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March 6, 2013

Ms. Andrea Indelicato
Contract Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Program Management, 12th Floor
625 Broadway
Albany, New York 12233-7012

PROJECT: NYSDEC Standby Contract No. D007621
Work Assignment No.: D007621-10
Charlton Cleaners

Dear Ms. Indelicato:

Camp Dresser McKee & Smith (CDM Smith) is pleased to submit our scope and cost for above referenced work assignment to conduct a Remedial Investigation and Feasibility Study at the Charlton Cleaners site as requested by the NYSDEC.

The cost estimate provided by the NYSDEC was \$198,032. CDM Smith has prepared a cost estimate of \$632,145.53. The significant differences are as follows:

- CDM Smith included subcontract costs for management and disposal of investigation derived waste (+\$33,570)
- The goal of the RI/FS is to provide NYSDEC cost-effective remedial alternatives that are grounded in site-specific data. Since this RI/FS is for off-site plume with few expected receptors, CDM Smith wants to ensure that Monitored Natural Attenuation (MNA) will not be rejected during the FS for lack of data. CDM Smith has therefore included laboratory analysis for Monitored Natural Attenuation (MNA) parameters and Compound Specific Isotope Analysis in the cost estimate. (+\$6,221 for MNA and \$13,230 for CSIA)
- Analysis for inorganics was also included to allow an evaluation of a pump and treat alternative. (+\$4,274)
- As discussed with the project manager, CDM Smith included a second round of groundwater sampling. (approximately +\$55,957)





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- Per the requirements of DER-10, CDM Smith included QA/QC samples, field blanks and trip blanks to the laboratory subcontract estimate. (+\$5,710)
- Per NYSDEC policy, CDM Smith included a data management task (e.g., preparation of the electronic data deliverable) to the estimate. (+\$13,742)
- CDM Smith believes that 4.25 inch ID hollow stem auger for the borehole and 2" PVC casing and screen is appropriate for all the monitoring wells. This reduces the need for mobilizing an additional rig, and also facilitates sampling.
- We conferred with the NYSDEC project manager and agreed upon 29 locations for MIP analysis. Based on the competitive bidding process, this will cost \$131,150 plus 374 hours of CDM Smith labor.
- CDM Smith believes that the level of effort to produce the quality Remedial Investigation Reports and Feasibility Study Report that NYSDEC expects was underestimated by 694 hours.
- CDM Smith believes that the level of effort required to conduct well development and two rounds of groundwater sampling was underestimated by 560 hours.

Attached to this letter is Schedule 1 – Scope of Work that provides a detailed description and level of effort needed to complete each task in the work assignment, Schedule 2 - 2.11 Cost Schedules, and the Work Assignment Package Checklist.

If you have any questions, or need additional information, please call me at 212-377-4516.

Very truly yours,

A handwritten signature in blue ink, appearing to read "C. J. Gurr".

Chris Gurr
Project Manager
Camp Dresser & McKee



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Attachments: Schedule 1 – Scope of Work
Schedule 2 – 2.11 Cost Schedules
Cost Review Checklist

cc: M. Cruden, NYSDEC
S. Kellogg, CDM Smith
D. Durfee, CDM Smith
File

Schedule 1

Charlton Cleaners - (NYSDEC Site No. 243019)

Scope of Work

Background

The Charlton Cleaners Site is located in an urban area at 24 Barrett Avenue, Staten Island, NY. The site features include several large retail buildings. The site includes an 18,300 square foot building that is situated at the eastern end of the Forest Avenue Shoppers Town Shopping Center. Other retail businesses are adjacent and nearby. The site is currently an active retail store and is zoned for commercial use. The surrounding parcels are currently used for commercial and utility right of ways. The nearest residential properties are to the north across Barrett Avenue. Until 1994, the building was occupied by a dry cleaning business called Charlton Cleaners along with other small retailers. The building has since been remodeled and is occupied by a craft supply retailer. Prior use as a dry cleaner has led to the site being contaminated.

Site Geology and Hydrogeology:

The topography of the site is generally level and slopes slightly to the south-southeast. The shallow sediments beneath the site are glacial till, consisting of a heterogeneous mix of sand, silt, clay, and cobbles. Below the glacial till, sediments consist of a fine to coarse sand with trace silt and gravel.

Water level measurements indicate the depth to groundwater to be approximately 6 ft bg. and the general groundwater flow direction is to the north and northeast, with significant local variation. The nearest surface water body is Kill Van Kull, approximately one mile to the north.

Site Environmental Assessment

Based upon investigations conducted to date, the primary contaminants of concern at the site known at this time are tetrachlorethene (PCE), and PCE's breakdown products (i.e. trichloroethene, cis-1,2-dichloroethene, and vinyl chloride). Monitoring well data revealed a groundwater plume of PCE contamination under the former dry cleaners that extends north along the shopping center, and northeast across Barrett Avenue. In 2010, the greatest concentration of total VOCs was found just north of the former dry cleaner building in MW-6A (1,418 ppb) and just east of Barrett Ave. in MW-18A (23,272 ppb). Both these wells are screened near the water table. Figure 1 displays data from the wells east of Barrett Ave that are screened near the water table.

Investigations indicate that unsaturated soil at the site is not contaminated. However, PCE and its decay products have been measured in soil vapor at the site.

This site has been determined to be a significant threat to human health and the environment and has been classified a class 2 hazardous waste site.

Site Health Assessment

Direct contact with contaminants in the soil is unlikely because the site is covered with buildings and pavement. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of

radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Measures have been taken to prevent soil vapor intrusion from occurring in the on-site structure, thus minimizing the potential for exposure to on-site workers and shoppers. Off-site soil vapor sampling to the north west of the site has not identified the potential for soil vapor intrusion in to nearby structures. Access to conduct soil vapor intrusion sampling in an adjacent strip mall located immediately to the south/southeast of the site was denied by the property owner. Therefore, the potential exists for the inhalation of site contaminants due to soil vapor intrusion in the tenant spaces in this structure.

Scope of Work

Task 1 – Preliminary Activities

This task includes the labor needed for reviewing background documents, developing the preliminary and final scope of work and budget estimate(Schedule 2.11s), site and scoping visits, health and safety plan preparation, subcontract preparation, QAPP amendment, project management and administration costs for 2013, 2014, and 2015. Project management is assumed to require two hours per month.

Task 2 – Phase I Remedial Investigation

This task includes the labor and subcontractor support to complete the Phase 1 Remedial Investigation. This Task will include mobilization, membrane interface probe (MIP) study, monitoring well installation, development and round 1 sampling, soil vapor survey, survey oversight, and IDW management. These activities are discussed in detail below.

Mobilization and Demobilization

Mobilization will include ordering, receiving, and staging field equipment and marking all field work locations with stakes or flags and/or marking paint. Demobilization will include the complete restoration of any damage caused by site access, and/or site sampling; and oversight of the IDW and survey subcontractors.

- Survey Oversight – The survey subcontract includes measurement of x/y/z coordinates of monitoring wells and MIP locations.
- IDW Oversight – The IDW subcontract includes sampling and transport and disposal of soil and purge and decontamination water generated during the sampling activities. This subcontract also includes delivery, rental, cleaning and removal of three 10,000 gallon tanks.
 - It is assumed that the waste generated will be disposed of as non-hazardous. If the waste is characterized as hazardous, the disposal costs will increase significantly. Disposal costs for RCRA hazardous and TSCA hazardous waste have been included in the 2.11s, but the quantities have been assumed to be 0.
 - It is assumed that a truck accessible area on or near the site to stage the IDW and the 10,000 gallon tank will be available at no cost.
 - NYSDEC will determine if the wastes are hazardous or non-hazardous and will obtain an EPA waste ID number if the material must be disposed of off-Site.

- NYSDEC will issue a Hazardous Waste Determination Letter for IDW, and then an IDW Subcontractor will remove IDW from the Site.

Remedial Investigation – Phase I

Phase I of the Remedial Investigation includes a MIP investigation, monitoring well installation and development, water level readings, groundwater sampling, and soil vapor sampling.

- MIP Investigation – Up to 29 locations will be studied using MIP to a depth of up to 100 feet bgs (Figure 1). It is assumed that one location can be investigated per day, and collected data will be assessed daily. The project manager will conduct two site visits during the MIP investigation. The locations nearest to the suspected source will be investigated first. If a response is seen in the field in this row, then locations in the next row of locations downgradient will be investigated. This sequence will be repeated until no further contamination is detected.
 - A direct push rig will be used, equipped with a Membrane Interface Probe/ Electrical Conductivity Probe System (MIP/EC). The MIP will be equipped with laboratory-grade Photoionization Detector (PID), Flame Ionization Detector (FID) and Electron Capture Detector (ECD) detectors. The probe will also be equipped with a Hydraulic Profiling Tool (HPT) to measure qualitative levels of water pressure, water flow rate, and soil conductivity.
- MIP confirmation groundwater sampling – Subsequent to the MIP investigation, up to ten MIP locations will be chosen by the project team for confirmation groundwater sampling using temporary wells. The sampled locations would be chosen to confirm the edges of the plume. The analysis would be for VOCs.
- Monitoring well installation with hollow stem auger – Twelve monitoring wells will be installed using 4.25 inch hollow stem augers per the generic QAPP. The locations will be determined after reviewing the MIP data. Six wells will be installed to 100 feet bgs (assume two days per well). Six wells will be installed to 40 feet bgs (assume one day per well), and 10 wells to 15 feet bgs (assume two wells per day). The project manager will make one site visit during drilling.
 - The 22 water table, intermediate and deep zone wells will be constructed of 4 inch diameter Schedule 40 PVC with 10-slot well screen
 - Two PIDs and one particulate monitor with data logging capability will be present and active at the Site at all times during the drilling activities to satisfy the requirements of the NYSDOH generic Community Air Monitoring Plan (CAMP).
 - Monitoring wells will be developed. A minimum of 48 hours will be allowed between well installation and well development. Wells will be developed until the turbidity of the water is less than 50 NTUs and the water quality parameters have stabilized within +/- 10% or to the extent possible in 4 hours.
- Synoptic water levels will be recorded from the newly installed monitoring wells and the existing Charlton Cleaners wells in the source zone in order to develop an understanding of groundwater flow from the source to the plume. It is assumed that synoptic water levels will

be collected on the day prior to initiating monitoring well sampling. Depth to water measurements will be recorded to the closest 100th of an inch.

- Monitoring well sampling (round 1) - Groundwater samples will be collected at 22 new monitoring wells and at 15 existing wells east of Barrett Avenue. It is assumed that a two person team can sample four wells per day. The project manager will make one site visit during sampling. Samples will be collected using the EPA Low Flow Sampling method. Water quality parameters will be recorded during purging. Groundwater samples will be analyzed by a NYSDOH approved, ELAP certified laboratory for TCL VOCs. To provide information for the analysis of natural attenuation and remedial alternatives, TAL inorganics (minus Hg and CN) and MNA parameters will be measured at wells in the plume, ideally in the plume centerline heading downgradient from the source. It is assumed that MNA parameters and TAL inorganics will be analyzed at half of the monitoring wells.
- Vapor Sampling – Sub-slab vapor samples and indoor air samples will be collected at seven locations and analyzed for volatile organics (TO15). These samples will be collected during the winter heating season. Locations will be chosen based on results of the groundwater sampling.

Task 3 – Phase II Remedial Investigation

This task includes the labor and subcontractor support to complete the Phase II Remedial Investigation. This Task will include mobilization, and a second round of groundwater sampling, water level measurements, and soil vapor sampling. The same assumptions regarding time and personnel in Round 1 apply to Round 2. These activities are discussed in detail below.

- Synoptic water levels will be recorded from the newly installed monitoring wells and the five existing Charlton Cleaners well nests east of Barrett Avenue in order to develop an understanding of groundwater flow from the source to the plume. The synoptic water levels will be collected on the same day prior to monitoring well sampling. Depth to water measurements will be recorded to the closest 100th of an inch.
- Monitoring well sampling (round 2)- Groundwater samples will be collected at 22 monitoring wells and at 15 existing wells east of Barrett Avenue. Samples will be collected using the EPA Low Flow Sampling method. Water quality parameters will be recorded during purging. Groundwater samples will be analyzed by a NYSDOH approved, ELAP certified laboratory for TCL VOCs. To provide information for the analysis of natural attenuation and remedial alternatives, TAL Inorganics (minus Hg and CN) and MNA parameters will be measured at wells in the plume, ideally in the plume centerline heading downgradient from the source. It is assumed that MNA parameters and TAL inorganics will be analyzed at half of the monitoring wells.
- Compound Specific Isotope Analysis (CSIA) – If the VOC and MNA parameter data from Round 1 of the groundwater sampling do not rule out Monitored Natural Attenuation as an alternative to consider in the FS, a CSIA study will be conducted during Round 2 groundwater sampling. Groundwater samples will be collected from four wells in the source zone, and eight wells in the downgradient plume. Samples will be collected using the EPA Low Flow Sampling method. Groundwater samples will be analyzed for isotopes of chlorine and carbon to document natural attenuation of the site-related contaminants.

Task 4 – Data Management

CDM Smith has included a task for data management. Activities include the preparation of:

- Well construction logs of monitoring wells
- Investigation logs for each MIP location
- EDDs of the following:
 - Well construction data and x/y/z coordinates
 - Phase I Remedial Investigation data (both field and laboratory)
 - Phase II Remedial Investigation data (both field and laboratory)
- A Geographic Information System (GIS) and 3d-visualization

Task 5 – Remedial Investigation Report

This task includes the effort to reduce, tabulate, and evaluate the data collected during the field activities, develop report graphics and write and assemble the RI Report. This cost estimate assumes that the data reported in the RI is limited to data collected during Task 3 and 4. The report will be prepared following DER-10 requirements. In addition, the report will include an evaluation of natural attenuation. The estimated hours needed to prepare drafts of the following sections are:

- Background – 8 hours
- Summary of Field Investigation – 24 hours
- Physical setting – 40 hours
- Nature and Extent of Contamination – 100 hours
- Fate and Transport – 80 hours
- Summary and Conclusions – 16 hours
- Tables, Figures, Appendices – 150 hours

A total of one hard copy and two electronic copies of a draft RI report will be submitted by CDM Smith that documents the work conducted and presents the results of the sample analysis for review and comment by NYSDEC and NYSDOH. CDM Smith shall revise the draft RI report and print the requested number of copies based on receipt of the comment letter. Two hard copies and two electronic copies of the final RI report will be submitted; text, tables, maps, photos, etc., will be submitted as a single .pdf file. All electronic files will be submitted to NYSDEC either on a compact disc or via the Internet.

All samples will be analyzed by a NYSDOH approved ELAP certified laboratory. Table 1 shows a summary of samples to be collected and analytical methods, and QA/QC sample requirements. A NYSDEC ASP Category B data deliverable will be provided for these analyses.

All samples run for laboratory analysis will be validated in accordance with NYSDEC Data Usability Summary Report (DUSR) guidance by a party that is independent of the laboratory that performed the analyses and CDM Smith. A usability analysis will be conducted by a qualified data validator and a DUSR will be submitted to the NYSDEC.

Task 6 – Feasibility Study Report

Under this task, process options will be evaluated and alternatives will be developed and screened qualitatively against three criteria: effectiveness, implementability, and relative cost. Approximately 20 process options will be evaluated; each will require approximately eight hours for a site-specific evaluation. A range of alternatives will be developed that consider both standard and innovative remedial technologies for treatment of contaminated groundwater and soil vapor. CDM Smith assumes that three (3) alternatives will be evaluated for groundwater and two (2) for vapor. No action and predisposal conditions alternatives will be developed and evaluated. This totals six (6) active remedies and one no-action alternative. Each alternative requires approximately 40 hours to develop.

Two copies of a draft Feasibility Study (FS) Report will be submitted by CDM Smith to NYSDEC and NYSDOH for review and comments. CDM Smith shall revise the draft FS Report and print the requested number of copies based on receipt of the comment letter. One copy of the final FS Report; text, tables, maps, photos, etc., will be submitted as a single .pdf file. All electronic files will be submitted to NYSDEC on a compact disc or via the Internet.

Task 7 – PRAP and ROD Support

CDM will provide support for public meeting and technical support for the preparation of the PRAP and ROD. This task includes 1 trip to the site for the public meeting for the project manager and the project engineer.

Note: The electron capture detector's limit of detection is approximately 250 ug/L. Thus, the most upgradient MIP Locations should be advanced first. The next downgradient row of locations should be investigated only if a response is observed in the previous upgradient row.



Legend



Proposed MIP Location



2010 Shallow Groundwater ToiVOC Results

Approximate Culvert Location

0 50 100 150 200 Feet

Proposed MIP and Soil Vapor Sample Locations

Figure 1
Former Charlton Cleaners
Port Richmond, NY



Table 1
Sample List
Charlton Cleaners
Port Richmond, NY

Sample Type	Sample Count	Analysis	Method	Comment
MIP Confirmation Groundwater Sample				
Environmental	10	VOCs	8260	10 locations with one sample per location
Duplicate	1	VOCs	8260	1 per 20 samples
Field Blank	3	VOCs	8260	1 per roll of tubing
Trip Blank	10	VOCs	8260	1 per day
MS/MSD	2	VOCs	8260	1 MS/MSD set per 20 samples
Monitoring Well Sampling				
Environmental	74	VOCs	8260	Two rounds. 22 new wells and 15 existing wells. Metals and MNA parameters sampled only in the Round 1 sampling of the 15 existing wells and the 12 deep or intermediate zone wells.
	27	TAL Inorganics (minus Hg and CN)	6010B	
	27	Nitrate	SM 4500-NO ₃ , 300.0	
	27	Nitrite	SM 4500-NO ₂ , 300.0	
	27	Sulfate	375.2, 300.0	
	27	Sulfide	SM 4500-S ²	
	27	Chloride	SM 4500-C1	
	27	Alkalinity	SM2320B	
	27	Total organic carbon	415.1	
	27	Methane, ethane, ethene	RSK 147	
	12	CSIA	N/A	
Duplicate	4	VOCs	8260	1 per 20 samples
	2	TAL Inorganics (minus Hg and CN)	6010B	
	2	Nitrate	SM 4500-NO ₃ , 300.0	
	2	Nitrite	SM 4500-NO ₂ , 300.0	
	2	Sulfate	375.2, 300.0	
	2	Sulfide	SM 4500-S ²	
	2	Chloride	SM 4500-C1	
	2	Alkalinity	SM2320B	
	2	Total organic carbon	415.1	
	2	Methane, ethane, ethene	RSK 147	

Table 1
Sample List
Charlton Cleaners
Port Richmond, NY

Sample Type	Sample Count	Analysis	Method	Comment
Field Blank	19	VOCs	8260	1 field blank per day
	7	TAL Inorganics (minus Hg and CN)	6010B	
	0	Nitrate	SM 4500-NO ₃ , 300.0	
	0	Nitrite	SM 4500-NO ₂ , 300.0	
	0	Sulfate	375.2, 300.0	
	0	Sulfide	SM 4500-S ²	
	0	Chloride	SM 4500-C1	
	0	Alkalinity	SM2320B	
	0	Total organic carbon	415.1	
	7	Methane, ethane, ethene	RSK 147	
Trip Blank	19	VOCs	8260	1 trip blank per day
	7	Methane, ethane, ethene	RSK 147	
MS/MSD	4	VOCs	8260	1 MS/MSD set per 20 samples
	2	TAL Inorganics (minus Hg and CN)	6010B	
	2	Methane, ethane, ethene	RSK 147	
Soil Vapor				
Environmental	28	VOCs	TO15	Two rounds. 7 locations, sub-slab and indoor air in each.
Duplicate	2	VOCs	TO15	1 per 20 samples
Ambient	2	VOCs	TO15	1 ambient air sample per day

Project Schedule - Charlton Cleaners

Task	Schedule	Duration
Task 1 - Preliminary Activities	February/March 2013	2 months
Task 2 - Phase I Remedial Investigation		
MIP Investigation and Management	April 2013	6 weeks
Monitoring Well Installation Oversight and Management	June 2013	5 weeks
Well Development	July 2013	11 days
Groundwater Elevation Survey (R1)	July 2013	1 day
Groundwater Sampling (R1)	August 2013	2 weeks
Survey Oversight	July 2013	3 days
IDW Oversight	August 2013	3 days
Task 3 - Phase II Remedial Investigation		
Groundwater Elevation Survey (R2)	December 2013	1 day
Groundwater Sampling (R2)	December 2013	2 weeks
Vapor Sampling	December 2013	5 days
IDW Oversight	January 2014	3 days
Task 4 - Data Management		
Phase I	August/September 2013	8 weeks
Phase II	December 2013/January 2014	8 weeks
Task 5 - Remedial Investigation Report		
Draft	March 2013	8 weeks
Final	June 2013	2 weeks
Task 6 - Feasibility Study		
Draft	August 2014	12 weeks
Final	November 2014	4 weeks
Task 7 - Public Meeting Assistance and PRAP Support	2015	3 months

Schedule 2.11(a)
Summary of Work Assignment Price
Work Assignment No. D007621-10

1) Direct Salary Costs (Schedule 2.10(a) and 2.11(b))	\$106,503.83	
2) Indirect Costs (Schedule 2.10(g))	<u>\$173,665.15</u>	
3) Direct Non-Salary Costs (Schedule 2.10(b, c), and 2.11(c))	<u>\$36,412.00</u>	
4) Subcontract Costs		
Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.10(e) and 2.11(d))		
<u>Name of Subcontractor</u>	<u>Services Performed</u>	<u>Price</u>
i) Kennon	Topographic Survey	\$3,120.00
A) Total Cost-Plus-Fixed-Fee Subcontracts		<u>\$3,120.00</u>
<u>Unit Price Subcontracts (Schedule 2.10(f) and 2.11(e))</u>		
<u>Name of Subcontractor</u>	<u>Services Performed</u>	<u>Price</u>
i) Con-Test	Laboratory	\$24,452.28
ii) Zebra Environmental	MiHPT	\$124,905.00
iii) Seacoast Environmental	IDW	\$31,971.00
iv) Geologic	Drilling	\$76,863.39
v) University of Oklahoma	CSIA Laboratory	\$12,600.00
vii) EQA	Data validation	\$5,699.78
B) Total Unit Price Subcontracts		<u>\$276,491.45</u>
C) Subcontract Management Fee		<u>\$13,539.58</u>
D) Total Subcontract Costs (lines 4A + 4B + 4C)		<u>\$293,151.03</u>
5) Fixed Fee (Schedule 2.10(h))		<u>\$22,413.52</u>
6) Total Work Assignment Price (Lines 1 + 2 + 3 + 4D + 5)		\$632,145.53

Engineer/Contract # - CDM/D007621
Project Name - Charlton Cleaners
Work Assignment No. - D007621-10

Schedule 2.11(b)
Direct Labor Hours Budgeted

<i>Labor Classification</i>	IX		VIII		VII		VI		V		IV		III		II		I		Total Hours	Total Costs
Year 2013	Hours	\$67.72	Hours	\$63.41	Hours	\$56.09	Hours	\$48.18	Hours	\$41.63	Hours	\$36.53	Hours	\$31.08	Hours	\$26.80	Hours	\$21.22		
Task 1 - Preliminary Activities																				
Task 1.1 - Work Plan Prep - Direct Labor	2	\$135.44	0	\$0.00	0	\$0.00	32	\$1,541.76	110	\$4,579.30	0	\$0.00	0	\$0.00	60	\$1,608.00	0	\$0.00	204	\$7,864.50
- Task 1.1 Adminstrative		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	8	\$169.76	8	\$169.76
Task 1.2 - Project Meetings - Direct Labor	0	\$0.00	0	\$0.00	0	\$0.00	15	\$722.70	20	\$832.60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	35	\$1,555.30
Task 1.3 - Project Management - Direct Labor	0	\$0.00	0	\$0.00	0	\$0.00	6	\$289.08	22	\$915.86	0	\$0.00	0	\$0.00	22	\$589.60	0	\$0.00	50	\$1,794.54
Task 2 - Phase I Remedial Investigation - Direct Labor																				
Task 2.1 - Survey Oversight	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	4	\$166.52	0	\$0.00	0	\$0.00	24	\$643.20	0	\$0.00	28	\$809.72
Task 2.2 - MIP Investigation	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	74	\$3,080.62	0	\$0.00	300	\$9,324.00	0	\$0.00	0	\$0.00	374	\$12,404.62
Task 2.3 - Well Installation	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	43	\$1,790.09	0	\$0.00	360	\$11,188.80	0	\$0.00	0	\$0.00	403	\$12,978.89
Task 2.4 - Groundwater Sampling	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	10	\$416.30	0	\$0.00	130	\$4,040.40	120	\$3,216.00	0	\$0.00	260	\$7,672.70
Task 2.5 - Phase I IDW Management	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	1	\$41.63	0	\$0.00	0	\$0.00	8	\$214.40	0	\$0.00	9	\$256.03
Task 3 - Phase II Remedial Investigation - Direct Labor																				
Task 3.1 - Groundwater Sampling	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	10	\$416.30	0	\$0.00	130	\$4,040.40	120	\$3,216.00	0	\$0.00	260	\$7,672.70
Task 3.2 - Phase II IDW Management	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	1	\$41.63	0	\$0.00	0	\$0.00	8	\$214.40	0	\$0.00	9	\$256.03
Task 4 - Data Management - Direct Labor																				
Task 4.1 - Data Management	0	\$0.00	0	\$0.00	80	\$4,487.20	0	\$0.00	20	\$832.60	0	\$0.00	100	\$3,108.00	0	\$0.00	0	\$0.00	200	\$8,427.80
Task 5 - Remedial Investigation Report - Direct Labor																				
Task 5.1 - Draft RI	16	\$1,083.52	8	\$507.28	24	\$1,346.16	0	\$0.00	100	\$4,163.00	0	\$0.00	110	\$3,418.80	80	\$2,144.00	0	\$0.00	338	\$12,662.76
- Task 5.1 - Adminstrative		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	12	\$254.64	12	\$254.64
Task 5.2 - Final RI	8	\$541.76	0	\$0.00	8	\$448.72	0	\$0.00	24	\$999.12	0	\$0.00	48	\$1,491.84	0	\$0.00	0	\$0.00	88	\$3,481.44
- Task 5.2 - Adminstrative		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	12	\$254.64	12	\$254.64
Subtotal Hours	26		8		112		53		439		0		1178		442		32		2290	
Subtotal Cost	\$1,760.72		\$507.28		\$6,282.08		\$2,553.54		\$18,275.57		\$0.00		\$36,612.24		\$11,845.60		\$679.04		\$78,516.07	
<i>Labor Classification</i>	IX		VIII		VII		VI		V		IV		III		II		I		Total Hours	Total Costs
Year 2014	Hours	\$69.75	Hours	\$65.31	Hours	\$57.77	Hours	\$49.63	Hours	\$42.88	Hours	\$37.63	Hours	\$32.01	Hours	\$27.60	Hours	\$21.86		
Task 1.3 - Project Management - Direct Labor	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	24	\$1,029.09	0	\$0.00	0	\$0.00	24	\$662.50	0	\$0.00	48	\$1,691.59
Task 2.6- Vapor Sampling	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$85.76	50	\$1,881.30	0	\$0.00	50	\$1,380.20	0	\$0.00	102	\$3,347.25
Task 6 - Feasibility Study Report - Direct Labor		\$0.00		\$0.00																
Task 6.1 - Draft FS	24	\$1,674.04	8	\$522.50	0	\$0.00	0	\$0.00	100	\$4,287.89	140	\$5,267.63	0	\$0.00	140	\$3,864.56	0	\$0.00	412	\$15,616.61
- Task 6.1 - Adminstrative		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	12	\$262.28	12	\$262.28
Task 6.2 - Final FS	8	\$558.01	0	\$0.00	0	\$0.00	0	\$0.00	48	\$2,058.19	48	\$1,806.04	0	\$0.00	24	\$662.50	0	\$0.00	128	\$5,084.74
- Task 6.2 - Adminstrative		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	12	\$262.28	12	\$262.28
Subtotal Hours	32		8		0		0		174		238		0		238		24		714	
Subtotal Cost	\$2,232.05		\$522.50		\$0.00		\$0.00		\$7,460.93		\$8,954.96		\$0.00		\$6,569.75		\$524.56		\$26,264.75	

<i>Labor Classification</i>	IX		VIII		VII		VI		V		IV		III		II		I		Total Hours	Total Costs
Year 2015	Hours	\$71.84	Hours	\$67.27	Hours	\$59.51	Hours	\$51.11	Hours	\$44.17	Hours	\$38.75	Hours	\$32.97	Hours	\$28.43	Hours	\$22.51		
Task 1.3 - Project Management - Direct Labor	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	6	\$264.99	0	\$0.00	0	\$0.00	6	\$170.59	0	\$0.00	12	\$435.58
Task 7 - Community Relations/PRAP/ROD Support - Direct Labor																				
Task 7 - Community Relations/PRAP/ROD Support	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	24	\$1,059.97	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	24	\$1,059.97
- Task 7- Adminstrative		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	8	\$227.46	0	\$0.00	8	\$227.46
Subtotal Hours	0		0		0		0		30		0		0		14		0		44	
Subtotal Cost	\$0.00		\$0.00		\$0.00		\$0.00		\$1,324.96		\$0.00		\$0.00		\$398.05		\$0.00		\$1,723.01	

Total Administrative	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	8	\$227.46	56	\$1,203.60	64	\$1,431.06
Total All Hours	58		16		112		53		643		238		1178		694		56		3048	
Total All Cost	\$3,992.77		\$1,029.78		\$6,282.08		\$2,553.54		\$27,061.46		\$8,954.96		\$36,612.24		\$18,813.40		\$1,203.60		\$106,503.83	

Schedule 2.11 (c)
Direct Non-Salary Costs
(Includes Equipment and Consumables)
Work Assignment No. D007621-10

Item	Max Reimbursement Rate (Specify Unit)	Est. # of Units	Total Estimated Cost
<u>A) Non-Salary Costs</u>			
1) Shipping - Fed Ex (office)	LS	1	\$500.00
2) Shipping - Fed Ex (Field)	LS	1	\$4,800.00
		Subtotal	\$5,300.00

A) Rental Equipment

1) YSI 600 XL water quality meter	\$ 165.00	Week	9	\$1,485.00
2) Handheld GPS	\$ 825.00	Month	2	\$1,650.00
3) Water Level Indicator (per day) - 200 ft	\$ 13.75	Day	44	\$605.00
4) Peristaltic Pump (Geopump or	\$ 75.00	Week	6	\$450.00
5) MiniRae 3000	\$ 110.00	Week	10	\$1,100.00
6) Grundfos Rediflo Submersible	\$ 26.13	Day	40	\$1,045.20
7) Portable Honda Generator	\$ 24.75	Day	40	\$990.00
8) Dust Monitor #1 MIE DR-4000 (includes associated auxiliary equipment for upgradient community air monitoring station)	\$ 247.50	Week	5	\$1,237.50
9) Dust Monitor #2 MIE DR-4000 (includes associated auxiliary equipment for downgradient community air monitoring station)	\$ 247.50	Week	5	\$1,237.50
10) PID #1 - MiniRAE 3000 (for	\$ 110.00	Week	5	\$550.00
11) Lamp 11.7 eV Interchangeable	\$ 41.25	Week	5	\$206.25
12) PID #2 - MiniRAE 3000 (for breathing zone and headspace readings)	\$ 110.00	Week	5	\$550.00
13) Lamp 11.7 eV Interchangeable (for breathing zone and headspace readings collected with PID #2)	\$ 41.25	Week	5	\$206.25
14) Combustible Gas Indicator	\$ 82.50	Week	5	\$412.50
15) JOBCOM Radio VHF JMS-141-D	\$ 33.00	Week	5	\$165.00
16) Ferrous Iron field test	\$ 29.55	box of 25 ampules	2	\$59.10
17) HACH DR/890 Colorimeter for	\$ 82.50	Week	2	\$165.00
18) Teflon Tubing	\$ 1.35	foot	2000	\$2,700.00
		Subtotal		\$14,814.30

Item	Max Reimbursement Rate (Specify Unit)	Est. # of Units	Total Estimated Cost
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C) Miscellaneous (Meals, Lodging, Mileage, LVE)

1) Mileage	\$0.565 /mile	180	\$101.70
2) Rental Car	\$438.00 /week	27	\$11,826.00
3) Rental Car Fuel and Tolls	\$62.00 /week	27	\$1,674.00
4) Ice	\$2.00 /Each	88	\$176
5) LVE	\$1.00 /hour	1260	\$1,260.00
6) PPE	\$10.00 /day/person	126	\$1,260.00
Subtotal			\$16,297.70

Total Direct Non-Salary Cost	\$36,412.00
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Schedule 2.11(e)
Unit Price Subcontracts
Work Assignment No. D007621-10
2012

<u>Name of Subcontractor</u>	<u>Services to be Performed</u>	<u>Subcontractor Price</u>	<u>Management Fee</u>	<u>MBE/WBE</u>
Kennon Surveying	Well Survey	\$3,120	NA	

<u>Item</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Total Cost</u>
<u>Laboratory Analysis</u>				
Survey Crew	\$200.00 hour		10	\$2,000
Project Surveyor	\$130.00 hour		6	\$780
Licensed Surveyor	\$170.00 hour		2	\$340
			Subtotal	\$3,120
Subtotal-Subcontract Price				\$3,120.00
Management Fee (5%)				NA
			Total Cost	\$3,120.00

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Schedule 2.11(e)
Unit Price Subcontracts
Work Assignment No. D007621-10
2012

<u>Name of Subcontractor</u>	<u>Services to be Performed</u>	<u>Subcontractor Price</u>	<u>Management Fee</u>	<u>MBE/WBE</u>
Con-Test	Laboratory Analysis	\$24,452	\$1,222.61	

<u>Item</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Total Cost</u>	
<u>Laboratory Analysis</u>					
VOCs	\$ 58.20	Each	146	\$ 8,497.59	\$ 55.14
TAL Inorganics (minus Hg and CN)	\$ 106.19	Each	38	\$ 4,035.39	
Alkalinity	\$ 9.19	Each	29	\$ 266.51	
Chloride	\$ 9.19	Each	29	\$ 266.51	
Total Organic Carbon	\$ 18.38	Each	29	\$ 533.01	
Nitrate	\$ 12.25	Each	29	\$ 355.34	
Nitrite	\$ 12.25	Each	29	\$ 355.34	
Sulfate	\$ 14.30	Each	29	\$ 414.57	
Sulfide	\$ 8.17	Each	29	\$ 236.90	
Methane, ethane, ethene	\$ 76.58	Each	45	\$ 3,446.21	
Vapor VOCs	\$ 188.90	Each	32	\$ 6,044.91	
			Subtotal	\$ 24,452.28	
Subtotal-Subcontract Price				\$ 24,452.28	
Management Fee (5%)				\$1,222.61	
			Total Cost	\$ 25,674.90	

NYSDEC ASP Category B reporting deliverable with EDD
Standard turnaround time

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Schedule 2.11(e)
Unit Price Subcontracts
Work Assignment No. D007621-10
2013

<u>Name of Subcontractor</u>	<u>Services to be Performed</u>	<u>Subcontractor Price</u>	<u>Management Fee</u>	<u>MBE/WBE</u>
Zebra Environmental	MIP	\$124,905	\$6,245.25	

<u>Item</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Total Cost</u>
MOB/DEMOB				
Mob/Demob Geoprobe	\$ 3,000.00	each	1	\$ 3,000.00
MIP RIG AND CREW				
Geoprobe Unit w/ Operator	\$ 1,595.00	day	29	\$ 46,255.00
MIP Unit				
MIP Setup	\$ 500.00		1	\$ 500.00
MIP Footage	\$ 3.50		2000	\$ 7,000.00
MiHPT Unit	\$ 2,100.00		29	\$ 60,900.00
Groundwater sample	Included	sample	10	
Data/project management	Included	total		
Per Diem	\$ 250.00	total	29	\$ 7,250.00
			Subtotal	\$ 124,905.00
Subtotal-Subcontract Price				\$124,905.00
Management Fee (5%)				\$6,245.25
Total Cost				\$131,150.25

NYSDEC ASP Category A reporting deliverable with EDD
Standard turnaround time
Prices include 3% CPI increase on 2012 rates

Schedule 2.11(e)
Unit Price Subcontracts
Work Assignment No. D007621-10
2013

<u>Name of Subcontractor</u>	<u>Services to be Performed</u>	<u>Subcontractor Price</u>	<u>Management Fee</u>	<u>MBE/WBE</u>
Seacoast Environmental	IDW	\$31,971	\$1,598.55	

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
55-gallon drums of soil (non-hazardous)	each	31	\$ 55.00	\$ 1,705.00
Forklift and operator to load drums (one day)	each	1	600	\$ 600.00
Transport of 55-gallon drums from site to disposal facility	lump	1	\$ 1,200.00	\$ 1,200.00
Delivery and removal of 10,000 tank	each	3	\$ 800.00	\$ 2,400.00
Monthly rental of 10,000 gallon tank	month	9	\$ 1,050.00	\$ 9,450.00
Tank cleaning of 10,000 gallon tank	each	3	\$ 1,400.00	\$ 4,200.00
Disposal of non hazardous bulk purge water	gallon	26400	\$ 0.34	\$ 8,976.00
Transportation of bulk water	each	1		\$ -
Sampling mobilization	each	2	\$ 250.00	\$ 500.00
Compliance samples	each	3	\$ 980.00	\$ 2,940.00
Subtotal				\$31,971.00
Subtotal-Subcontract Price				\$31,971.00
Management Fee (5%)				\$1,598.55
Total Cost				\$33,569.55

OPTIONAL				
Disposal TSCA waste water	gallon	0	\$ 2.45	\$ -
Transportation of TSCA waste water	lump	0	\$ 6,000.00	\$ -
Disposal TSCA\RCRA waste water	gallon	0	\$ 3.10	\$ -
Transportation of TSCA/ RCRA waste water	gallon	0	\$ 6,800.00	\$ -
55-gallon drums of soil RCRA only hazardous	each	0	\$ 125.00	\$ -
55-gallon drums TSCA only hazardous soil no free liquids	each	0	\$ 125.00	\$ -

Schedule 2.11(e)
Unit Price Subcontracts
Work Assignment No. D007621-10
2013

<u>Name of Subcontractor</u>	<u>Services to be Performed</u>	<u>Subcontractor Price</u>	<u>Management Fee</u>	<u>MBE/WBE</u>
GeoLogic	Drilling	\$76,863	\$3,843.17	
Item	Rate	Units	Quantity	Total Cost
1. GENERAL				
Mobilization - 1 Truck mounted HSA Rig	\$ 27,000.00	each	1	\$ 27,000.00
Con/decon of decontamination pad	\$ 127.64	each	1	\$ 127.64
Personal protective equipment	included	per day per person	30	
Steam Cleaning	\$ 81.69	hour	30	\$ 2,450.64
55-Gallon Drums (contain cuttings)	\$ 27.57	each	50	\$ 1,378.49
Transport/Handling of IDW (per drum)	\$ 40.84	each	50	\$ 2,042.20
Well Development - pump and surge method (w/surge block)	\$ 81.69	hour	88	\$ 7,188.54
Transport/Handling of development water	\$ 0.41	gallon	26400	\$ 10,824.00
Standby crew and rig	\$ 81.69	hour	8	\$ 653.50
Temporary Fence	\$ 3,500.00		1	\$ 3,500.00
2. Monitoring Well Installation				
4.25 inch diameter hollow stem auger (0-50 ft) - no sampling	\$ 8.17	foot	690	\$ 5,636.47
4.25 inch diameter hollow stem auger (50-100 ft) - no sampling	\$ 11.23	foot	300	\$ 3,369.63
3. Materials				
2-inch dia., Schedule 40 PVC well casing	\$ 11.23	foot	770	\$ 8,648.72
2-inch dia., Schedule 40 PVC, 10-slot well screen	\$ 11.23	foot	220	\$ 2,471.06
Well Completion Materials (sand pack for 2 inch MW)	--	foot	286	--
Well Completion Materials (bentonite seal for 2 inch MW)	--	foot	44	--
Well Completion Materials (grout for 2 inch MW)	--	foot	660	--
Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	\$ 71.48	foot	22	\$ 1,572.49
			Subtotal	\$ 76,863.39
Subtotal-Subcontract Price				\$76,863.39
Management Fee (5%)				\$3,843.17
			Total Cost	\$80,706.55

NYSDEC ASP Category A reporting deliverable with EDD
Standard turnaround time
Prices include 3% CPI increase on 2012 rates

Schedule 2.11(e)
Unit Price Subcontracts
Work Assignment No. D007621-10
2012

<u>Name of Subcontractor</u>	<u>Services to be Performed</u>	<u>Subcontractor Price</u>	<u>Management Fee</u>	<u>MBE/WBE</u>
University of Oklahoma, Tomasz Kuder	CSIA	\$12,600	\$630.00	

<u>Item</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Total Cost</u>
<u>Laboratory Analysis</u>				
CSIA- Chlorine (PCE)	\$400.00	sample	12	\$4,800
CSIA- Carbon (PCE)	\$350.00	sample	12	\$4,200
CSIA- Chlorine (TCE)	\$50.00	sample	12	\$600
CSIA- Carbon (TCE)	\$50.00	sample	12	\$600
CSIA- Chlorine (DCE)	\$50.00	sample	12	\$600
CSIA- Carbon (DCE)	\$50.00	sample	12	\$600
CSIA- Chlorine (VC)	\$50.00	sample	12	\$600
CSIA- Carbon (VC)	\$50.00	sample	12	\$600
			Subtotal	\$12,600
Subtotal-Subcontract Price				\$12,600.00
Management Fee (5%)				\$630.00
			Total Cost	\$13,230.00

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Schedule 2.11(e)
Unit Price Subcontracts
Work Assignment No. D007621-10
2013

<u>Name of Subcontractor</u>	<u>Services to be Performed</u>	<u>Subcontractor Price</u>	<u>Management Fee</u>	<u>MBE/WBE</u>
Environmental Quality Associates (EQA)	Data Validation	\$5,700	NA	WBE

<u>Item</u>	<u>Rate</u>	<u>Units</u>	<u>Quantity</u>	<u>Total Cost</u>
<u>Laboratory Analysis</u>				
<u>Aqueous</u>				
TCL Volatiles (low conc.)	\$ 17.36	Sample	146	\$ 2,534.37
TAL Inorganics (minus Hg and CN)	\$ 20.42	Sample	38	\$ 776.04
Alkalinity	\$ 4.08	Sample	29	\$ 118.45
Chloride	\$ 4.08	Sample	29	\$ 118.45
Total Organic Carbon	\$ 5.11	Sample	29	\$ 148.06
Nitrate	\$ 5.11	Sample	29	\$ 148.06
Nitrite	\$ 5.11	Sample	29	\$ 148.06
Sulfate	\$ 5.11	Sample	29	\$ 148.06
Sulfide	\$ 5.11	Sample	29	\$ 148.06
Methane, ethane, ethene	\$ 15.32	Sample	45	\$ 689.24
Full TCLP	\$ 8.68	Sample	8	\$ 69.43
	\$ -			
<u>Soil Vapor</u>				
	\$ -			
Vapor VOCs	\$ 20.42	Sample	32	\$ 653.50
Subtotal				\$5,699.78
Subtotal-Subcontract Price				\$5,699.78
				NA
Total Cost				\$5,699.78

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Schedule 2.11(f) - Summary
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith
Task #/Name: Summary
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$106,503.83	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$173,665.15	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$280,168.98	\$0.00
4. Travel				\$0.00		\$0.00	\$16,297.70	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$20,114.30	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$36,412.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$279,611.45	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$13,539.58	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$609,732.01	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$22,413.52	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$632,145.53	\$0.00

Schedule 2.11(f)
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith
Task #/Name: Task 1 - Preliminary Activities
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$13,511.27	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$22,031.48	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$35,542.76	\$0.00
4. Travel				\$0.00		\$0.00	\$0.00	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$0.00	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$0.00	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$35,542.76	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$2,843.42	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$38,386.18	\$0.00

Schedule 2.11(f)
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith
Task #/Name: Task 2 - Phase I Remedial Investigation
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$37,725.24	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$61,514.78	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$99,240.02	\$0.00
4. Travel				\$0.00		\$0.00	\$16,297.70	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$20,114.30	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$36,412.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$238,820.67	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$11,941.03	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$386,413.72	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$7,939.20	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$394,352.93	\$0.00

Schedule 2.11(f)
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith
Task #/Name: Task 3 - Phase II Remedial Investigation
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$7,672.70	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$12,511.10	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$20,183.80	\$0.00
4. Travel				\$0.00		\$0.00	\$0.00	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$40,790.78	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$1,598.55	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$62,573.13	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$1,614.70	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$64,187.84	\$0.00

Schedule 2.11(f)
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith
Task #/Name: Task 4 - Data Management
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$8,427.80	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$13,742.37	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$22,170.17	\$0.00
4. Travel				\$0.00		\$0.00	\$0.00	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$0.00	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$0.00	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$22,170.17	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$1,773.61	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$23,943.78	\$0.00

Schedule 2.11(f)
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith
Task #/Name: Task 5 - Remedial Investigation Report
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$16,653.48	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$27,155.16	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$43,808.64	\$0.00
4. Travel				\$0.00		\$0.00	\$0.00	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$0.00	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$0.00	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$43,808.64	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$3,504.69	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$47,313.34	\$0.00

Schedule 2.11(f)
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith
Task #/Name: Task 6 - Feasibility Study Report
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$21,225.91	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$34,610.97	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$55,836.88	\$0.00
4. Travel				\$0.00		\$0.00	\$0.00	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$0.00	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$0.00	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$55,836.88	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$4,466.95	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$60,303.83	\$0.00

Schedule 2.11(f)
Monthly Cost Control Report
Summary of Fiscal Information

Engineer: CDM Smith

Task #/Name: Task 7 -Public Meeting Assistance and PRAP Support

Complete:

Date Prepared:

Contract No.: D007621

Project Name: Charlton Cleaners

Work Assignment No.: D007621-10

Expenditure Category	A	B	C	D	E	F	G	H
	Costs Claimed This Period	Paid to Date	Total Disallowed to date	Total Costs Incurred to Date (A+B+C)	Estimated Costs to Completion	Estimated Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/Over (G-F)
1. Direct Salary Costs				\$0.00		\$0.00	\$1,287.42	\$0.00
2. Indirect Costs				\$0.00		\$0.00	\$2,099.27	\$0.00
3. Subtotal Direct and Indirect				\$0.00		\$0.00	\$3,386.70	\$0.00
4. Travel				\$0.00		\$0.00	\$0.00	\$0.00
5. Other Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
6. Subtotal Direct Non-Salary Costs				\$0.00		\$0.00	\$0.00	\$0.00
7. Subcontractors				\$0.00		\$0.00	\$0.00	\$0.00
7a. Subcontract Mgmt Fee				\$0.00		\$0.00	\$0.00	\$0.00
8. Total Work Assignment Cost				\$0.00		\$0.00	\$3,386.70	\$0.00
9. Fixed Fee				\$0.00		\$0.00	\$270.94	\$0.00
10. Total Work Assignment Price				\$0.00		\$0.00	\$3,657.63	\$0.00

**Schedule 2.11(f) - Supplemental
Cost Control Report for Subcontracts**

Engineer: CDM Smith
Task #/Name: Supplemental
Complete:
Date Prepared:

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

Subcontractor Name	A	B	C	D	E	F	G	H
	Subcontract Costs Claimed this Period	Subcontract Costs Paid to Date	Total Subcontract Costs Disallowed to Date	Total Subcontract Costs Incurred to Date (A+B-C)	Subcontract Approved Budget	Management Fee Budget	Management Fee Paid	Total Costs to Date
1. Surveyor - Kennon Surveying - MBE					\$3,120.00	\$0.00		
2. Data Validation - Environmental Quality Associates (EQA) -					\$5,699.78	\$0.00		
3. Laboratory - Con-Test					\$24,452.28	\$1,222.61		
4. CSIA Laboratory - University of Oklahoma, Tomasz Kuder					\$12,600.00	\$630.00		
5. Drilling - Geologic					\$76,863.39	\$3,843.17		
6. MIP - Zebra Environmental					\$124,905.00	\$6,245.25		
7. IDW - SeaCoast Environmental					\$31,971.00	\$1,598.55		
Totals					\$279,611.45	\$13,539.58		

Notes:

- Costs listed in Columns A, B, C, & D do not include any management fee costs.
- Management fee is applicable to only properly procured, satisfactorily completed, M/WBE or unit price subcontracts over \$10,000.

Schedule 2.11(g)
Monthly Cost Control Report
Summary of Labor Hours

Number of Direct Labor Hours Expended to Date/Estimated Number of Direct Labor Hours to Completion

Engineer: CDM Smith
Task #/Name: Labor Summary
Complete:
Date Prepared: 2/1/2012

Contract No.: D007621
Project Name: Charlton Cleaners
Work Assignment No.: D007621-10

NSPE Labor Classification	IX Exp./Est.	VIII Exp./Est.	VII Exp./Est.	VI Exp./Est.	V Exp./Est.	IV Exp./Est.	III Exp./Est.	II Exp./Est.	I Exp./Est.	Total Labor Hours Exp./Est.
Task 1 - Preliminary Activities	0 / 2	0 / 0	0 / 0	0 / 53	0 / 182	0 / 0	0 / 0	0 / 112	0 / 8	0 / 357
Task 2 - Phase I Remedial Investigation	0 / 0	0 / 0	0 / 0	0 / 0	0 / 134	0 / 50	0 / 790	0 / 202	0 / 0	0 / 1176
Task 3 - Phase II Remedial Investigation	0 / 0	0 / 0	0 / 0	0 / 0	0 / 11	0 / 0	0 / 130	0 / 128	0 / 0	0 / 269
Task 4 - Data Management	0 / 0	0 / 0	0 / 80	0 / 0	0 / 20	0 / 0	0 / 100	0 / 0	0 / 0	0 / 200
Task 5 - Remedial Investigation Report	0 / 24	0 / 8	0 / 32	0 / 0	0 / 124	0 / 0	0 / 158	0 / 80	0 / 24	0 / 450
Task 6 - Feasibility Study Report	0 / 32	0 / 8	0 / 0	0 / 0	0 / 148	0 / 188	0 / 0	0 / 164	0 / 24	0 / 564
Task 7 -Public Meeting Assistance and PRAP Support	0 / 0	0 / 0	0 / 0	0 / 0	0 / 24	0 / 0	0 / 0	0 / 8	0 / 0	0 / 32
Total Hours	0 / 58	0 / 16	0 / 112	0 / 53	0 / 643	0 / 238	0 / 1178	0 / 694	0 / 56	0 / 3048

EQUIPMENT

Item	Unit	Quantity	Pine Environmental		US Environmental		Environmental Equipment and Supply	
			Unit	Extended	Unit	Extended	Unit	Extended
YSI 600 XL water quality meter (per week)	Week	9	\$ 165.00	\$ 1,485.00	\$ 165.00	\$ 1,485.00	\$ 281.25	\$ 2,531.25
Handheld GPS	Month	2	\$ 825.00	\$ 1,650.00	\$ 1,800.00	\$ 3,600.00	\$ 843.75	\$ 1,687.50
Water Level Indicator (per day) - 200 ft	Day	44	\$ 13.75	\$ 605.00	\$ 12.00	\$ 528.00	\$ 18.75	\$ 825.00
Peristaltic Pump (Geopump or equivalent)	Week	6	\$ 75.00	\$ 450.00	\$ 30.00	\$ 180.00	\$ 56.25	\$ 337.50
MiniRae 3000 (per week)	Week	10	\$ 110.00	\$ 1,100.00	\$ 120.00	\$ 1,200.00	\$ 191.25	\$ 1,912.50
Grundfos Rediflo Submersible Pump and Controller (per day)	Day	40	\$ 26.13	\$ 1,045.20	\$ 60.00	\$ 2,400.00	\$ 153.75	\$ 6,150.00
Portable Honda Generator (per day)	Day	40	\$ 24.75	\$ 990.00	\$ 30.00	\$ 1,200.00	Not Available	
Dust Monitor #1 MIE DR-4000 (monthly) (includes associated auxiliary equipment for upgradient community air monitoring station)	Week	5	\$ 247.50	\$ 1,237.50	\$ 162.00	\$ 810.00	\$ 330.00	\$ 1,650.00
Dust Monitor #2 MIE DR-4000 (includes associated auxiliary equipment for downgradient community air monitoring station)	Week	5	\$ 247.50	\$ 1,237.50	\$ 162.00	\$ 810.00	\$ 330.00	\$ 1,650.00
PID #1 - MiniRAE 3000 (for downgradient community air monitoring station)	Week	5	\$ 110.00	\$ 550.00	\$ 105.00	\$ 525.00	\$ 191.25	\$ 956.25
Lamp 11.7 eV Interchangeable (for downgradient community air monitoring station equipped with PID #1)	Week	5	\$ 41.25	\$ 206.25	\$ 68.00	\$ 340.00	\$ 281.25	\$ 1,406.25
PID #2 - MiniRAE 3000 (for breathing zone and headspace readings)	Week	5	\$ 110.00	\$ 550.00	\$ 105.00	\$ 525.00	\$ 191.25	\$ 956.25
Lamp 11.7 eV Interchangeable (for breathing zone and headspace readings collected with PID #2)	Week	5	\$ 41.25	\$ 206.25	\$ 68.00	\$ 340.00	\$ 281.25	\$ 1,406.25
Combustible Gas Indicator (weekly)	Week	5	\$ 82.50	\$ 412.50	\$ 90.00	\$ 450.00	\$ 93.75	\$ 468.75
JOB COM Radio VHF JMS-141-D (for alarms on DR-4000s) (weekly)	Week	5	\$ 33.00	\$ 165.00	\$ 112.50	\$ 562.50	Not Available	
Teflon Tubing	foot	2000	\$ 1.35	\$ 2,700.00				
Ferrous Iron field test	box of 25 ampules	2	\$ 29.55	\$ 59.10	\$ 55.00	\$ 110.00	\$ 34.95	\$ 69.90
HACH DR/890 Colorimeter for Ferrous Iron Tests	Week	2	\$ 82.50	\$ 165.00	\$ 45.00	\$ 90.00	\$ 78.75	\$ 157.50
Total			\$ 14,814.30		\$ 15,155.50		\$ 22,164.90	

EQUIPMENT

Rental Company	Enterprise	National	National
Location	Greenpoint, Brooklyn, NY	E. 50th St, Manhattan, NY	Laguardia Airport, Queens, NY
Cost of minivan per week	\$438.00	\$596.00	\$668.00
Cost of standard car per week	\$342.00	\$460.32	\$515.00

SURVEYORS	Hirani				Kennon				Popli			
Item	Staff Level	Hourly Rate	Hours	Total Cost	Staff Level	Hourly Rate	Hours	Total Cost	Staff Level	Hourly Rate	Hours	Total Cost
Survey X/Y/Z coordinates of 22 groundwater monitoring wells. Z coordinate will be for (1) ground surface, (2) top of inner casing (measuring point elevation) and (3) top of outer casing. Will need coordinates in both lat/long and in NAD_1983_StatePlane_New_York_Long_Island_FIPS_3104_Feet				3,866.90				3,120.00				4556.72
	Project Mgr	175.00	1	175.00	Survey Crew	\$200	10	\$2,000	Sr Land Surv	37.49	2	74.98
	Licensed LS	135.00	2	270.00	Project Surveyor	\$130	6	\$780	CAD Drafter	31.64	4	126.56
	Office Survey	100.00	6	600.00	Licensed Surveyor	\$170	2	\$340	Survey Party	27.56	22	606.32
	Party Chief	88.00	12	1,056.00				3,120.00	Instrument F	24.26	22	533.72
	Ins-Person	73.00	12	876.00								1,341.58
	CADD	65.00	4	260.00								
	Sr. CADD	73.00	4	292.00					<u>Direct Costs</u>			
	Survey Tech	52.00	2	104.00					Travel	0.565	730	412.45
				3,633.00					per diem	241	2	482
									meals	71	2	142
	<u>Direct Costs</u>								GPS (lump)	200	1	200
	Mileage	60	0.505	30.30					PPE	20	2	40
	Tolls	1	14.00	14.00								1,276.45
	Travel Time	3	63.20	189.60					<u>Indirect Costs</u>			1,640.48
	Total			3,866.90					<u>Fixed Fee</u>			298.21
											Total	4,556.72

2012

Item		Spectrum			Con-Test			H2M		
		Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost
<u>Laboratory Analysis</u>	<u>Method</u>									
VOCs	8260B	\$ 65.00	146	\$ 9,490.00	\$ 57.00	146	\$ 8,322.00	\$ 70.00	146	\$ 10,220.00
TAL Inorganics (minus Hg and CN)	6010B	\$ 70.00	38	\$ 2,660.00	\$ 104.00	38	\$ 3,952.00	\$ 75.00	38	\$ 2,850.00
Alkalinity	SM2320B	\$ 10.00	29	\$ 290.00	\$ 9.00	29	\$ 261.00	\$ 9.00	29	\$ 261.00
Chloride	SM 4500-C1	\$ 10.00	29	\$ 290.00	\$ 9.00	29	\$ 261.00	\$ 9.00	29	\$ 261.00
Total Organic Carbon	415.1	\$ 30.00	29	\$ 870.00	\$ 18.00	29	\$ 522.00	\$ 14.00	29	\$ 406.00
Nitrate	SM 4500-NO ₃ , 300.0	\$ 10.00	29	\$ 290.00	\$ 12.00	29	\$ 348.00	\$ 11.00	29	\$ 319.00
Nitrite	SM 4500-NO ₂ , 300.0	\$ 10.00	29	\$ 290.00	\$ 12.00	29	\$ 348.00	\$ 11.00	29	\$ 319.00
Sulfate	375.2, 300.0	\$ 10.00	29	\$ 290.00	\$ 14.00	29	\$ 406.00	\$ 12.00	29	\$ 348.00
Sulfide	SM 4500-S ²	\$ 30.00	29	\$ 870.00	\$ 8.00	29	\$ 232.00	\$ 12.00	29	\$ 348.00
Methane, ethane, ethene	RSK-15	\$ 75.00	45	\$ 3,375.00	\$ 75.00	45	\$ 3,375.00	\$ 110.00	45	\$ 4,950.00
Vapor VOCs	T015	\$ 195.00	32	\$ 6,240.00	\$ 185.00	32	\$ 5,920.00	\$ 275.00	32	\$ 8,800.00
Full TCLP	1311	\$ 515.00	8	\$ 4,120.00	\$ 435.00	8	\$ 3,480.00	\$ 488.00	8	\$ 3,904.00
		Subtotal \$ 29,075.00			Subtotal \$ 27,427.00			Subtotal \$ 32,986.00		

Item	Units	Vironex			Stone Environmental			Columbia Technologies			Zebra Environmental		
		Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost
MOB/DEMOB													
Mob/Demob Geoprobe	each	\$ 1,800.00	1	\$ 1,800.00	\$ 2,106.00	1	\$ 2,106.00	\$ 1,650.00	1	\$ 1,650.00	\$ 3,000.00	1	\$ 3,000.00
MIP RIG AND CREW													
Geoprobe Unit w/ Operator	day	\$ 3,925.00	29	\$ 113,825.00	\$ 1,826.00	29	\$ 52,954.00	\$ 2,000.00	29	\$ 58,000.00	\$ 1,595.00	29	\$ 46,255.00
MIP Unit													
MIP Setup											\$ 500.00	1	\$ 500.00
MIP Footage											\$ 3.50	2000	\$ 7,000.00
MiHPT Unit					\$ 2,500.00	29	\$ 72,500.00	\$ 2,750.00	29	\$ 79,750.00	\$ 2,100.00	29	\$ 60,900.00
Groundwater sample	sample	\$ 525.00	10	\$ 5,250.00	\$ -	10	\$ -	Included in D	10		Included	10	
Data/project management	total	Included			\$ 4,180.00	1	\$ 4,180.00	\$ 150.00	20	\$ 3,000.00	Included		
Per Diem	total	\$ 300.00	29	\$ 8,700.00	\$ 1,972.00	1	\$ 1,972.00	\$ 330.00	29	\$ 9,570.00	\$ 250.00	29	\$ 7,250.00
Costs				\$129,575.00			\$133,712.00			\$151,970.00			\$124,905.00

Well Drillers

		MSA Drillers (line items not highlighted need to be raised by 3%)																	
		Geologic Received 1/17/13			Parratt-Wolff Received 1/9			Aztech 41291			Nothnagle DECLINED TO BID			Geosearch DNR			SJB DNR		
Item	Units	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost
1. GENERAL																			
Mobilization - 1 Truck mounted HSA Rig	each	\$ 27,000.00	1	\$ 27,000.00	\$ 4,500.00	1	\$ 4,500.00	\$ 13,330.00	1	\$ 13,330.00		1	\$ -		1	\$ -		1	\$ -
Con/decon of decontamination pad	each	\$ 127.30	1	\$ 127.30	\$ 407.36	1	\$ 407.36	\$ 254.60	1	\$ 254.60	\$ 254.60	1	\$ 254.60	\$ 178.22	1	\$ 178.22	\$ 400.00	1	\$ 400.00
Personal protective equipment	per day per person	included	30		included	30		included	30		\$ 12.22	30	\$ 366.60	included	30		included	30	
Steam Cleaning	hour	\$ 81.47	30	\$ 2,444.10	\$ 193.50	30	\$ 5,805.00	\$ 147.67	30	\$ 4,430.10	\$ 152.76	30	\$ 4,582.80	\$ 188.40	30	\$ 5,652.00		30	\$
55-Gallon Drums (contain cuttings)	each	\$ 27.50	50	\$ 1,375.00	\$ 66.20	50	\$ 3,310.00	\$ 61.10	50	\$ 3,055.00	\$ 45.83	50	\$ 2,291.50	\$ 56.01	50	\$ 2,800.50	\$ 60.00	50	\$ 3,000.00
Transport/Handling of IDW (per drum)	each	\$ 40.74	50	\$ 2,037.00	\$ 91.66	50	\$ 4,583.00	\$ 147.67	50	\$ 7,383.50	\$ 45.83	50	\$ 2,291.50	\$ 40.74	50	\$ 2,037.00	\$ 60.00	50	\$ 3,000.00
Well Development - pump and surge method (w/surge block)	hour	\$ 81.47	88	\$ 7,169.36	\$ 91.66	88	\$ 8,066.08	\$ 178.22	88	\$ 15,683.36	\$ 152.76	88	\$ 13,442.88	\$ 81.47	88	\$ 7,169.36	\$ 175.00	88	\$ 15,400.00
Transport/Handling of development water	gallon	\$ 0.40	26400	\$ 10,560.00	\$ 0.35	26400	\$ 9,240.00	\$ 0.50	26,400	\$ 13,200.00		26400	\$ -		26400	\$ -		26400	\$ -
Standby crew and rig	hour	\$ 81.47	8	\$ 651.76	\$ 193.50	8	\$ 1,548.00	\$ 157.85	8	\$ 1,262.80	\$ 152.76	8	\$ 1,222.08	\$ 178.22	8	\$ 1,425.76	\$ 150.00	8	\$ 1,200.00
Temporary Fence		\$ 3,500.00	1	\$ 3,500.00	\$ 600.00	1	\$ 600.00	\$ 3,000.00	1	\$ 3,000.00		1	\$ -		1	\$ -		1	\$ -
2. Monitoring Well Installation																			
4.25 inch diameter hollow stem auger (0-50 ft) - no sampling	foot	\$ 8.15	690	\$ 5,623.50	\$ 15.28	690	\$ 10,543.20	\$ 17.31	690	\$ 11,943.90	\$ 12.22	690	\$ 8,431.80	\$ 18.84	690	\$ 12,999.60	\$ 10.00	690	\$ 6,900.00
4.25 inch diameter hollow stem auger (50-100 ft) - no sampling	foot	\$ 11.20	300	\$ 3,360.00	\$ 18.33	300	\$ 5,499.00	\$ 14.26	300	\$ 4,278.00	\$ 14.26	300	\$ 4,278.00	\$ 26.48	300	\$ 7,944.00	\$ 13.00	300	\$ 3,900.00
3. Materials																			
2-inch dia., Schedule 40 PVC well casing	foot	\$ 11.20	770	\$ 8,624.00	\$ 7.13	770	\$ 5,490.10	\$ 5.60	770	\$ 4,312.00	\$ 8.15	770	\$ 6,275.50	\$ 5.60	770	\$ 4,312.00	\$ 4.00	770	\$ 3,080.00
2-inch dia., Schedule 40 PVC, 10-slot well screen	foot	\$ 11.20	220	\$ 2,464.00	\$ 10.18	220	\$ 2,239.60	\$ 5.60	220	\$ 1,232.00	\$ 15.28	220	\$ 3,361.60	\$ 6.62	220	\$ 1,456.40	\$ 7.00	220	\$ 1,540.00
Well Completion Materials (sand pack for 2 inch MW)	foot	--	286	--	\$ 10.18	286	\$ 2,911.48	\$ 5.60	286	\$ 1,601.60	\$ 12.22	286	\$ 3,494.92	\$ 4.07	286	\$ 1,164.02	\$ 5.00	286	\$ 1,430.00
Well Completion Materials (bentonite seal for 2 inch MW)	foot	--	44	--	\$ 12.22	44	\$ 537.68	\$ 9.42	44	\$ 414.48	\$ 27.50	44	\$ 1,210.00	\$ 15.79	44	\$ 694.76	\$ 25.00	44	\$ 1,100.00
Well Completion Materials (grout for 2 inch MW)	foot	--	660	--	\$ 12.22	660	\$ 8,065.20	\$ 9.17	660	\$ 6,052.20	\$ 11.20	660	\$ 7,392.00	\$ 6.11	660	\$ 4,032.60	\$ 6.00	660	\$ 3,960.00
Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	each	\$ 71.29	22	\$ 1,568.38	\$ 203.68	22	\$ 4,480.96	\$ 137.48	22	\$ 3,024.56	\$ 152.76	22	\$ 3,360.72	\$ 157.85	22	\$ 3,472.70	\$ 150.00	22	\$ 3,300.00
			Subtotal	\$76,504.40		Subtotal	\$77,826.66		Subtotal	\$94,458.10		Subtotal	\$62,256.50		Subtotal	\$55,338.92		Subtotal	\$48,210.00
Alternate costs (if we decide we need mud rotary)																			
1. GENERAL																			
Alt. Mobilization - 1 Truck mounted HSA/Mud rotary Rig	lump	\$ 4,800.00	1	\$ 4,800.00	\$ 5,025.00	1	\$ 5,025.00	13330	1	\$ 13,330.00				\$ -	1	\$ -	\$ -	1	\$ -
2. Monitoring Well Installation																			
Mud/Water Rotary (per LF)- Nominal 6 inch	foot	\$ 21.00	600	\$ 12,600.00	\$ 50.92	600	\$ 30,552.00	\$ 50.00	600	\$ 30,000.00	\$ 30.00	600	\$ 18,000.00	\$ 21.50	600	\$ 12,900.00	\$ 30.00	600	\$ 18,000.00

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 University of Oklahoma, School of Geology and Geophysics
 100 E. Boyd St., SEC 710
 Norman, OK 73019
 405-325-4453
tkuder@ou.edu

MicroSeeps
 Robbin Robl
rrobl@microseeps.com

	Units	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost	Rate	Quantity	Total Cost			
CSIA- Chlorine (PCE)	sample	\$450.00	12	\$5,400.00	\$	400.00	12	\$4,800.00	\$	500.00	12	\$6,000.00	
CSIA- Carbon (PCE)	sample	\$350.00	12	\$4,200.00	\$	350.00	12	\$4,200.00	\$	400.00	12	\$4,800.00	
CSIA- Chlorine (TCE)	sample	\$450.00	12	\$5,400.00	\$	50.00	12	\$600.00	\$	62.50	12	\$750.00	
CSIA- Carbon (TCE)	sample	\$0.00	12	\$0.00	\$	50.00	12	\$600.00	\$	70.00	12	\$840.00	
CSIA- Chlorine (DCE)	sample		12	\$0.00	\$	50.00	12	\$600.00	\$	62.50	12	\$750.00	
CSIA- Carbon (DCE)	sample	\$0.00	12	\$0.00	\$	50.00	12	\$600.00	\$	70.00	12	\$840.00	
CSIA- Chlorine (VC)	sample		12	\$0.00	\$	50.00	12	\$600.00	\$	62.50	12	\$750.00	
CSIA- Carbon (VC)	sample	\$100.00	12	\$1,200.00	\$	50.00	12	\$600.00	\$	70.00	12	\$840.00	
				\$16,200.00					\$12,600.00				\$15,570.00

2012

Item			Rate			Rate			Rate		
Laboratory Analysis			Quantity			Quantity			Quantity		
Soil or Water			Total Cost			Total Cost			Total Cost		
Method											
TCL Volatiles (low conc.)	Water	8260B	\$ 18.00	146	\$ 2,628.00	\$ 17.00	146	\$ 2,482.00	\$ 18.00	146	\$ 2,628.00
TAL Inorganics (minus Hg and CN)	Water	6010B	\$ 18.00	38	\$ 684.00	\$ 20.00	38	\$ 760.00	\$ 18.00	38	\$ 684.00
Alkalinity	Water	SM2320B	\$ 3.00	29	\$ 87.00	\$ 4.00	29	\$ 116.00	\$ 6.00	29	\$ 174.00
Chloride	Water	SM 4500-C1	\$ 3.00	29	\$ 87.00	\$ 4.00	29	\$ 116.00	\$ 6.00	29	\$ 174.00
Total Organic Carbon	Water	415.1	\$ 5.00	29	\$ 145.00	\$ 5.00	29	\$ 145.00	\$ 6.00	29	\$ 174.00
Nitrate	Water	SM 4500-NO ₃ , 300.0	\$ 3.00	29	\$ 87.00	\$ 5.00	29	\$ 145.00	\$ 6.00	29	\$ 174.00
Nitrite	Water	SM 4500-NO ₂ , 300.0	\$ 3.00	29	\$ 87.00	\$ 5.00	29	\$ 145.00	\$ 6.00	29	\$ 174.00
Sulfate	Water	375.2, 300.0	\$ 3.00	29	\$ 87.00	\$ 5.00	29	\$ 145.00	\$ 6.00	29	\$ 174.00
Sulfide	Water	SM 4500-S ²	\$ 3.00	29	\$ 87.00	\$ 5.00	29	\$ 145.00	\$ 6.00	29	\$ 174.00
Methane, ethane, ethene	Water	RSK-15	\$ 10.00	45	\$ 450.00	\$ 15.00	45	\$ 675.00	\$ 15.00	45	\$ 675.00
Vapor VOCs	Water	T015	\$ 25.00	32	\$ 800.00	\$ 20.00	32	\$ 640.00	\$ 6.00	32	\$ 192.00
Full TCLP	Water	1311	\$ 70.00	8	\$ 560.00	\$ 8.50	8	\$ 68.00	\$ 69.00	8	\$ 552.00
Subtotal			\$ 5,789.00			Subtotal \$ 5,582.00			Subtotal \$ 5,949.00		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

Contract/WA No. D007621-10

Site/Spill Number 243019

Site/Spill Name Charlton Cleaners

NOTE: Standby Contractor must obtain DER approval prior to executing and submitting subcontract.

Check the appropriate box and complete the chart below:

Standby Subcontractors

- ☐ Standby cost-plus-fixed-fee subconsultant/subcontractor selected on rotational basis.
- ☒ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)
- ☐ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

Non-Standby Subcontractors

For non-standby unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

- ☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).
- ☐ Total estimated costs range from \$10,000 to \$20,000; three **written** responsive quotes must be obtained and attached.
- ☐ Total estimated costs are over \$20,000; five **written** responsive quotes must be obtained and attached.


Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes **and** an engineer's estimate to support cost reasonableness.

- ☐ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

<i>Subcontractor/Subconsultant</i>	<i>Phone Number</i>	<i>Date</i>	<i>Price Quote</i>

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract will include all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. In addition to the appropriate insurance certificates, the contractor submitted a copy of the insurance policy provisions pertaining to notification of cancellation (including expiration, termination, or suspension) of such policy.
10. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

	02/01/2013
Signature of Contractor's Authorized Representative	Date
CDM Smith	D007621-10
Contractor Name	Contract/WA No.
Con-Test	
Subcontractor Name	

Rev. 01/10/12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

Contract/WA No. D007621-10

Site/Spill Number 243019

Site/Spill Name Charlton Cleaners

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Signature of Contractor's Authorized Representative

02/01/2013

Date

CDM Smith

D007621-10

Contractor Name

Contract/WA No.

Kennon Surveying

Subcontractor Name

Rev. 01/10/12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

Contract/WA No. D007621-10

Site/Spill Number 243019

Site/Spill Name Charlton Cleaners

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	02/01/2013
Signature of Contractor's Authorized Representative	Date
CDM Smith	D007621-10
Contractor Name	Contract/WA No.
Zebra Environmental	
Subcontractor Name	

Rev. 01/10/12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

Contract/WA No. D007621-10

Site/Spill Number 243019

Site/Spill Name Charlton Cleaners

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	02/01/2013
Signature of Contractor's Authorized Representative	Date
CDM Smith	D007621-10
Contractor Name	Contract/WA No.
Seacoast Environmental	
Subcontractor Name	

Rev. 01/10/12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

Contract/WA No. D007621-10

Site/Spill Number 243019

Site/Spill Name Charlton Cleaners

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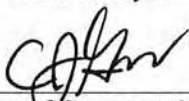
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	02/01/2013
Signature of Contractor's Authorized Representative	Date
CDM Smith	D007621-10
Contractor Name	Contract/WA No.
University of Oklahoma, Tomasz Kuder	
Subcontractor Name	

Rev. 01/10/12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

Contract/WA No. D007621-10

Site/Spill Number 243019

Site/Spill Name Charlton Cleaners

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4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. In addition to the appropriate insurance certificates, the contractor submitted a copy of the insurance policy provisions pertaining to notification of cancellation (including expiration, termination, or suspension) of such policy.
10. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

	02/01/2013
Signature of Contractor's Authorized Representative	Date
CDM Smith	D007621-10
Contractor Name	Contract/WA No.
Environmental Quality Associates	
Subcontractor Name	

Rev. 01/10/12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

Contract/WA No. D007621-10

Site/Spill Number 243019

Site/Spill Name Charlton Cleaners

NOTE: Standby Contractor must obtain DER approval prior to executing and submitting subcontract.

Check the appropriate box and complete the chart below:

Standby Subcontractors

- ☐ Standby cost-plus-fixed-fee subconsultant/subcontractor selected on rotational basis.
- ☐ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)
- ☒ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

Non-Standby Subcontractors

For non-standby unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

- ☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).
- ☐ Total estimated costs range from \$10,000 to \$20,000; three **written** responsive quotes must be obtained and attached.
- ☐ Total estimated costs are over \$20,000; five **written** responsive quotes must be obtained and attached.

Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes **and** an engineer's estimate to support cost reasonableness.

- ☐ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

<i>Subcontractor/Subconsultant</i>	<i>Phone Number</i>	<i>Date</i>	<i>Price Quote</i>

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract will include all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. In addition to the appropriate insurance certificates, the contractor submitted a copy of the insurance policy provisions pertaining to notification of cancellation (including expiration, termination, or suspension) of such policy.
10. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.


Signature of Contractor's Authorized Representative

02/01/2013

Date

CDM Smith

D007621-10

Contractor Name

Contract/WA No.

GeoLogic

Subcontractor Name

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Standby Engineering Contract Work Assignment Package Checklist

Contracts Executed After 2010 (D007617 - D007626)

Contractor Name: CDM**Date: February 1, 2013****WA No. and Name: D007621-10/Charlton Cleaners****Reviewer:**

	WORK ASSIGNMENT PACKAGE	Yes	No	Comments
	Includes a cover letter, completed WA Package checklist, Scope of Work (Schedule 1), Budget (Schedule 2.11(a)-(g)), relevant subcontractor documentation, and an M/WBE Utilization Plan.	X		
1	Cover Letter			
	Provides explanation for significant differences between the costing tool report and the scope of work and budget submitted.	X		
	For amendments, provides an explanation of changes in scope of work and/or budget by task. Includes total dollar value of amendment being requested.			NA
2	Schedule 1 (Scope of Work)			
	Includes breakdown of tasks and subtasks.	X		
	Tasks in the scope of work match the tasks in the Schedule 2.11s.		X	consolidated field
	Includes schedule for completion of tasks.	X		
	Duration of anticipated work does not exceed 24 months. (Work subsequent to that should be part of a future amendment or new work assignment.)		X	POP is 27 months
	For amendments, includes new and previous tasks for a comprehensive scope of work.			NA
3	Schedule 2.11(b) - Direct Labor Costs			
	Average reimbursement rates are used for each year. Future years escalate 3%.	X		
	Hours are segregated by year.	X		
	Total cost for each NSPE level is shown.	X		
	Total direct labor cost matches amount on Schedule 2.11(a).	X		
	The Principal's (NSPE IX) labor hours budgeted for WA are less than 2% of the total.	X		
	Direct Administrative Labor Hours - is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
	Total labor hours match hours on Schedule 2.11(g).	X		
4	Schedules 2.11(c) - Direct Non-Salary Costs, Equipment and Consumables, Miscellaneous			
	Rates listed in Schedule 2.11(c) are consistent with contract.	X		
	Rates for in-house and/or misc. costs match contract Schedule 2.10(b) or 2.10(c).			NA
	All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR.	X		
	Quotes are included for any non-contract items (<u>including</u> consultant-owned equipment; equipment purchases and rentals; <u>excluding</u> air fare) greater than \$1k. If sufficient number of quotes are unavailable, an engineer's estimate is provided. The low quote has been selected.	X		
	Site-dedicated equipment is identified as such and meets the requirements above.			NA
	Appropriate lodging/per diem/mileage rates are used.	X		
	Direct non-salary items are reasonable based on the scope of work (no. of field days, lodging, and field equipment usage).	X		
	Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X		

5	Schedule 2.11(d) - Cost-plus-fixed-fee Subcontracts	Yes	No	Comments
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	Proposed subcontractor is a DER-approved standby subcontractor for the firm. Subcontract is active and rates match the approved standby subcontract.	X		
	Proposed subcontractor is not a DER-approved standby subcontractor for the firm, but appropriate documentation was submitted to determine cost reasonableness.			
	• Rates match rates approved for that subcontractor under a different engineering firm.			NA
	• Rates are determined reasonable by other means and ICR is approved by CPS accountant.			NA
	A breakdown of direct labor and direct non-salary costs is provided.	X		
	Use of subcontractor is appropriate and justified	X		
	Subcontract Solicitation Record and Certification form has been submitted.	X		
	Total subcontract costs match amounts on Schedule 2.11(a).	X		
6	Schedule 2.11(e) - Unit Price Subcontracts			
	There are quotes for non-standby subcontracts >\$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X		
	<i>Standby Drillers</i> (Two phase process) - Quotes from all standbys are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected. Explanation for declinations has been provided.			NA
	<i>Standby Labs and Data Validators</i> (rotate use) - Unit costs match those in contract(s).	X		
	<i>M/WBE</i> - Cost reasonableness of sole/single source M/WBE contracts <\$10k are documented by an engineer's estimate or other cost comparison.			NA
	Cost reasonableness of single/sole source contracts are documented by an engineer's estimate or other cost comparisons (e.g., historical costs, pricing guides).			NA
	Placeholders are used only for non-standby subcontractors and are justified.			NA
	Cost reasonableness of placeholder subcontractors are documented by an engineer's estimate or other cost comparisons.			NA
	Correct contract management fee is calculated only on non-professional unit priced subs >\$10k and M/WBE firms from \$1. (Management fee is not allowed on professional engineering firms, architects, or surveyors unless the contract specifically allows it.)	X		
	Use of subcontractors is appropriate and justified.	X		
	Subcontract Solicitation Record and Certification form(s) have been submitted.	X		
	Total subcontract costs match the amounts on Schedule 2.11(a).	X		
7	Schedule 2.11(f) - Cost Control Report			
	Individual 2.11(f)s equal Summary 2.11(f) and costs match those on 2.11(a).	X		
8	Schedule 2.11(f) - Supplemental - Cost Control Report (subcontractors)			
	Includes all applicable subcontracts and management fees (for unit price only).	X		
9	Schedule 2.11(a)			
	Rates for indirect costs and fixed fee match contract rates.	X		
	All numbers rolled up into Schedule 2.11(a) add up.	X		

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