SCS ENGINEERS

October 5, 2018 File No. 25216050.00

Mr. John Hnat Wisconsin Department of Natural Resources 2300 N Dr. Martin Luther King Jr Dr. Milwaukee, WI 53212

Subject: PECFA Change Order Request Former Mobil Station 05-H4A PECFA #53222-1435-22A BRRTS #03-41-095653

Dear Mr. Hnat:

We have reviewed your August 14, 2018, letter response to the September 2016 Revised Remedial Action Options Plan and Remedial Design Report and are providing this Petroleum Environmental Cleanup Fund Award (PECFA) budget for additional work required with your letter. This change order request provides a scope and estimated PECFA costs for the following work:

- Preparing change order request (this letter)
- Pressure field extension testing to evaluate effectiveness of existing vapor mitigation systems
- Sub-slab sampling to evaluate current sub-slab vapor concentrations
- Indoor air and outdoor background air sampling to evaluate current indoor air quality
- Construction and operation of a soil vapor extraction (SVE) system
- Post-SVE groundwater monitoring

CHANGE ORDER REQUEST (VARIANCE)

Costs for preparation of this change order request are requested as a variance to the Usual and Customary Cost Schedule (UCCS) as it has taken additional effort beyond what is typically required for a UCCS change order item, and much of the costs are based on variances to the UCCS.

PRESSURE FIELD EXTENSION TESTING (VARIANCE)

SCS Engineers (SCS) will perform the following work to evaluate the effectiveness of both the perimeter drain tile venting system (DTVS) and the interior sub-slab depressurization mitigation system (SSDMS) at Grace to include:

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- Review the available systems construction documentation
- Communicate with and arrange access for the testing with Grace
- Inspect the DTVS, SSDMS, and the two basement sumps
- Test to make sure the two basement sumps are properly sealed
- Install up to 16 vacuum observation points. The points will be installed in 2-inch-diameter holes drilled through the basement floor. A stainless steel Vapor PinTM will be sealed inside each hole, flush with the floor, and capped with a stainless steel cap.
- Measure sub-slab vacuum distribution at vacuum observation points under the following scenarios:
 - DTVS and SSDMS on
 - DTVS and SSDMS off
 - DTVS on with SSDMS off
 - SSDMS on with DTVS off

SUB-SLAB SAMPLING (VARIANCE)

With approval from Grace, SCS will shut down both the DTVS and the SSDMS for approximately 1 week. After approximately 1 week with the systems off, SCS will conduct sub-slab sampling at the 6 of the 16 vacuum observation points noted above. The samples will be collected consistent with Wisconsin Department of Natural Resources (WDNR's) January 2018 RR-800 vapor intrusion guidance document and analyzed for benzene, ethylbenzene, methyl tert-butyl ether (MTBE), toluene, trimethylbenzenes, xylenes, and naphthalene via laboratory method TO-15.

INDOOR AIR SAMPLING (VARIANCE)

SCS will collect three ambient air samples at Grace during the above-noted sub-slab sampling. The samples will be collected consistent with RR-800 guidance from the ground floor, basement, and outdoor (background) air. The samples will be analyzed for benzene, ethylbenzene, MTBE, toluene, trimethylbenzenes, xylenes, and naphthalene via laboratory method TO-15.

The vapor mitigation systems will be turned back on following the indoor air sampling.

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SVE SYSTEM CONSTUCTION, OPERATION, MONITORING, AND MAINTENANCE (UCCS AND VARIANCE)

A SVE system will be installed in an area of residual soil and groundwater contamination on the PSK property located north of the underground storage tanks (USTs) and beneath the sidewalk north of the car wash building in the utility corridor. The SVE system will serve to remove contaminant mass in the unsaturated zone in these areas, to increase the attenuation capacity of the soil, and potentially decrease the leaching of contaminates from soil to groundwater. The system will be operated for 6 months following startup.

SVE System Construction

Monitoring well MW-21 will be modified to serve as a joint soil vapor extraction well (MW21/SVE-2) and a groundwater monitoring well. Well MW-21 is located north of the car wash building in the sidewalk along Sarasota Place. MW-21 has a 2-inch-diameter PVC casing and well screen that extends from 5 feet below ground surface (bgs) to 15 feet bgs. The existing sidewalk will be removed around the well, and soil excavated to expose the 2-inch PVC casing. A 2-inch PVC tee fitting will be installed on the casing at a depth of 3 feet bgs. A 2-inch PVC horizontal pipe will be installed to the tee fitting and run to the foundation of the car wash building, where a 2-inch PVC 90 degree elbow will be added, and the piping run vertically along the outside of the building to the roof. Piping will run aboveground along the wall of the car wash building. An explosion-proof electric blower will be installed to remove soil vapors from the subsurface around MW-21/SVE-2.

At the monitoring well, a 2-inch PVC vertical pipe will be added to the top of the tee fitting. An expandable well plug will be used to seal the well. The well cover and the concrete sidewalk will be restored. This modification will allow MW-21/SVE-2 to continue to be used for groundwater sampling, as needed. A drawing showing the modification to MW-21 is included on Figure 5 of the Remedial Action Options Plan and Remedial Design Report.

Proposed soil vapor extraction well SVE-1 will be located in the northwest corner of the site in an area of residual impacts. SVE-1 will be installed using conventional drilling equipment and will extend to a depth of 15 feet bgs. The well will be made of 3-inch-diameter PVC and will have a 10-foot well screen. The well will be finished with a flush-mount well cover and a PVC tee fitting. PVC piping will be installed underground from the tee fittings at SVE-1 to a small enclosure located near the northwest corner of the car wash building. The SVE piping will run horizontally to an enclosure, and an SVE blower for each SVE well located within a single enclosure located in the landscaped area near the northeast corner of the car wash building.

Samples will be collected from the soil vapor extraction system exhaust to determine if an air permit is necessary for operation of the system. Sample results will be submitted to the WDNR and, as appropriate, an air permit application will be prepared.

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Soil generated from installation of the soil vapor extraction system will be handled in accordance with the Material Management Plan included in Appendix C of the Remedial Action Options Plan and Remedial Design Report.

SVE System Operation, Monitoring, and Maintenance

The soil vapor extraction system at wells MW-21/SVE-2 and SVE-1 will have separate blowers. Samples from the exhaust of the blowers will be obtained for analysis for volatile organic compounds (VOCs). Sampling will be consistent with the WDNR *Guidance for Design, Installation, and Operation of Soil Venting Systems* (WDNR PUB-RR-185) dated June 2002. System exhaust sampling and negative pressure measurements will be performed daily for the first 3 days of operation, weekly for the next 3 weeks, then monthly. Samples will be obtained using a sampling pump and carbon tubes. Samples will be analyzed for VOCs. The flow rate of the system will also be measurements will be made at existing vapor probes (VP-1 through VP-4) and monitoring wells MW-1, MW-2, MW-3, MW-7, MW-20, MW-21/SVE-2, and SVE-1, as appropriate for measuring the area of influence.

The WDNR Remediation Site Operation, Maintenance, Monitoring & Optimization Report (Form 4400-194) will be completed for the soil vapor extraction system at wells MW-21 and SVE-1 and submitted to the WDNR. The total mass of the gasoline range organics extracted from the SVE system will be calculated over time. When the rate of contaminant mass removal diminishes, or plateaus, the system will be considered for shut down, subject to WDNR approval.

POST SVE GROUNDWATER MONITORING (UCCS)

SCS will perform two rounds of post-SVE groundwater monitoring for monitoring wells MW1, MW2, MW3, MW5, MW7, MW20, MW21, and the groundwater sump at PECFA UCCS rates. During each event, water levels will be measured at all site wells, and samples will be collected from the above-noted wells and sump. The samples will be analyzed for petroleum volatile organic compounds (PVOCs). Purge water from the sampling events will be properly disposed.

REPORTING (UCCS)

A report summarizing the pressure field extension testing, sub-slab sampling, and indoor/outdoor air sampling will be submitted to the WDNR as an addendum (letter report addendum) to the Remedial Action Options Plan and Remedial Design Report. The report will include the following:

- Summary of methods and findings
- Recommendation for mitigation system modifications, if appropriate
- Map(s) showing sample locations
- Tabulated vacuum and analytical results

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• Laboratory reports

SCS will submit a separate budget request with design details for vapor mitigation system modifications, if appropriate. Post-SVE groundwater sampling results will be submitted under separate cover with findings from SVE operation.

ESTIMATED PROJECT COSTS

We estimate a PECFA cost of \$69,512.29 per the attached UCCS. Additional details regarding costs requested as a Variance to the UCCS are provided in the attached SCS cost spreadsheet. The estimated PECFA-eligible project cost is \$17,378.07 or 25 percent of the above-noted PECFA cost, based on the WDNR's December 17, 2014 Cost Separation Methodology letter.

Please contact Ray Tierney at (608) 216-7332 if you have any questions concerning this budget request.

Sincerely,

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Ray Tierney Vice President SCS ENGINEERS

Robert E Sang I

Robert E. Langdon Senior Project Manager SCS ENGINEERS

REL/AJR/RT

cc: Lee Delcore, WDNR
Thomas A. Cabush, Kasdorf, Lewis & Swietlik S.C.
David G. Peterson, Reinhart Boerner Van Deuren s.c.
Donald P. Gallo, Axley Brynelson, LLP
Jagdisher Singh Kler, PSK Investments

Enclosures: UCCS Spreadsheet SCS Cost Estimate Spreadsheet for Variance Costs

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Usual and Customary Standardized Invoice #24 July 2018- December 2018



| PECFA #: | 53222-1435-22-A | Vendor Name: | SCS Engineers | | |
|---------------|----------------------------------|---------------|---------------|--------------------------|-----------|
| BRRTS #: | 03-41-095653 | Invoice #: | Change Order | U&C Total \$ | 10,842.29 |
| Site Name: | Mobil Oil Gas Station 05-H4A | Invoice Date: | | Variance to U&C Total \$ | 58,670.00 |
| Site Address: | 9922 W. Capitol Drive, Milwaukee | Check #: | | Grand Total \$ | 69,512.29 |
| | | | | | |

| TASK | TASK DESCRIPTION | SERVICES | ACTIVITY CODE | ACTIVITY REFERENCE CODE DESCRIPTION | UNIT | P | MAX UNIT COST | UNITS | TOTAL MAX |
|------|---|------------|------------------|---|--------|----|------------------|-------|--------------|
| 1 | GW Sampling | | GS05 | Sample Collection | Well | \$ | 72.45 | 16 \$ | 1,159.20 |
| 1 | GW Sampling | | GS25 | Primary Mob/Demob | Site | \$ | 628.11 | 2\$ | 1,256.22 |
| 2 | O & M Reporting | | OMR05 | Semi-Annual GW Monitoring (Form 4400-194) | Report | \$ | 823.73 | 2\$ | 1,647.46 |
| 4 | Waste Disposal | Consultant | WD05 | Consultant Coordination | Site | \$ | 137.13 | 2\$ | 274.26 |
| 4 | Waste Disposal | Commodity | WD10 | GW Sample and/or Purge | Drum | \$ | 42.11 | 4 \$ | 168.44 |
| 4 | Waste Disposal | Commodity | WD15 | Drill Cuttings | Drum | \$ | 108.15 | 2 \$ | 216.30 |
| 4 | Waste Disposal | Commodity | WD25 | Primary Mob/Demob | Site | \$ | 287.70 | 3\$ | 863.10 |
| 6 | Letter Report/Addendum | | LRA05 | Letter Report/Addendum | Letter | \$ | 1,039.29 | 1 \$ | 1,039.29 |
| 13.a | Drilling In Unconsolidated Soils - With Soil Sampling | Consultant | DR10 | 26 - 50 ft bgs | Ft | \$ | 5.67 | 15 \$ | 85.05 |
| 13.e | Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling | Commodity | DR60 | Drilling in Unconsolidated Soils | Ft | \$ | 11.97 | 15 \$ | 179.55 |
| 14 | Monitoring Well Installation | Consultant | MWI05 | 0 - 25 ft bgs | Ft | \$ | 3.89 | 15 \$ | 58.35 |

| TASK | TASK DESCRIPTION | SERVICES | ACTIVITY CODE | ACTIVITY REFERENCE CODE DESCRIPTION | UNIT | MAX UNIT COST | UNITS | | TOTAL MAX |
|----------|--|-----------------|------------------|--|--------------|------------------|-------|-------|--------------|
| 14 | Monitoring Well Installation | Commodity | MWI15 | 2 inch PVC Casing | Ft | \$ 16.70 | | 15 \$ | 250.50 |
| 15 | Misc. Drilling Activities & Supplies | | MDT05 | Drill Rig Mob/Demob | Mob/Demob | \$ 963.38 | | 1\$ | 963.38 |
| 15 | Misc. Drilling Activities & Supplies | | MDT10 | Well Cover/flushmount | Each | \$ 202.65 | | 1\$ | 202.65 |
| 15 | Misc. Drilling Activities & Supplies | | MDT21 | Drum, 55 gal. DOT steel | Each | \$ 55.13 | | 2\$ | 110.26 |
| 15 | Misc. Drilling Activities & Supplies | | MDT41 | Private Utility Locate | ACTUAL COST | \$ 300.00 | | 1\$ | 300.00 |
| 33 | Schedule Of Laboratory Maximums | Commodity | | Laboratory (see task 33 total on Lab Schedule) | Lab Schedule | | | \$ | 2,068.28 |
| Variance | Change Order Request | | | * | | | | \$ | 1,660.00 |
| Variance | Pressure Field Extension Testing | | | | | | | \$ | 8,650.00 |
| Variance | Sub-Slab Sampling | | | | | | | \$ | 3,120.00 |
| Variance | Indoor Air Sampling | | | | | | | \$ | 2,040.00 |
| Variance | SVE System Construction, Operation, Mo | nitoring, and M | aintenance | | | | | \$ | 43,200.00 |

Usual and Customary Standardized Invoice #24 July 2018- December 2018



RR-100A

| | | TOTAL LAB CHARG | ES \$ 2,068.28 | | TASK 33 | 40 | \$ 2,068.28 | TASK 24 | 0 | \$ - |
|--------|----------|--|----------------|----|----------|-------------|-------------|----------|---------|-------|
| MATRIX | REF CODE | REIMBURSABLE ANALYTE | UNITS | | MAX COST | SAMPLES | TOTAL | MAX COST | SAMPLES | TOTAL |
| AIR | A4 | VOC's | SAMPLE | \$ | 71.93 | 22 | \$ 1,582.46 | 3315 | | |
| WATER | W2 | PVOC | SAMPLE | \$ | 26.99 | 18 | \$ 485.82 | | | |
| LNAPL | LFPS01 | Interfacial tension III (water/air) [dyne/cm]) | SAMPLE | \$ | 561.33 | | \$- | | | |
| | | | | - | TAS | SK 33 TOTAL | \$ 2,068.28 | • | | |

Cost Estimate - SCS Engineers KJG/Grace Variance Costs SCS Project No. 25216050.00

| | Project | Project | Senior Project | Staff | Field | Designer/ | A during A cod | | | | | | Task Total Rounded to |
|---|-------------------|------------------|-----------------------|-----------------------|-----------------------|------------------|--------------------|-------------|------------------------|----------------|----------|------------------------|--------------------------|
| Task Description | Director \$194 | Manager \$153 | Professional \$122 | Professional \$108 | Professional \$102 | CAD Tech \$82 | Admin Asst \$70 | Total Hours | Subtotal | Exp | Subs | Total | Kounded fo \$10 |
| Task Description Task 1 – Change Order Request | | \$155 | \$122 | \$108 | \$102 | 30Z | \$70 | Total Hours | Suprotal | Exp | 3005 | Total | \$10 |
| Prepare change order | 2 | 6 | | 2 | | | 2 | 12 | \$1,662 | | | \$1,662 | |
| | 2 | 0 | | 2 | | | 2 | 0 | \$0 | | | \$0 | |
| Subtotal | 2 | 6 | 0 | 2 | 0 | 0 | 2 | 12 | \$1,662 | \$0 | \$0 | \$1,662 | \$1,6 |
| | | | - | | - | - | _ | | Ţ., | +- | +- | + - / | +-,- |
| Task 2 – Pressure Field Extension Testing | | | | | | | | 0 | \$0 | | | \$0 | |
| Review files | | | 4 | | | | 1 | 5 | \$558 | | | \$558 | |
| Coordinate with Grace | 1 | 4 | | | | | | 5 | \$806 | | | \$806 | |
| Inspect DTVS, SSDS, and basement sumps | | 2 | | | 8 | | | 10 | \$1,122 | | | \$1,122 | |
| Test sumps | | | | | 1 | | | 1 | \$102 | | | \$102 | |
| Install 16 sub-slab points | | 2 | | | 12 | | 1 | 15 | \$1,600 | | | \$1,600 | |
| Measure vacuum distribution under following scenarios | | | | | | | | 0 | \$0 | | | \$0 | |
| DTVS and SSDMS on | | 0.5 | | | 6 | | | 6.5 | \$689 | | | \$689 | |
| DTVS and SSDMS off | | 0.5 | | | 6 | | | 6.5 | \$689 | | | \$689 | |
| DTVS on with SSDMS off | | 0.5 | | | 6 | | | 6.5 | \$689 | | | \$689 | |
| SSDMS on with DTVS off | | 0.5 | | | 6 | | | 6.5 | \$689 | | | \$689 | |
| SCS Expenses | | | | | | | | 0 | \$0 | \$1,710 | | \$1,710 | |
| | | | | | | | | 0 | \$0 | | | \$0 | |
| Subtotal | 1 | 10 | 4 | 0 | 45 | 0 | 2 | 62 | \$6,942 | \$1,710 | \$0 | \$8,652 | \$8,6 |
| | | | | | | | | | | | | | |
| Task 3 – Sub-Slab Sampling | | | | | | | | 0 | \$0 | | | \$0 | |
| Sample 6 sub-slab sample points | | 2 | 1 | | 12 | | 1 | 16 | \$1,722 | | | \$1,722 | |
| SCS expenses | | | | | | | | 0 | \$0 | \$200 | | \$200 | |
| Laboratory subcontractor | | | | | | | | 0 | \$0 | | \$1,200 | \$1,200 | |
| | | | | | | | | 0 | \$0 | | | \$0 | |
| Subtotal | 0 | 2 | 1 | 0 | 12 | 0 | 1 | 16 | \$1,722 | \$200 | \$1,200 | \$3,122 | \$3,1 |
| | | | | | | | | | | | | | |
| Task 4 – Indoor Air Sampling | | | | | | | | 0 | \$0 | | | \$0 | |
| Sample basement, first floor, and outdoor air (3 samples) | | 1 | | | 10 | | 1 | 12 | \$1,243 | | | \$1,243 | |
| SCS expenses | | | | | | | | 0 | \$0 | \$200 | | \$200 | |
| Laboratory subcontractor | | | | | | | | 0 | \$0 | | \$600 | \$600 | |
| | | | | | | | | 0 | \$0 | | | \$0 | |
| Subtotal | 0 | 1 | 0 | 0 | 10 | 0 | 1 | 12 | \$1,243 | \$200 | \$600 | \$2,043 | \$2,0 |
| Task 5 – SVE System Construction and Operation (6 Months) | | | | | | | | 0 | \$0 | | | \$0 | |
| Design, Bidding, Contracting, and Project Management | 4 | 4 | 16 | 8 | | | 4 | 36 | \$4,484 | | | \$4,484 | |
| Permitting | | 1 | 6 | | | | 2 | 9 | \$1,025 | | \$1,200 | \$2,225 | |
| Construction oversight | 1 | 1 | 2 | | 30 | | 1 | 35 | \$3,721 | | \$1,001 | \$4,722 | |
| SVE Construction documentation report | 2 | 4 | 16 | 3 | | 8 | 4 | 37 | \$4,212 | | | \$4,212 | 1 |
| Collect exhaust samples (1 per day for 3 days) | | 1 | | | 18 | | | 19 | \$1,989 | | | \$1,989 | 1 |
| Collect exhaust samples (1 per week for 3 weeks) | | 1 | + + | | 18 | | | 19 | \$1,989 | | | \$1,989 | 1 |
| Collect exhaust samples (1 per month for 5 months) | | 2 | + + | | 30 | } | | 32 | \$3,366 | ¢ / 0 / 0 | | \$3,366 | 1 |
| SCS expenses (piping, blowers, blower enclosures, misc expenses) | | | + | | | + | | 0 | \$0 \$0 | \$6,260 | <i>t</i> | \$6,260 | 1 |
| Electrical contractor | | | + | | | + | | 0 | \$0 ¢0 | | \$500 | \$500 | 1 |
| Excavation, underground piping, and pavement replacement contractor | | 1 | + + | | | | | 0 | \$0 \$0 | | \$12,000 | \$12,000 | 1 |
| Soil Disposal Contractor (SVE trench spoils) | | + | + | | | } | | 0 | \$0 | | \$1,200 | \$1,200 | 1 |
| Concrete disposal contractor | | | + | | | + | | 0 | \$0 \$0 | | \$250 | \$250 | |
| Subtotal | 7 | 14 | 40 | 11 | 96 | 8 | 11 | 0 187 | \$0 \$20,786 | \$6,260 | \$16,151 | \$0 \$43,197 | |
| | | 14 | | | 70 | 0 | | 10/ | φ ∠0,7 80 | #0,200 | φ10,131 | ψ ⁴ 3,177 | 1 943,2 |
| | | 22 | 45 | 10 | 1/0 | + <u> </u> | + . . | 000 | * 00.055 | * 0.070 | A17 051 | **** | \$58,6 |
| Total | 10 | 33 | 45 | 13 | 163 | 8 | 17 | 289 | \$32,355 | \$8,370 | \$17,951 | \$58,676 | |

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SCS ENGINEERS

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| Task 2 - Pressur | Estimated | action 1 | and a start | Estimated |
|--|---------------------------------------|--------------|-------------|-----------------|
| Description | Quantity | Unit | Unit Cost | Cost |
| GROUNDWATER MONITORING | | | | |
| Bentonite, chipped | | Bag | \$12.00 | \$0.0 |
| Brass well locks | 1 | Each | \$12.00 | \$0.0 |
| Dedicated ballers Disposable ballers | | Each | \$42.00 | \$0.0 |
| Dissolved oxygen meter | | Day | \$40.00 | \$0.0 |
| Dissolved oxygen test kit | | Day | \$25.00 | \$0.0 |
| Dissolved oxygen tubes | | Each | \$5.00 | \$0.0 |
| Field filtering apparatus | | Day | \$22.00 | \$0.0 |
| Field filters Flush-mount well cover | | Each | \$16,00 | \$0.0 |
| Ice | | Bag | \$7.00 | \$0.0 |
| Oil/water interface probe | | Day | \$70.00 | \$0.0 |
| Petroleum product interface probe | | Day | \$70.00 | \$0.0 |
| pH, conductivity, temp, TDS meter | · · · · · · · · · · · · · · · · · · · | Day each | \$20.00 | \$0.0 |
| Pressure transducer and data logger | | Day | \$125.00 | \$0.0 |
| Water level Indicator Well caps | - | Day Each | \$30.00 | \$0.0 \$0.0 |
| YSI meter | | Day | \$30.00 | \$0.0 |
| | | 0.01 | 000.00 | |
| PUMPS | | | | |
| 2" gas engine pump | | Day | \$45.00 | \$0.0 |
| Bladder pump controller | | Day | \$50.00 | \$0.0 |
| Explosion proof pump | | Day | \$100.00 | \$0.0 |
| Peristaltic pump | - | Day | \$30.00 | \$0.0 |
| Submersible pump Sump pump | - | Day Day | \$100.00 | \$0.0 |
| Sump pump Well development pump | | Day | \$30.00 | \$0.0 |
| | | | | |
| PPE & AIR/GAS MONITORING | | 1 | | _ |
| Air monitoring detector tubes | | Each | \$15.00 | \$0.0 |
| Carbon monoxide meter | | Day | \$20.00 | \$0.0 |
| Four gas meter | | Day | \$65.00 | \$0.0 |
| Landfill gas meter | | Day | \$100.00 | \$0.0 |
| Level D PPE Modified Level D PPE | 3 | Day | \$5.00 | \$15.0 |
| Personal air sampling pump | | Day Day | \$15.00 | \$0.0 |
| Respirator cartridges | | Pair | \$25.00 | \$0.0 |
| Tyvek suit | | Each | \$20.00 | \$0.0 |
| SOIL SAMPLING AND TESTING | | | | _ |
| Concrete air/slump | | Each | \$30.00 | \$0.0 |
| Concrete core drill | | Day | \$120.00 | \$0.0 |
| Concrete cylinder mold | | Each | \$3.00 | \$0.0 |
| Photoionization detector (PID) rental | 3 | Day | \$75.00 | \$225.0 |
| Flameionization detector (FID) rental Hand auger kit | | Day Day | \$85.00 | \$0.0 |
| Nuclear density guage | | Day | \$125.00 | \$0.0 |
| Sampling conduit | | 10" section | \$4.00 | \$0.0 |
| Rotohammer | 1 | Day | \$25.00 | \$25.0 |
| Vapor pin | 16 | Each | \$60.00 | \$960.0 |
| Vapor sampling kit | | Day | \$25.00 | \$0.0 |
| SURVEYING 3/4-inch Irons | _ | Fast | #1 00 | \$0.0 |
| GPS unit/total station | | Each Hour | \$4.00 | \$0.0 |
| GPS site mapping unit | | Day | \$50.00 | \$0.0 |
| Level/laser level | | Hour | \$5.00 | \$0.0 |
| Marking paint | | Each | \$5.00 | \$0.0 |
| Survey chasers | | Each | \$0.30 | \$0.0 |
| Survey hubs | | Each | \$0.60 | \$0.0 |
| Survey lath MISCELLANEOUS | _ | Each | \$0.75 | \$0.0 |
| 55-gallon drums | | Each | \$55.00 | \$0.0 |
| Air compressor | - | Day | \$40.00 | \$0.0 |
| Air sparge pilot test set-up | | Day | \$250.00 | \$0.0 |
| Boat, 14-foot | - | Day | \$50.00 | \$0.0 |
| Boom trailer | | Day | \$250.00 | \$0.0 |
| Concrete | | Bag | \$10,00 | \$0.0 |
| Curlex blanket | - | Each | \$65.00 | \$0.0 |
| Curlex staples Cut-off saw | | Box Day | \$10.00 | \$0.0 |
| Digital camera | | Day | \$10.00 | \$0.0 |
| Dump trailer | | Day | \$175.00 | \$0.0 |
| Hard boorn (10") | | Foot | \$1.80 | \$0.0 |
| HEPA vacuum | | Day | \$40.00 | \$0.0 |
| Liquid ring pilot test set-up | | Day | \$125.00 | \$0.0 |
| Metal detector | - | Day | \$35.00 | \$0.0 |
| Oil absorbent boom (6" x 10') Oil absorbent boom (8" x 10') | - | Each | \$70.00 | \$0.0 |
| Oil absorbent Pad | | Each | \$0.75 | \$0.0 |
| Oil dry absorbent | | Bag | \$8.00 | \$0.0 |
| Orange safety fence | | Roll | \$40.00 | \$0.0 |
| Overpack drum | | Each | \$180.00 | \$0.0 |
| Plastic sheeting | _ | Roll | \$55.00 | \$0.0 |
| Portable generator | - | Day | \$45.00 | \$0.0 |
| Power auger setup Power tools, small | | Day Day | \$75.00 | \$0.0 |
| Spill response trailer | | Day | \$200.00 | \$0.0 |
| SVE pilot test setup | | Day | \$250.00 | \$0.0 |
| T-Posts | | Each | \$4.00 | \$0.0 |
| Utility trailer | | Day | \$40.00 | \$0.0 |
| Water storage tank | | Day | \$75.00 | \$0.0 |
| Water treatment | | Gallons | \$0.20 | \$0.0 |
| Meals | - | Meal | \$10.00 | \$0.0 \$80.0 |
| Mileage | | Miles | \$0.51 | \$408.0 |
| | | | | |
| Motel | | Day | | \$0.0 |

| Task 3 - Su Description GROUNDWATER MONITORING | Estimated | CONTRACTOR OF STREET | | |
|--|----------------|----------------------|---------------------|-------------------|
| | Quantity | Unit | Unit Cost | Estimated Cost |
| | 1 | | | |
| Bentonite, chipped | T | Beg | \$12.00 | \$0.00 |
| Brass well locks | | Each | \$12.00 | \$0.00 |
| Dedicated bailers Disposable bailers | | Each Each | \$42.00 | \$0.00 |
| Dissolved oxygen meter | | Day | \$40.00 | \$0.00 |
| Dissolved oxygen test kit | | Day Each | \$25.00 | \$0.00 |
| Dissolved oxygen tubes Field filtering apparatus | | Day | \$22.00 | \$0.00 |
| Field filters | | Each | \$16.00 | \$0.00 |
| Flush-mount well cover | | Each | \$125.00 | \$0.00 |
| Ice Oil/water interface probe | | Bag Day | \$7.00 | \$0.00 |
| Petroleum product interface probe | | Day | \$70.00 | \$0.00 |
| pH, conductivity, temp, TDS meter | | Day each | \$20.00 | \$0.00 |
| Pressure transducer and data logger Water level indicator | | Day Day | \$125.00 \$30.00 | \$0.00 |
| Well caps | | Each | \$18.25 | \$0.00 |
| YSI meter | | Day | \$30.00 | \$0.00 |
| PUMPS | | <u> </u> | | |
| 2" gas engine pump | | Day | \$45.00 | \$0.00 |
| Bladder pump controller | | Day | \$50.00 | \$0.00 |
| Explosion proof pump | | Day | \$100.00 | \$0.00 |
| Peristaltic pump Submersible pump | - | Day Day | \$30.00 | \$0.00 |
| Sump pump | | Day | \$15.00 | \$0.00 |
| Well development pump | | Day | \$30.00 | \$0.00 |
| PPE & AIR/GAS MONITORING | | | | |
| PPE & AIR/GAS MONITORING Air monitoring detector tubes | | Each | \$15.00 | \$0.00 |
| Carbon monoxide meter | | Day | \$20.00 | \$0.00 |
| Four gas meter | | Day | \$65.00 | \$0.00 |
| Landfill gas meter Level D PPE | 1 | Day | \$100.00 | \$0.00 |
| Modified Level D PPE | | Day | \$15.00 | \$0.00 |
| Personal air sampling pump | | Day | \$30.00 | \$0.00 |
| Respirator cartridges | | Pair | \$25.00 | \$0.00 |
| Tyvek suit SOIL SAMPLING AND TESTING | | Each | \$20.00 | \$0.00 |
| Concrete air/slump | | Each | \$30.00 | \$0.00 |
| Concrete core drill | | Day | \$120.00 | \$0.00 |
| Concrete cylinder mold | | Each | \$3.00 | \$0.00 |
| Photoionization detector (PID) rental Flameionization detector (FID) rental | 1 | Day Day | \$75.00 | \$75.00 |
| Hand auger kit | | Day | \$30.00 | \$0.00 |
| Nuclear density guage | | Day | \$125.00 | \$0.00 |
| Sampling conduit Rotohammer | | 10' section Day | \$4.00 \$25.00 | \$0.00 |
| Vapor pin | | Each | \$60.00 | \$0.00 |
| Vapor sampling kit | | Day | \$25.00 | \$0.00 |
| SURVEYING | | | | - |
| 3/4-inch froms GPS unit/total station | | Each Hour | \$4.00 \$20.00 | \$0.00 |
| GPS site mapping unit | | Day | \$50.00 | \$0.00 |
| Level/iaser level | | Hour | \$5.00 | \$0.00 |
| Marking paint Survey chasers | - | Each | \$5.00 | \$0.00 |
| Survey hubs | | Each | \$0.60 | \$0.00 |
| Survey lath | | Each | \$0.75 | \$0.00 |
| MISCELLANEOUS | | F | | |
| 55-galion drums Air compressor | | Each Day | \$55.00 \$40.00 | \$0.00 |
| Air sparge pilot test set-up | | Day | \$250.00 | \$0.00 |
| Boat, 14-foot | | Day | \$50.00 | \$0.00 |
| Boom trailer Concrete | | Day | \$250.00 | \$0.00 |
| Curlex blanket | | Bag Each | \$65.00 | \$0.00 |
| Curtex steples | | Box | \$10.00 | \$0.00 |
| Cut-off saw | 1 | Day | \$50.00 | \$0.00 |
| Digital camera Dump trailer | - | Day Day | \$175.00 | \$0.00 |
| Hard boom (10") | | Foot | \$1.80 | \$0.00 |
| HEPA vacuum | | Day | \$40.00 | \$0.00 |
| Liquid ring pilot test set-up Metal detector | | Day Day | \$125.00 \$35.00 | \$0.00 |
| Oil absorbent boom (6" x 10") | | Each | \$70.00 | \$0.00 |
| Oil absorbent boom (8" x 10') | 1.0 | Each | \$90.00 | \$0.00 |
| Oil absorbent Pad | | Each Bag | \$0.75 | \$0.00 |
| Oil dry absorbent Orange safety fence | 1 | Roli | \$40.00 | \$0.00 |
| Overpack drum | | Each | \$180.00 | \$0.00 |
| Plastic sheeting | <u>; = = 3</u> | Roll | \$55.00 | \$0.00 |
| Portable generator Power auger setup | - | Day Day | \$45.00 | \$0.00 |
| Power tools, small | - | Day | \$20.00 | \$0.00 |
| Spill response trailer | | Day | \$200.00 | \$0.00 |
| SVE pilot test setup T-Posts | ti | Day Each | \$250.00 \$4.00 | \$0.00 |
| 1. A sector | | Day | \$40.00 | \$0.00 |
| | 1 | Day | \$75.00 | \$0.00 |
| Utility trailer Water storage tank | | | 20.001 | \$0.00 |
| Utility trailer | | Gallons | \$0.20 | |
| Utility trailer Water storage tank Water treatment | 2 | | | \$0.00 |
| Utility trailer Water storage tank | | Meal Miles | \$10.00 \$0.51 | |
| Utility trailer Water slorage tank Water treatment Meals | | Meal | \$10.00 | \$0.00 \$20.00 |

| Task 4 - Ir | idoor Air Sa | ampling | | The second second |
|--|-----------------------|-----------------|---------------------|-------------------------------------|
| Description | Estimated Quantity | Unit | Unit Cost | Estimated Cost |
| GROUNDWATER MONITORING | | 1 | | |
| Bentonite, chipped | | Bag | \$12.00 | \$0. |
| Brass well locks Dedicated bailers | | Each | \$12.00 | \$0. |
| Disposable bailers | _ | Each | \$42.00 | \$0. \$0 |
| Dissolved oxygen meter | - | Day | \$40.00 | \$0. |
| Dissolved oxygen test kit | - | Day | \$25.00 | \$0. |
| Dissolved oxygen tubes | | Each | \$5.00 | \$0. |
| Field filtering apparatus | | Day | \$22.00 | \$0. |
| Field filters | | Each | \$16,00 | \$0. |
| Flush-mount well cover | | Each | \$125.00 | \$0. |
| lce | | Bag | \$7.00 | \$0. |
| Oil/water interface probe | | Day | \$70.00 | \$0. |
| Petroleum product interface probe | _ | Day | \$70.00 | \$0. |
| pH, conductivity, temp, TDS meter Pressure transducer and data logger | _ | Day each Day | \$20.00 | \$0. |
| Water level indicator | _ | Day | \$30.00 | \$0. |
| Weil caps | | Each | \$18.25 | \$0.0 |
| YSI meter | | Day | \$30.00 | \$0, |
| | | | | |
| PUMPS | | | | |
| 2" gas engine pump | | Day | \$45.00 | \$0,1 |
| Bladder pump controller | | Day | \$50.00 | \$0. |
| Explosion proof pump | | Day | \$100.00 | \$0, |
| Peristallic pump | | Day | \$30.00 | \$0,1 |
| Submersible pump | | Day | \$100.00 | \$0.0 |
| Sump pump | | Day | \$15.00 | \$0.0 |
| Well development pump | - | Day | \$30.00 | \$0.0 |
| | | | | |
| PPE & AIR/GAS MONITORING | | | | |
| Air monitoring detector tubes | | Each | \$15.00 | \$0.0 |
| Carbon monoxide meter | | Day | \$20.00 | \$0.0 |
| Four gas meter Landfill gas meter | _ | Day Day | \$65.00 | \$0.0 |
| Level D PPE | | Day | \$5.00 | \$5.0 |
| Modified Level D PPE | | Day | \$15.00 | \$0.0 |
| Personal air sampling pump | | Day | \$30.00 | \$0.0 |
| Respirator cartridges | - | Pair | \$25.00 | \$0.0 |
| Tyvek suit | | Each | \$20.00 | \$0,0 |
| SOIL SAMPLING AND TESTING | | | | |
| Concrete air/slump | | Each | \$30.00 | \$0.6 |
| Concrete core drill | | Day | \$120.00 | \$0.0 |
| Concrete cylinder mold | | Each | \$3.00 | \$0.0 |
| Photoionization detector (PID) rental | 1 | Day | \$75.00 | \$75.0 |
| Flameionization detector (FID) rental | _ | Day | \$85.00 | \$0.0 |
| Hand auger kit | | Day | \$30.00 | \$0.0 |
| Nuclear density guage | | Day | \$125.00 | \$0.0 |
| Sampling conduit Rolohammer | - | 10' section | \$4.00 | \$0.0 |
| Vapor pin | | Day Each | \$25.00 \$60.00 | \$0.0 |
| Vapor sampling kit | - | Day | \$25.00 | \$0.0 |
| SURVEYING | | uaj . | | |
| 3/4-inch trons | _ | Each | \$4.00 | \$0.0 |
| GPS unit/total station | | Hour | \$20.00 | \$0.0 |
| GPS site mapping unit | | Day | \$50.00 | \$0.0 |
| Level/laser level | | Hour | \$5.00 | \$0.0 |
| Marking paint | | Each | \$5.00 | \$0.0 |
| Survey chasers | 1 | Each | \$0.30 | \$0.0 |
| Survey hubs | | Each | \$0.60 | \$0.0 |
| Survey lath | | Each | \$0.75 | \$0.0 |
| MISCELLANEOUS | | | | |
| 55-gallon drums | - | Each | \$55.00 | \$0.0 |
| Air compressor Air sparge pliot test set-up | - | Day | \$40.00 \$250.00 | \$0.0 |
| Boat, 14-foot | | Day Day | \$250.00 | \$0.0 |
| Boan, 14-1001 Boom trailer | | Day | \$250.00 | \$0.0 |
| Concrete | | Bag | \$10.00 | \$0.0 |
| Curlex blanket | | Each | \$65.00 | \$0.0 |
| Curlex staples | | Box | \$10.00 | \$0.0 |
| Cut-off saw | 1 | Day | \$50.00 | \$0.0 |
| Digital camera | | Day | \$10.00 | \$0.0 |
| Dump trailer | | Day | \$175.00 | \$0.0 |
| Hard boom (10") | | Foot | \$1.80 | \$0.0 |
| HEPA vacuum | - | Day | \$40.00 | \$0.0 |
| Liquid ring pilot test set-up Metal detector | - | Day | \$125.00 | \$0.0 |
| Oil absorbent boom (5° x 10') | - | Day Each | \$35.00 | \$0.0 |
| Oil absorbent boom (8" x 10') | | Each | \$90.00 | \$0.0 |
| Oil absorbent Pad | _ | Each | \$0.75 | \$0.0 |
| Oil dry absorbent | | Bag | \$8.00 | \$0.0 |
| Orange safety fence | | Roll | \$40.00 | \$0.0 |
| Overpack drum | | Each | \$180.00 | \$0.0 |
| Plastic sheeting | | Roll | \$55.00 | \$0.0 |
| Portable generator | | Day | \$45.00 | \$0.0 |
| Power auger setup | | Day | \$75.00 | \$0.0 |
| Power tools, small | _ | Day | \$20.00 | \$0.0 |
| Spill response trailer | - X | Day | \$200,00 | \$0.0 |
| | - | Day | \$250.00 | \$0.0 |
| | tion in | Each Day | \$4.00 | \$0.0 |
| T-Posts | | Jay | \$40.00 | \$0.0 |
| T-Posts | | Day | \$75 000 | |
| T-Posts Utility trailer Water storage tank | | Day | \$75.00 | |
| T-Posts Utility trailer Water storage tank | | Day Gallons | \$75.00 | \$0.0 |
| T-Posts Usliky trailer Water storage tank Water freatment | | Day | | \$0.0 \$0.0 |
| SVE plot test setup T-Posts Utility trailer Water storage tank Water treatment Meals Mileage | 2 200 | Day Gallons | \$0.20 | \$0.0 \$0.0 \$20.0 \$102.0 |

| Description GROUNDWATER MONITORING Bentonita, chipped Brass well locks Dedicato bailers Disposable bailers Dissolved oxygen meter Dissolved oxygen totak kit Dissolved oxygen totak kit Dissolved oxygen totak kit Dissolved oxygen totak kit Dissolved oxygen totak Field filters Field filters Plush-mount well cover Ide Odiwater interface probe Pkt: conductivny, temp, TDS meter Pressure transducer and data logger Water level indicator Well caps YSI meter PUMPS 2* gas engine pump Bidder pump Bidder pump Submersible pump Submersible pump Submersible pump Submersible pump Bidder pump Bidder pump Bidder pump Bidder pump Submersible pump Sume sub pump PPE & ALRIGAS MONITORING Air monitoring de | Estimated Quantity | Unit Bag Each Each Day Each Each Day Each Day Each Day Day Each Day | Unit Cost \$12.00 \$12.00 \$42.00 \$42.00 \$55.00 \$25.00 \$15.00 \$22.00 \$16.00 \$22.00 \$125.00 \$70.00 \$20.00 \$125.00 \$20.00 \$18.25 \$30.00 \$18.25 \$30.00 \$18.25 \$30.00 \$18.25 \$30.00 \$15.00 \$30.00 \$15.00 \$35.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$30.00 \$15.00 \$30.00 \$ | Estimated Coat S0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.00000 \$0.0000000 \$0.0000 \$0.00000000 |
|---|-----------------------|--|---|---|
| GROUNDWATER MONITORING Bentonite, chipped Bentonite, chipped Disposable bailers Disposable bailers Disposable bailers Dissolved oxygen neter Disolved oxygen test kit PUMPS YSI meter PUMPS Samp pump Well development pump Submersible pump Sump pump Well development pump PPE & AIR/GAS MONITORING Air mointoring detector tubes Carbon monoxide m | | Bag Each Each Each Cay Day Each Day Day Each Day Day Day Day Day Day Day Day Day Day | \$12.00 \$42.00 \$42.00 \$46.00 \$55.00 \$55.00 \$525.00 \$70.00 \$15.00 \$100.00 \$100.00 \$100.00 \$15.00 \$30.00 \$100.00 \$20.00 \$100.00 \$100.00 \$100.00 \$20.00 \$100.00 \$20.00 \$100.00 \$20. | \$0.000 \$0.00 |
| Bentonite, chipped Brass well locks Brass well locks Disposable bailers Disposable bailers Dissolved oxygen neter Field filters Field filters Field filters Field filters Field filters Pressure interface probe Petroleum product Interface probe Petroleum product Interface probe Petroleum product Interface probe Pressure transducer and data logger Water level Indicator Well caps YSI meter PUMPS 2 2 gas engine pump Bladder pump controller Explosion proof pump Pertatilite pump Submersible pump Submersible pump Well development pump Well development pump Well development pump Personal aris aramping pump Respirator cartridges Tyvek aut SOIL SAMPLING AND TESTING Concrete oxidiate Four gas meter Four gas meter Four gas meter Concrete oxidiate Rotonamie Submersible SUM-LING AND TESTING Concrete oxidiate Survey hubs Survey hubs Survey hubs Survey hubs Survey fub Survey fu | 16 | Each Each Each Day Each Day Each Day Each Day Each Day Day Day Day Day Day Day Day Day Day | \$12.00 \$42.00 \$42.00 \$46.00 \$55.00 \$55.00 \$525.00 \$70.00 \$15.00 \$100.00 \$100.00 \$100.00 \$15.00 \$30.00 \$100.00 \$20.00 \$100.00 \$100.00 \$100.00 \$20.00 \$100.00 \$20.00 \$100.00 \$20. | \$0.000 \$0.00 |
| Dedicated bailers Disposable bailers Disposable bailers Disposable bailers Dissolved oxygen neter Dissolved oxygen tubes Field filtering apparatus Field filtering Field filters Field filters Field filters Field filters Field filters Field filters Petroleum product interface probe Petroleum product interface probe Plt. conductivity, temp, TDS meter Pressure transducer and data logger. Water level indicator Well caps VWI caps 2 2° gas engine pump Biadder pump controller Explosion proof pump Petratallitic pump Sume pump Well development pump Well development pump Well development pump Vell development pump PPE & AIR/GAS MONITORING Ar monitoring detector tubes Carbon monoxide meter Four gas meter Landfil gas meter Landfil gas meter Explorator carbidges Tyvek suit SOIL SAMPLING AND TESTING Concrete aridger Goncrete aridges Tyvek suit SURVEYING SURVEY | 16 | Each Each Day Day Each Day Each Day Day Day Day Day Day Day Day Day Day | \$42.00 \$15.00 \$22.00 \$22.00 \$22.00 \$22.00 \$70.00 \$7 | \$0.00 |
| Dissolved oxygen meter Dissolved oxygen test kit Dissolved oxygen test kit Piush-mount well cover loc Oliwater interface probe Pitalifiers Pressure transducer and data logger Water level indicator Water level indicator Water level indicator Water level indicator Water level indicator Water level indicator Water level indicator PUMPS 2 gas engine pump Biadder pump controller Explosion proof pump Peristatile pump Submersible pump Submersible pump Submersible pump Well development pump PPE & AIR/GAS MONITORING Air monitoring detector tubes Carbon monoide meter Four gas meter Landfil gas meter Landfil gas meter Devel D PPE Personal air sampling pump Respirator cartifiges Tyvek suit SOIL SAMPLING AND TESTING Concrete offill Concrete offill Concrete all/slump Concrete core drill Concrete all/slump Submersi y guage Sampling conduit Rotohammer Vapor pin Vapor pin Vapor sampling kit SURVEYING SV-4: parter Survey hubs Survey hubs Survey hubs Survey lab MisceLLANEOUS SVE above-ground piping Air sparge pikit less set- Survey hubs Survey lab MisceLLANEOUS SVE bover-enclosure and blovers SVE above-ground piping Air sparge pikit less set- Quing x taples condiger Concrete Curlex taples Curlex taples | 16 | Each Day Day Each Day Each Day Each Day Day Each Day Day Day Day Day Day Day Day Day Day | \$15.00 \$40.00 \$5.00 \$5.00 \$125.00 \$125.00 \$70.00 \$70.00 \$70.00 \$125.00 \$125.00 \$125.00 \$100.00 | \$0.000 \$0.00 |
| Dissolved oxygen toks Field filtering apparatus Field filtering Field Field filtering Field Field filtering Field Field filtering Field Field filtering Field | 16 | Day Each Oay Each Bag Day Day Each Day Day Day Day Day Day Day Day Day Day | \$25.00 \$5.00 \$22.00 \$70 | \$0.00 |
| Dissolved oxygen tubes Field filtering apparatus Field filtering apparatus Field filtering Plush-mount well cover Los Oliwater interface probe Petroleum product interface probe PuMPS 'g gas engine pump Bladder pump controller Explosion proof pump Petroleum pump Well development pump Submersible pump Submersible pump Submersible pump Well development pump PE & AIR/GAS MONITORING Air monitoring detector lubes Carbon monoxide meter Four gas meter Landfill gas meter Landfill gas meter Explositor actridges Tyvek suit SOLI SAMPLING AND TESTING Concrete or drill Concrete or drill Concrete or drill Concrete or drill Concrete inform pump Respirator carbidges Sumpling conduit Rotohammer Vapor pim Vapor sampling kit SURVEYING SVE blower enclosure and blowers SVE abover.gound piping Art sparge pick test set-up Boat, 14-foot Boom trailer Concrete Curlex talpes Curl-off saw Digial camera Dump trailer Hard boom (10') HEPA vocuum | 16 | Each Day Each Each Day Day Day Day Each Day Day Day Day Day Day Day Day Day Day | \$5.00 \$22,00 \$122,00 \$122,00 \$122,00 \$70,00 \$70,00 \$70,00 \$122,00 \$122,00 \$132,00 \$132,00 \$132,00 \$132,00 \$145,00 \$100,00 \$100,00 \$100,00 \$100,00 \$15,00 \$100,00 \$15,00 \$100,00 \$100,00 \$15,00 \$100,000 \$100,0000\$100,0000\$100,0000\$100,0000\$100,0000\$100,000\$100,000\$100,000\$100,000\$100,000\$100,0000\$100,000\$100,000 | \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.00000 \$0.00000 \$0.00000000 |
| Field filtering apparatus Field filters Petroleum product infrace probe pH, conductivity, temp, TDS meter Pressure transducer and data logger. Water level indicator Well caps 2* gas engine pump Bidder pump controller Explosion ptrof pump Pertatilitic pump Sume pump Well development pump Well development pump Well development pump PPE & ALR/GAS MONITORING Ar monitoring detector tubes Carbon monoxide meter Four gas meter Landfil gas meter Landfil gas meter Concrete orkidum Concrete orkidum Concrete orkidum Concrete orkidum Concrete orkidum Rothammer Vapor sampling kit SURVetNING Survey hub Survey tinth Marking paint <td>16</td> <td>Day Each Each Day Day Day Day Day Day Day Day Day Day</td> <td>\$22.00 \$16.00 \$70.00 \$7</td> <td>\$0.00 \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.00000 \$0.0000 \$0.0000000 \$0.00000000</td> | 16 | Day Each Each Day Day Day Day Day Day Day Day Day Day | \$22.00 \$16.00 \$70.00 \$7 | \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.00000 \$0.0000 \$0.0000000 \$0.00000000 |
| Flush-mount well cover loe Ollwater interface probe Petroleum product interface probe Petroleum product interface probe Pkt.conductivny, temp, TDS meter Pressure transducer and data logger. Water level indicator Well capa VSI meter. PUMPS 2" gas engine pump Bladder pump Bladder pump controller Explosion proof pump Perintatitic pump Sume pump Well development pump Petristatitic pump Submersible pump Sume pump Well development pump PES & ARUGAS MONITORING Ar monitoring detector tubes Carbon monoxide meter Four gas meter Landflig gas meter Level D PPE Modified Level D PPE Modified Level D PPE Personal air sampling pump Concrete airbidrum Concrete airbidrum Concrete airbidrum Concrete airbidrum Concrete airbidrum Photoionization detector (PID) rental Flamelonization detector (PID) rental Flamelonization detector (PID) rental Flamelonization detector (PID) rental Robhammer Vapor sampling kit SURVer VING SVE above-groundut Ser sa | 16 | Each Bag Day Day Day Day Day Day Day Day Day Day | \$125.00 \$77.00 \$77.00 \$70.00 \$125.00 \$125.00 \$125.00 \$125.00 \$125.00 \$125.00 \$100.00 \$ | \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0 |
| ice Ice Gil/water interface probe Petroleum product interface probe pH, conductivity, temp, TDS meter Pressure transducer and data logger. Water level indicator Well caps YSI meter PIMPS 2° gas engine pump Bladder pump controller Explosion proof pump Peristattic pump Sump pump Well development pump Well development pump PPE & AIR/GAS MONITORING Ar monitoring detector tubes Carbon monoxide meter Four gas meter Landfill gas meter Landfill gas meter Concrete air/slump Concrete air/slump Concrete air/slump Concrete air/slump Concrete cylinder mold Concrete orginder Hord Photionization detector (FID) rental Hameionization detector (FID) rental Hand suger kit Nuclear density guage Sampling conduit Robinarmer Vapor pin Vapor pin Vapor pin | 16 | Bag Day Day Day Day Day Day Day Day Day Day | \$7:00 \$70.00 \$70.00 \$20.00 \$125.00 \$125.00 \$125.00 \$125.00 \$100.00 \$10 | \$0.000 \$0.00 |
| Olfwater interface probe Petroleum producti interface probe Petroleum productivity, temp, TDS meter Pressure transducer and data logger. Water level indicator Well caps YSI meter. PUMPS 2 [*] gas engine pump Bladder pump Submersible pump Submersible pump Submersible pump PE & AIRIGAS MONITORING Air monitoring detector tubes Carbon monoxide meter Four gas meter Landfli gas meter Level D PPE Modified Level D PPE Poltisatic guder Tyvek suit SOIL SAMPLING AND TESTING Concrete alrifump Concrete alrifump Concrete alrifum Concrete alrifum Vapor ampling kit SURVEYING SV4-inch fors GPS unithotal station GPS site mapping unit Leveliaser level Marking paint Survey habs Survey lab Survey lab | 16 | Day Day each Day each Day Day Each Day Day Day Day Day Day Day Day Day Day | \$70.00 \$70.00 \$70.00 \$122.00 \$330.00 \$18.25 \$30.00 \$18.25 \$30.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$15.00 \$30.00 \$100.00 \$15.00 \$100.00 | \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.00000 \$0.00000 \$0.00000000 |
| pH_conductivity, temp, TDS meter Pressure transducer and data logger Water level indicator Well caps YSI meter PUMPS 2 gas engine pump Biadder pump controller Explosion proof pump Peristatite pump Submersible pump Submersible pump Well development pump Well development pump PPE & AIR/GAS MONITORING Air monitoring detector tubes Carbon monoxide meter Four gas meter Landfli gas meter Landfli gas meter Landfli gas meter Landfli gas meter Carbon monoxide meter Four gas meter Carbon monoxide meter Four gas meter Carbon monoxide meter Four gas meter Landfli gas meter Landfli gas meter Carbon monoxide meter Four gas meter Landfli gas meter Concrete ol/falump Concrete ol/falump Concrete ol/falump Concrete ol/falump Concrete ol/falump Concrete ol/falump Submer endult Hand auger kit Nuclear density guage Sampling conduit Rotohammer Vapor pin Vapor sampling unit Levell SPEVING Survey hubs Survey hubs Survey hubs Survey falb MisceLLANEOUS SVE blower enclosure and blowers SVE above-ground piping Ar.sparge pikt lest set-up Boant fal-foot Gonorete (Concrete) Curlex taples Curlex taples | 16 | Day each Day Day Each Day Day Day Day Day Day Day Day Day Day | \$20.00 \$125.00 \$30.00 \$18.25 \$30.00 \$18.25 \$30.00 \$45.00 \$45.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$15.00 \$30.00 \$10.00 \$10.00 \$30.00 \$10.00 \$ | \$0.000 \$0.000 \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.00000 \$0.00000 \$0.000000 |
| Pressure transducer and data logger. Well caps Well caps YSI meter PUMPS 2 gas engine pump Bladder pump centroller Explosion proof pump Peristatile pump Submersible pump Submersible pump Well development pump PPE & AIR/GAS MONITORING Air monitoring detector tubes Carbon monoxide meter Four gas meter Landfli gas meter Landfli gas meter Landfli gas meter Level D PPE Modified Level D PPE Personal air sampling pump Respirator cartifiges Tyvek suit SOIL SAMPLING AND TESTING Concrete a divisium Concrete core drill Concrete a divisium Concrete core drill Concrete sourder (FID) rental Fiamelonization detector (FID) rental Fiamelonization detector (FID) rental Photoionization detector (FID) rental Photoionization detector (FID) rental Fiamelonization detector (FID) rental Rotohammer Vapor pin Vapor spin GPS unithotal station GPS site mapping unit Levelfaser Level Marking paint Survey thabs Survey thabs Survey tubs SURSCELANEOUS SVE above-ground piping Art sparge pilot Lest set-up Boat, 14-foot Boom trailer Concrete Curlex taples Curlex taples Curley Tamping NUL SVE above-ground piping Art sparge pilot Lest set-up Boat, 14-foot Doom trailer Concrete Curlex taples Curley tabanket Curlex taples Curley tabanket Curlex taples Curley tabes Survey chabes Curley tabanket Curlex taples Curley tabanket Curley tabes Curley tabanket Curley tabanket Curley tabanket Curley tables Curley tabanket Curley tabanke | 16 | Day Day Each Day Day Day Day Day Day Day Day Day Day | \$125.00 \$30.00 \$18.25 \$30.00 \$45.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$30.00 \$100.00 \$30 | \$0,000 \$0,0000 \$0,00000 \$0,0000 \$0,0000 \$0,0000000 \$0,00000000 |
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| GPS site mapping unit Level/laser level Marking paint Survey chasers Survey labs Survey labs Survey lab MISCELLANEOUS SVE blower enclosure and blowers SVE above-ground piping Air sparge pilot test set-up Boom trailer Concrete Curlex blanket Curlex staples Curlex staples Curlex staples Curlex staples Curlex staples Hard boom (10") HEPA vocum | | Each | \$4.00 | \$0.00 |
| Levellaser level Advisor level Advisor basers Advisor of the series and basers and baser | | Hour Day | \$20.00 | \$0.00 |
| Survey chasers Survey lab Survey lab WisCELLANEOUS SVE blower enclosure and blowers SVE blower enclosure and blowers SVE above-ground piping Air sparge pilot test set-up Boant 14-foot Boant 14-foot Boant 14-foot Concrete Curlex blanket Curlex staples Dung trailer Dung trailer Hard boom (10°) HEPA vocumt | | Hour | \$5.00 | \$0.00 |
| Survey hubs Survey lath Survey lath Survey lath SVE blower enclosure and blowers SVE blower onclosure and blowers SVE abover-ground piping Air sparge pilot test sel-up Boat, 14-foot Boat, 14-foot Boat, 14-foot Curlex blanket Curlex blanket Curlex staples Curlex taples Curlex taplex | | Each | \$5.00 | \$0.00 |
| Survey lath MISCELLANEOUS SVE blower enclosure and blowers SVE above-ground piping Ar sparge pilot test set-up Boon trailer Concrete Concrete Curlex blanket Curlex staples Cut-off saw Digital camera Dump trailer Hard boom (10") HEPA vocum | | Each | \$0.30 | \$0.00 |
| MISCELLANEOUS SVE blower enclosure and blowers SVE blower enclosure and blowers SVE abover ground piping Arr sparse pilot test set-up Boat, 14-foot Boart trailer Concrete Curlex blanket Curlex staples Curlex staples Curlex staples Curlex staples Curlex staples Hard boom (10°) HEPA vocum | | Each | \$0.75 | \$0.00 |
| SVE above-ground piping Ar sparge piot test set-up Air sparge piot test set-up Boon trailer Boon trailer Concrete Curlex blanket Curlex staphes Curlex staphes Curlex tanket Dung trailer Digital camera Dung trailer Hard boom (10") HEPA vocum HEPA vocum | | | | |
| Air sparge pilot test set-up Boat, 14-foot Boat, 14-foot Boart railer Concrete Curlex blanket Curlex staples Curlex staples Curlex staples Dump trailer Dump trailer Hard boom (10°) HEPA vocum | | Each | \$2,900.00 | \$2,900.00 |
| Boat, 14-foot Boart, 14-foot Concrete Curlex blanket Curlex staphes Curlex staphes Curlent saw Digital camera Dump trailer Hard boom (10") HEPA vacuum | 1 | Each Day | \$1,000.00 | \$1,000.00 |
| Concrete Curlex blanket Curlex blanket Curlex staples Curlex Stapl | | Day | \$50.00 | \$0.00 |
| Curlex blanket Curlex staples Curles staples Curles staples Digital camera Dump trailer Hard boom (10°) HEPA vocum | | Day | \$250.00 | \$0.00 |
| Curiex staples Cut-off saw Digital camera Dung trailer Hard boom (10") HEPA vocum Cutor (10") | | Bag Each | \$10.00 | \$0.00 |
| Cut-off saw Digital camera Dump trailer Hard boom (10") HEPA vacuum Digital Camera Digital Camer | | Box | \$10.00 | \$0.00 |
| Dump trailer Hard boom (10") HEPA vacuum | | Day | \$50.00 | \$0.00 |
| Hard boom (10") HEPA vacuum | | Day Day | \$10.00 \$175.00 | \$0.00 |
| HEPA vacuum | | Foot | \$1.80 | \$0.00 |
| LIDING COD DIG LOST SALLING | | Day | \$40.00 | \$0.00 |
| Liquid ring pilot test set-up Metal detector | | Day Day | \$125.00 | \$0.00 |
| Oil absorbent boom (5" x 10') | | Each | \$70.00 | \$0.00 |
| Oil absorbent boom (6° x 10') | | Each | \$90.00 | \$0.00 |
| Oil absorbent Pad Oil dry absorbent | 1 | Each | \$0.75 | \$0.00 |
| Orange safety fence | | Bag Roll | \$40.00 | \$0.00 |
| Overpack drum | | Each | \$180.00 | \$0.00 |
| Plastic sheeting Potable apparentet | 2 | Roll | \$55.00 | \$110.00 |
| Portable generator Power auger setup | | Day Day | \$45.00 \$75.00 | \$180.00 |
| Power tools, small | | Day | \$20.00 | \$0.00 |
| Spill response trailer | 2 | Day | \$200.00 | \$0.00 |
| SVE pilot test setup T-Posts | | Day Each | \$250.00 | \$0.00 |
| Utility trailer | | Day | \$40.00 | \$160.00 |
| Water storage tank | 4 | | \$75.00 | \$0.00 |
| Water treatment | 4 | Day | \$0.20 | \$0.00 |
| Meals | 4 | Day Gallons | | |
| Mileage | 20 | Day Gallons Meal | \$10.00 | \$200.00 |
| Motei | | Day Gallons Meal Miles | \$10.00 \$0.51 | \$1,632.00 |
| TOTAL FIELD EQUIPMENT AND EXPENSES (| 20 | Day Gallons Meal | | |

| | | | | Tas | sk 3 - Si | ub-Slak | San | nplin | 9 | | | | | |
|-----------------|-----------------|-------------|-----------------------|------|------------------|---------|-------|----------|------------------|-------|-------------------|-----|---------|---------------|
| Total Estimated | Analytical | Costs | ÷ | | | | | | | a | | | | |
| Parameter | Soil Samples | Soil Dup | Methanol Fid Blank | Cost | Soll Subtotal | GW | Water | | Rinsate Blank | | Water Subtotal | Air | Cost \$ | Air Subtot |
| VOC, TO-15 | Statut Parts | | | | \$0 | | Dop | Conartin | CHENK | COBLE | Subtour | 6 | \$200 | \$1,20 |
| Totals | 0 | 0 | 0 | | \$0 | 0 | 0 | 1 0 | 0 | 1.00 | \$0 | 61 | | \$1,20 |

Total Estimated Costs without markup = \$1,200

| | | _ | | Tas | k 4 - Inc | door Ai | r Sar | nplin | g | | | | | |
|-----------------|------------|-------|-----------|------|-----------|---------|-------|-------|---------|----------|----------|-----|---------|--------------|
| Total Estimated | Analytical | Costs | | | | | | | | | | | | |
| | Soll | Soil | Methanol | Cost | Soll | GW | Water | Trip | Rinsate | <u> </u> | Water | | | Air |
| Parameter | Samples | Dup | Fid Blank | 5 | Subtotal | Samples | Dup | Blank | Blank | Cost \$ | Subtotal | Air | Cost \$ | Subtob |
| VOC, TO-15 | | | | | \$0 | | 1 | | | | \$0 | 3 | \$200 | \$60 |
| Totals | 0 | 0 | 0 | | \$0 | 0 | 0 | 0 | 0 | 1 | \$0 | 31 | | \$60 \$60 |

Total Estimated Costs without markup = \$600