,000	%	10%
3-2	Consultant Mark-Up of Subcontractor Invoices	Invoices between \$50,000.01 and \$249,999.99	%	7%
3-3	Consultant Mark-Up of Subcontractor Invoices	Invoices equal to or greater than \$250,000	%	5%
3-4	<b>Consultant Mark-Up of Non-Subcontractor Expenses</b>	<b>Consultant markup on items not on the MUSTA Schedule of Costs, i.e. "NL". Includes postage, bonds, eligible permit related expenses, etc.</b>	%	<b>3%</b>
4-1	Equipment & Supplies	2 kW Generator	Day	<b>Use Code 4-3</b>
4-2	Equipment & Supplies	4-Gas meter with PID <b>Includes calibration kit, calibration gas, regulator.</b> (Cannot be charged in concurrence with a PID (4-28))	Day	\$120.00

**MUSTA -SCHEDULE OF COSTS FOR WORK PERFORMED JAN – DEC 2022**

<b>Code #</b>	<b>Task/Item Description</b>	<b>Activity Description</b>	<b>Unit</b>	<b>Maximum Allowed</b>
<b>4-2a</b>	<b>Equipment &amp; Supplies</b>	4-Gas meter with or without LEL <b>Includes calibration kit, calibration gas, regulator.</b>	Day	\$60.00
<b>4-3</b>	<b>Equipment &amp; Supplies</b>	<b>Up to 8.5 kW</b> Generator	Day	\$125.00
<b>4-4</b>	<b>Equipment &amp; Supplies</b>	Air Sampling Pump (variable flow)	Day	\$35.00
<b>4-5</b>	<b>Equipment &amp; Supplies</b>	Concrete Saw with Blade	Day	\$100.00
<b>4-6</b>	<b>Equipment &amp; Supplies</b>	Coring Machine	Day	\$165.00
<b>4-7</b>	<b>Equipment &amp; Supplies</b>	Electric Jackhammer with Bit	Day	\$115.00
<b>4-8</b>	<b>Equipment &amp; Supplies</b>	Encore Samplers	Each	<b>Not Eligible</b>
<b>4-9</b>	<b>Equipment &amp; Supplies</b>	Ferrous Iron Kits for Colorimeter	Each	\$20.00
<b>4-10</b>	<b>Equipment &amp; Supplies</b>	Flame Ionization Detector (FID) Includes calibration kit, cal. gas, regulator.	Day	\$170.00
<b>4-11</b>	<b>Equipment &amp; Supplies</b>	Item Removed - Should now be NL		
<b>4-12</b>	<b>Equipment &amp; Supplies</b>	Gas/Hydraulic Grout Pump	Day	\$300.00
<b>4-13a</b>	<b>Equipment &amp; Supplies</b>	Ground Penetrating Radar Equipment - Consultant only (Subcontractor refer to Code 5-30a)	1/2 Day	\$400.00
<b>4-13b</b>	<b>Equipment &amp; Supplies</b>	Ground Penetrating Radar Equipment - Consultant only (Subcontractor refer to Code 5-30b)	Day	\$600.00
<b>4-14</b>	<b>Equipment &amp; Supplies</b>	Groundwater Metals Filters	Each	\$15.00
<b>4-15</b>	<b>Equipment &amp; Supplies</b>	HACH Colorimeter	Day	\$40.00
<b>4-16</b>	<b>Equipment &amp; Supplies</b>	Hand Auger (Ineligible on dates where Direct Push or Drilling Activities occur.)	Day	\$30.00
<b>4-17</b>	<b>Equipment &amp; Supplies</b>	Hand Sediment Sampler (core-type)	Day	\$25.00
<b>4-18</b>	<b>Equipment &amp; Supplies</b>	Dedicated GPS Unit	Day	\$85.00

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<b>Code #</b>	<b>Task/Item Description</b>	<b>Activity Description</b>	<b>Unit</b>	<b>Maximum Allowed</b>
4-19	Equipment & Supplies	Hand-Held Magnetometer or Metal Detector	Day	\$35.00
4-20	Equipment & Supplies	Hand-Held Manometer (pressure gauge)	Day	\$35.00
4-21	Equipment & Supplies	LNAPL Skimmer Pump (down-well)	Day	\$100.00
4-22	Equipment & Supplies	Multi-Parameter Meter pH, ORP, Conductivity, Temperature, Flow Cell, and Cables	Day	\$160.00
4-23	Equipment & Supplies	Oil in Soil (NAPL shake test) Test Kits	Each	\$10.00
4-24	Equipment & Supplies	Oil/Water Interface Probe	Day	\$50.00
4-25	Equipment & Supplies	Particulate Meter	Day	\$100.00
4-26	Equipment & Supplies	Peristaltic Pump	Day	<b>\$40.00</b>
4-27	Equipment & Supplies	pH Meter	Day	\$25.00
4-28	Equipment & Supplies	Photoionization Detector (PID) Includes calibration kit, calibration gas, regulator. Cannot be charged in conjunction with a 4-gas meter with PID (4-2).	Day	\$100.00
4-29	Equipment & Supplies	Pressure Washer (cold-water)	Day	\$125.00
4-30	Equipment & Supplies	Pressure Washer (hot-water)	Day	\$200.00
4-31	Equipment & Supplies	Smoke-Testing Equipment	Day	\$125.00
4-32	Equipment & Supplies	Static Water Tape	Day	\$30.00
4-33	Equipment & Supplies	Submersible Pump (down-well)	Day	\$35.00
4-34	Equipment & Supplies	Submersible Sampling Pump w/ Voltage Regulator	Day	\$100.00
4-35	Equipment & Supplies	Soil Gas Sampling Equipment Includes shroud, helium regulator, helium, helium detector, flow meter, pumps, <b>connection tubing, T-connectors, valves, and connectors.</b>	Day	\$200.00
4-36	Equipment & Supplies	Support Vehicle	Day	\$75.00

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<b>Code #</b>	<b>Task/Item Description</b>	<b>Activity Description</b>	<b>Unit</b>	<b>Maximum Allowed</b>
<b>4-37</b>	<b>Equipment &amp; Supplies</b>	Survey Scope and Rod or Rotary Laser Level with Receiver	Day	\$75.00
<b>4-38</b>	<b>Equipment &amp; Supplies</b>	Total Station Survey Equipment	Day	\$150.00
<b>4-39</b>	<b>Equipment &amp; Supplies</b>	Turbidity Meter	Day	\$35.00
<b>4-40</b>	<b>Equipment &amp; Supplies</b>	Utility Wand	Day	<b>\$25.00</b>
<b>4-41</b>	<b>Equipment &amp; Supplies</b>	Water Traps for PID	Each	\$5.00
<b>4-42</b>	<b>Equipment &amp; Supplies</b>	All miscellaneous field supplies and tools of the trade including but not limited to: baggies, brooms, circular saws, power inverters, decontamination detergent, extension cords, field books, garbage bags, general office supplies, gloves, hammers, hand saws, ice, Level D personal protective equipment, measuring wheels, paper towel, pliers, power drills, rakes, reciprocating saws, scissors/utility knives, screwdrivers, shop vac, string/rope, saber saws, tape measures, taps, shovels, water for decontamination, water for QA/QC blanks, and related and/or similar items.	Day/Site	\$30.00
<b>4-43</b>	<b>Equipment &amp; Supplies</b>	Concrete Hammer Drill with Bit (only)	Day	\$60.00
<b>4-44</b>	<b>Equipment &amp; Supplies</b>	Sorbent Socks	Each	\$5.00
<b>4-45</b>	<b>Equipment &amp; Supplies</b>	Sorbent Pads	Each	\$2.50
<b>4-46</b>	<b>Equipment &amp; Supplies</b>	Meter - Methane, Carbon Dioxide, Oxygen (e.g. GEM 2000 meter)	Day	\$150.00
<b>4-47</b>	<b>Equipment &amp; Supplies</b>	HEPA vacuum for use during indoor concrete drilling	Day	\$50.00
<b>5-1</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	1" 10-slot PVC well screen (5' section)	Each	<b>\$26.00</b>
<b>5-2</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	1" Lockable well caps (j-plugs)	Each	\$10.00
<b>5-3</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	1" poly bailers	Each	\$12.00

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<b>Code #</b>	<b>Task/Item Description</b>	<b>Activity Description</b>	<b>Unit</b>	<b>Maximum Allowed</b>
<b>5-4</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	1" PVC well points	Each	<b>\$15.00</b>
<b>5-5</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	1" PVC well riser (5' section)	Each	<b>\$19.00</b>
<b>5-6</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	1" 20-slot PVC well screen (10' section)	Each	<b>\$26.00</b>
<b>5-7</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	1" 20-slot PVC well screen (5' section)	Each	<b>\$19.00</b>
<b>5-8</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	12" Cover	Each	\$150.00
<b>5-9</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	2" 20-slot PVC well screen (5' section)	Each	<b>\$32.00</b>
<b>5-10</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	2" 10-slot PVC well screen (5' section)	Each	<b>\$32.00</b>
<b>5-11</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	2" Lockable well caps (j-plugs)	Each	<b>\$19.00</b>
<b>5-12</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	2" poly bailers	Each	\$15.00
<b>5-13</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	2" PVC well points	Each	<b>\$19.00</b>
<b>5-14</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	2" PVC well riser (10' section)	Each	<b>\$32.00</b>
<b>5-15</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	2" PVC well riser (5' section)	Each	<b>\$24.00</b>
<b>5-16</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	4" Square Stick Up	Each	\$150.00
<b>5-17</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	7" Monitoring Well Manhole/Flushmount	Each	<b>\$70.00</b>

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<b>Code #</b>	<b>Task/Item Description</b>	<b>Activity Description</b>	<b>Unit</b>	<b>Maximum Allowed</b>
<b>5-18</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	9" Monitoring Well Manhole/Flushmount	Each	<b>\$85.00</b>
<b>5-19</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Asphalt cold patch (50 lb. bag)	Each	<b>\$20.00</b>
<b>5-20</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Auger plugs (4.25")	Each	<b>\$15.00</b>
<b>5-21</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Bagged concrete (80 lb. bag)	Each	\$9.00
<b>5-22</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Bentonite Chips (50 lb. bag)	Each	<b>\$20.00</b>
<b>5-23</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Bentonite Gel (Powder) (50 lb. bag)	Each	\$20.00
<b>5-24</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Bentonite Granular (50 lb. bag)	Each	<b>\$20.00</b>
<b>5-25</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Drum, 55 gal. DOT steel	Each	<b>\$70.00</b>
<b>5-26</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Filter sand/gravel (50 lb. bag)	Each	<b>\$13.00</b>
<b>5-27</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Padlock	Each	\$16.00
<b>5-28a</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Poly tubing (0.375") - Various Types	Foot	\$0.35
<b>5-28b</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Silicone Tubing - Various Types (i.e. Master Flex)	Foot	\$6.50
<b>5-28c</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Teflon Tubing - Various Vapor Sampling Types	Foot	\$3.00
<b>5-29</b>	<b>Misc. Drilling Activities &amp; Supplies</b>	Portland cement (94 lb. bag)	Each	<b>\$18.00</b>



Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
5-30a	Misc. Drilling Activities & Supplies	Private Utility Location 1/2 Day - Subcontractor (mileage separate - Code 2-1) Inclusive of all equipment typical of the trade including, <u>but not limited to</u> , ground penetrating radar, magnetic and electromagnetic, and frequency location equipment, etc. Includes magnetometer, metal detector, utility wand.	1/2 Day	<b>\$850.00</b>
5-30b	Misc. Drilling Activities & Supplies	Private Utility Location Full Day - Subcontractor (mileage separate - Code 2-1) Inclusive of all equipment typical of the trade, including, <u>but not limited to</u> , ground penetrating radar, magnetic and electromagnetic, and frequency location equipment, etc. Includes magnetometer, metal detector, utility wand.	Day	<b>\$1,500.00</b>
5-31	Misc. Drilling Activities & Supplies	See 5-31a		
5-31a	Misc. Drilling Activities & Supplies	Screw on Stainless Steel or Brass Flush Mount Vapor Pin Cover	Each	<b>\$40.00</b>
5-32	Misc. Drilling Activities & Supplies	Vapor Point/Sub Slab Pin Includes Sleeve, Sealing Cap, O-Ring, Slip on Plastic Flush Mount Cover.  <b>*Screens for exterior soil gas monitoring points should be identified as NL.</b>	Each	\$70.00
5-33	Misc. Drilling Activities & Supplies	Direct Push Sample Liners - 2.12" x 5'	Each	<b>\$8.00</b>

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
6-1	Direct Push	<p>1/2 Day with Operator.</p> <ul style="list-style-type: none"> <li>- Includes labor to clear borings with hand auger and miscellaneous supplies and tools of the trade similar to those listed under Code 4-42.</li> <li>- Inclusive of all equipment including, but not limited to, generator, concrete saw w/ blade, jackhammer w/ bit, coring machine, hammer drill w/ bit, hand auger, pumps, pressure washer, etc.</li> <li>- Excludes expendable materials.</li> <li>- Drillers assistant may be billed at the Technician 1 (1-7) Labor Rate.</li> <li>- Codes 7-1 and 8-1 are not eligible for reimbursement when augers are advanced with a direct push rig.</li> </ul>	1/2 Day	\$1,000.00
6-2	Direct Push	<p>Full Day with Operator.</p> <ul style="list-style-type: none"> <li>- Includes labor to clear borings with hand auger and miscellaneous supplies and tools of the trade similar to those listed under Code 4-42.</li> <li>- Inclusive of all equipment including, but not limited to, generator, concrete saw w/ blade, jackhammer w/ bit, coring machine, hammer drill w/ bit, hand auger, pumps, pressure washer, etc.</li> <li>- Excludes expendable materials.</li> <li>- Drillers assistant may be billed at the Technician 1 (1-7) Labor Rate.</li> <li>- Codes 7-1 and 8-1 are not eligible for reimbursement when augers are advanced with a direct push rig.</li> </ul>	Day	\$1,800.00
6-3a	Direct Push	Expendable Drive Point for Water Sampling	Each	\$7.00
6-3b	Direct Push	Expendable Drive Point for Well Drilling	Each	\$40.00
6-4	Direct Push	<p>Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (0 - 100 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b></p>	Each	\$200.00

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
6-5	Direct Push	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (101 - 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$425.00
6-6	Direct Push	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (greater than 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Mile	\$1.70
7-1	Drilling in Bedrock	0 - 60' bgs per boring (greater than 60' bgs requires bidding) Rate includes driller helper and labor to clear borings with hand auger. Includes miscellaneous supplies and tools of the trade similar to those listed under Code 4-42. Includes all equipment including, but not limited to, generator, concrete saw w/ blade, jackhammer w/ bit, coring machine, hammer drill w/ bit, hand auger, grout and development pumps, pressure washer, etc. Excludes expendable materials.	Foot	\$60.00
7-2	Drilling in Bedrock	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (0 - 100 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$500.00
7-3	Drilling in Bedrock	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (101 - 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$1,000.00

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
7-4	Drilling in Bedrock	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (greater than 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Mile	\$4.00
8-1	Drilling in Unconsolidated Soils - With Soil Sampling (HSA)	0 - 60' bgs per boring (greater than 60' bgs requires bidding) Rate includes driller helper and labor to clear borings with hand auger. Includes miscellaneous supplies and tools of the trade similar to those listed under Code 4-42. Includes all equipment including, but not limited to, generator, concrete saw w/ blade, jackhammer w/ bit, coring machine, hammer drill w/ bit, hand auger, grout and development pumps, pressure washer, etc. Excludes expendable materials.	Foot	\$50.00
8-2	Drilling in Unconsolidated Soils - With Soil Sampling (HSA)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (0 - 100 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$250.00
8-3	Drilling in Unconsolidated Soils - With Soil Sampling (HSA)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (101 - 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$500.00
8-4	Drilling in Unconsolidated Soils - With Soil Sampling (HSA)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (greater than 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Mile	\$2.00

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
9-1	Limited Source Removal of Soils Performed as Initial Response (Note 4)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (0 - 100 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$500.00
9-2	Limited Source Removal of Soils Performed as Initial Response (Note 4)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (101 - 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$1,000.00
9-3	Limited Source Removal of Soils Performed as Initial Response (Note 4)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (greater than 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Mile	\$4.00
9-4	Limited Source Removal of Soils Performed as Initial Response (Note 4)	Excavation, Transport, and Disposal of more than 50 total tons of eligible soils. Includes securing all necessary permits/approvals. Not eligible in conjunction with Code 9-4a.  <b>*All subcontractor and landfill charges must be invoiced on a single MUSTA invoice (i.e. excavation/transport charges should not be invoiced on one MUSTA invoice and landfill charges on a subsequent MUSTA invoice).</b>	Ton	\$45.00
9-4a	Limited Source Removal of Soils Performed as Initial Response (Note 4)	Excavation, Transport, and Disposal of not greater than 50 total tons of eligible soils. Includes securing all necessary permits/approvals. Not eligible in conjunction with 9-4.  <b>*All subcontractor and landfill charges must be invoiced on a single MUSTA invoice (i.e. excavation/transport charges should not be invoiced on one MUSTA invoice and landfill charges on a subsequent MUSTA invoice).</b>	Event	\$2,250.00

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
9-5	Limited Source Removal of Contaminated Liquid Performed as Initial Response (Note 4)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (0 - 100 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$250.00
9-6	Limited Source Removal of Contaminated Liquid Performed as Initial Response (Note 4)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (101 - 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$500.00
9-7	Limited Source Removal of Contaminated Liquid Performed as Initial Response (Note 4)	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (greater than 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Mile	\$2.00
9-8	Limited Source Removal of Contaminated Liquid Performed as Initial Response (Note 4)	Recovery, Transport, and Disposal of more than 1,000 total gallons of eligible liquids Not eligible in conjunction with Code 9-8a	Gallon	\$0.60
9-8a	Limited Source Removal of Contaminated Liquid Performed as Initial Response (Note 4)	Recovery, Transport, and Disposal of not greater than 1,000 total gallons of eligible liquids Not eligible in conjunction with 9-8.	Event	\$600.00
10-1	Waste Disposal	Drill Cuttings Includes loading, transportation, disposal, and preparation of manifest(s).	Drum	\$200.00
10-2	Waste Disposal	Groundwater Sample and/or Purge Water Includes loading, transportation, disposal, and preparation of manifest(s).	Drum	\$200.00
10-3	Waste Disposal	Non-Aqueous Phase Liquid (NAPL) Includes loading, transportation, disposal, and preparation of manifest(s).	Drum	\$300.00

Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
10-4	Waste Disposal	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (0 - 100 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$125.00
10-5	Waste Disposal	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (101 - 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Each	\$250.00
10-6	Waste Disposal	Primary Mob/Demob <b>From Shop to Site / Site to Shop</b> (greater than 250 miles round trip) <b>Mobilization/demobilization shall include all activities and associated costs for preparation, loading, and transportation of contractor's personnel, equipment, and operating supplies to and from the site.</b>	Mile	\$1.00
11-1	Laboratory Analysis-Soils (Method 8260B)	BTEX, MTBE, TMB	Sample	Use Code 11-4
11-2	Laboratory Analysis-Soils (Method 8270C)	Polynuclear Aromatic Hydrocarbons (PNAs) or Polyaromatic Hydrocarbons (PAHs)	Sample	\$80.00
11-3	Laboratory Analysis-Soils (Method 8260B)	Volatile Organic Compounds (VOCs)	Sample	\$82.00
11-4	Laboratory Analysis-Soils (Method 8260B)	MDEQ Unleaded Gasoline Parameters	Sample	\$60.00
11-5	Laboratory Analysis-Soils (Method 8015B)	Gasoline Range Organics (GRO)	Sample	\$60.00
11-6	Laboratory Analysis-Soils (Method 8015B)	Diesel Range Organics (DRO) and Oil Range	Sample	\$70.00
11-7	Laboratory Analysis-Soils (Method 8082A)	Polychlorinated Biphenyls (PCBs)	Sample	\$65.00

**MUSTA -SCHEDULE OF COSTS FOR WORK PERFORMED JAN – DEC 2022**

<b>Code #</b>	<b>Task/Item Description</b>	<b>Activity Description</b>	<b>Unit</b>	<b>Maximum Allowed</b>
<b>11-8</b>	<b>Laboratory Analysis-Soils (Method Walkley-Black Modified)</b>	Fraction of Organic Carbon (FOC)	Sample	\$65.00
<b>11-9</b>	<b>Laboratory Analysis-Soils (6000 Series)</b>	Cadmium, Chromium, and Lead (Includes sample prep)	Sample	\$45.00
<b>11-10</b>	<b>Laboratory Analysis-Soils (6000 Series)</b>	Michigan 10 Metals (Includes sample prep)	Sample	\$105.00
<b>11-11</b>	<b>Laboratory Analysis-Soils (Method 1311)</b>	Toxicity Characteristic Leaching Procedure (TCLP)	Sample	\$75.00
<b>11-12</b>	<b>Laboratory Analysis-Soils (Method 1312)</b>	Synthetic Precipitation Leaching Procedure (SPLP)	Sample	\$75.00
<b>11-13</b>	<b>Laboratory Analysis - Soil</b>	Lead or other single metal (Includes sample prep)	Sample	\$25.00
<b>11-14</b>	<b>Laboratory Analysis - Soils</b>	MDEQ Leaded VOC Parameters	Sample	\$65.00
<b>12-1</b>	<b>Laboratory Analysis-Water (Method 8260B)</b>	BTEX, MTBE, TMB	Sample	Use Code 12-4
<b>12-2</b>	<b>Laboratory Analysis-Water (Method 8270C)</b>	Polynuclear Aromatic Hydrocarbons (PNAs) or Polyaromatic Hydrocarbons (PAHs)	Sample	\$80.00
<b>12-3</b>	<b>Laboratory Analysis-Water (Method 8260B)</b>	Volatile Organic Compounds (VOCs)	Sample	\$70.00
<b>12-4</b>	<b>Laboratory Analysis-Water (Method 8260B)</b>	MDEQ Unleaded Gasoline Parameters	Sample	\$60.00
<b>12-5</b>	<b>Laboratory Analysis-Water (Method 8015B)</b>	Gasoline Range Organics (GRO)	Sample	Not Eligible
<b>12-6</b>	<b>Laboratory Analysis-Water (Method 8015B)</b>	Diesel Range Organics (DRO) and Oil Range Organics (ORO)	Sample	Not Eligible
<b>12-7</b>	<b>Laboratory Analysis-Water (Method 8082A)</b>	Polychlorinated Biphenyls (PCBs)	Sample	\$65.00



Code #	Task/Item Description	Activity Description	Unit	Maximum Allowed
<b>12-8</b>	<b>Laboratory Analysis-Water (6000 Series)</b>	Cadmium, Chromium, and Lead (Includes sample prep)	Sample	\$45.00
<b>12-9</b>	<b>Laboratory Analysis-Water (6000 Series)</b>	Michigan 10 Metals (Includes sample prep)	Sample	\$105.00
<b>12-10</b>	<b>Laboratory Analysis - Water</b>	Lead or other single metal (Includes sample prep)	Sample	\$15.00
<b>12-11</b>	<b>Laboratory Analysis - Water</b>	MDEQ Leaded VOC Parameters	Sample	\$65.00
<b>13-1</b>	<b>Sampling/Lab Analysis</b>	Methanol Kit (Included in applicable laboratory analysis cost)	Each	Not Eligible
<b>13-2</b>	<b>Laboratory Analysis - Air/Soil Gas</b>	TO-15 Includes Summa Canister/Bottle Vac, Regulator Rental, Cleaning Fee.	Sample	\$250.00
<b>13-3</b>	<b>Laboratory Charge</b>	Disposal of Held Samples Disposal of analyzed samples is included in the sample analysis rate.	Chain-of-Custody	\$5.00

**PROGRAM CONTACT INFORMATION:**

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