WORK PLAN
REMEDIAL DESIGN
Pall Corporation (1-30-066)
30-36 Sea Cliff Avenue, Glen Cove
Nassau County, New York

Prepared for

New York State Department of Environmental Conservation

Prepared by:

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Section 1
Introduction

This Work Plan for the Pall Corporation site (Pall) was prepared by Camp Dresser & McKee (CDM) for the New York State Department of Environmental Conservation (NYSDEC) under the Engineering Services for Design and Construction Oversight, Standby Contract No. D006131. The Work Plan was developed in accordance with the *"Standby Contract Work Assignment No. D006131-4, Pall Corporation - Remedial Design (Site No. 130053B)"*.

The major focus of this work assignment (WA) is for the remedial design for remediation of contaminated soils and groundwater in Operable Unit No. 1 that includes the surface and shallow subsurface contamination as outlined in the March 2004 Record of Decisions (ROD) for the Site.

This Work Plan is comprised of the following sections and subsection:

- **Section 1-Introduction**

  This section presents a brief site description and history, the location, operational and remedial history, and the project objectives.

- **Section 2-Scope of Work**

  This section presents a detailed breakdown of the scope of work for the following major tasks associated with this WA:

  - Task 1 - Work Plan Development, Site Visit, and Existing Data Review
  - Task 2 – Pre-Design Sampling and Testing
  - Task3 – Conceptual Site Model
  - Task 4 – Remedial Design

- **Section 3-Project Schedule**

  A proposed project schedule for the performance of the above tasks is presented in this section.

- **Section 4-Budget Estimate**

  A detailed WA budget is presented in Appendix B, the project Schedule 2.11, itemized by tasks and sub-tasks in accordance with the CDM's budget reporting requirements, cost rates and factors contained in the base contract.

- **Section 5-Subcontracting**

This section identifies the services provided by CDM subcontractors including the name and location of each proposed subcontractor under this WA.

- **Section 6- MBE/WBE Utilization Plan**

  The Minority Business Enterprise (MBE) and Woman Business Enterprise (WBE) Utilization Plan is presented in this section. CDM's subcontractors have been selected to provide quality and cost-effective services while also making a good faith effort to achieve the contract-specific MBE/WBE utilization goals.

The following appendices are also included in this Work Plan:

- **Appendix A - Health and Safety Plan**

  The site specific Health and Safety Plan (HASP) presented in Appendix A specifies the health and safety procedures to ensure safe work practices are employed through the length of the project. CDM has submitted our Corporate Health and Safety Program Manual to NYSDEC under separate cover.

- **Appendix B - Schedule 2.11s**

  The Schedule 2.11s for the Pall site are presented in Appendix B and contain a detailed cost estimate by task and subtask of all work elements contained in this work assignment.

- **Appendix C – Subcontractor Pricing Back-up**

- **Appendix D - M/WBE-EEO Work Plan**

1.1 Site Information

The following subsections provide a brief description of the Pall Corporation site, herein referred to as "the Site", and provide a brief overview of the operational history.

The Site is located at 30-36 Sea Cliff Avenue in the City of Glen Cove, Nassau County, New York. The Site is approximately 4.6 acres in size and contains two industrial buildings. The 30 Sea Cliff is currently unoccupied and August Thomsen occupies 36 Sea Cliff where they currently manufacture pastry bags. The remainder of the site is mainly paved asphalt. Residential, commercial and industrial properties are located in the vicinity of the Site. A day care center borders the Site on the north, Glen Cove Creek forms the border to the west, the Glen Cove Arterial Highway to the east and Sea Cliff Ave to the south.

The 30 Sea Cliff building was constructed in 1918 and used as an ice house. Pall Corporation purchased the building in 1953 and occupied the building until 1999.

Pall constructed 36 Sea Cliff in 1958 and occupied that building until 1977 when Pall sold it to August Thomsen.

Under the State Superfund Program, a remedial investigation was conducted between February 1998 and July 2000 and a Feasibility Report in October 2001. A pilot study test and report was completed in 2003.

Section 2
Scope of Work

2.1 Task 1 - Work Plan Development, Site Visit, and Data Review

2.1.1 Work Plan Development and Site Visit

This Work Plan outlines in detail the tasks to be completed as part of the Pall Corporation remedial design project. It includes a site specific Health and Safety Plan (HASP) presented in Appendix A. The HASP describes the site health and safety for the field activities that will be performed. CDM's Generic QAPP has been submitted and approved by NYSDEC and is not included in this document.

The following sections and subsections clearly define CDM's scope of work as defined in work assignment D006131-4 dated August 13, 2008 and discussed during our initial meeting with NYSDEC's project manager, Mr. Jeff Dyber and subsequent meeting and site walk on September 9, 2008. In addition, this work plan also includes the Schedule 2.11 cost breakdown for each task in Appendix B.

2.1.2 Background Review

CDM will review the background information for the Site that includes at a minimum the following documents:

- Phase II Remedial Investigation Report, July 2000;
- Feasibility Study Report, October 2001;
- March 2004 Record of Decision;
- Final In-situ Chemical Oxidation, Phase I Pilot Test Report, October 2003;
- In-Situ Chemical Oxidation Phase II Pilot Test and Source Evaluation Report, September 2006.
- Other site related documents provided by NYSDEC on the Photocircuits Site.

This information will be reviewed by the project manager and other key personnel that will be involved with remediation oversight.

2.2 Task 2 - Pre-Design Sampling and Testing

CDM has reviewed data for both the Pall site and information that was made available for the Photocircuits site. There are data gaps that exist both on the Pall site and between the Pall and Photocircuits sites that need to be evaluated prior to a full design and remediation being implemented. The following sections and subsections outline CDM's approach to closing the data gaps so a design can be completed.

The tasks that are outlined below included the following:

- Pre-design groundwater measurement, sampling, and analysis both on and off-site at the following wells; MW-2GS/I/D, MW-2A/I/D, MW-10S/P/D,

MW-12PS/I/D, MW-4PS/I/D, MW-8PS/I, MW-8, MW-14PCD, and MW-6. Wells may be added or deleted depending on observed field conditions.

- Soil sampling and analysis at several source areas at the Pall site to fill in data gaps
- Hydraulic testing that may include pump tests and/or tracer testing both on and off-site.
- Development of a site conceptual model

CDM's Generic Quality Assurance Project Plan (QAPP) and Corporate Health and Safety Plan have been provided to NYSDEC under a separate cover. The QAPP provides detailed means and methods for site characterization activities.

All investigation derived waste (IDW) generated as part of the pre-remedial design will be handled by an IDW subcontractor. Prior to transportation and disposal of IDW from the site, CDM will submit the transporter and disposal facility name and EPA ID numbers to the NYSDEC PM. CDM is proposing to use Innovative Recycling Technologies, Inc. for IDW transportation and disposal

2.2.1 Groundwater Measurement, Sampling and Analysis

Groundwater samples were last collected at the site in 2006; therefore a round of groundwater samples from a limited number of wells will be collected and analyzed for the contaminants of concern at the site, i.e. volatile organic compounds (VOC) including Freon. Table 2-1 provides a summary of the samples to be collected and the analytical methods. The objective of this sampling event is to confirm that the nature and extent of groundwater contamination is substantially similar to what was found previously so that an effective, efficient remediation can be designed.

A total of 12 monitoring wells will be sampled at the Pall site and up to 8 wells at the Photocircuit site. Figure 3-1, taken from the Dvirka and Bartilucci RI/FS Work Plan, shows the proposed wells to be sampled at the Pall site. Prior to groundwater sampling, a synoptic round water level measurements on the Pall, Photocircuits and Glen Cove properties will be performed for hydraulic head mapping and interpretation. At a minimum, the depth to water at all monitoring wells at each site will be measured; however, the wells that were installed at Pall for the pilot studies (prefix "PT") may not be measured due to the large number of such wells in a small area. The field team will gauge as many wells as possible in one day.

Groundwater sampling procedures are detailed in the Generic QAPP. Groundwater will be sampled by low-flow methods and samples will be submitted to a certified laboratory for analysis for VOC analysis. Samples for bio-geochemical parameters will be collected via low-flow sampling prior to VOC sample collection. A flow-through cell will be used with the field meter probe positioned inside. Field meter parameters will include: pH, dissolved oxygen, redox potential, and conductivity. The final, stabilized field meter readings will be reported. Ferrous iron will be measured for each sample using a field test kit by Hach. The following standard laboratory analyses will be performed in addition to VOCs and Freon: TOC, DOC,

COD, BOD, nitrate, sulfate, phosphate, total alkalinity, total iron, and Priority Pollutant metals. Lastly, the following analyses with very low detection limits will be performed for methane, ethane, and ethene.

2.2.2 Soil Boring Sampling and Analysis

Additional soil borings will be performed using direct push drilling methods to investigate potential source areas for residual soil contamination in the vadose zone, and investigation of the deeper strata to determine the bottom of the upper glacial aquifer. Twenty one test boring locations are proposed as shown on Figures 3-3 and 4-2 taken from the Enviroscience Phase II RI

Soil borings will be advanced by direct push drilling methods. Drilling and sampling will be performed in accordance with the Generic QAPP. Each soil sample will be characterized by an on-site CDM geologist. Depth, soil type, moisture, evidence of contamination (photoionization detector readings, visual evidence etc.) will be recorded. Soil borings will be advanced to a depth of approximately 30 to 40 feet; the borings will terminate on silty strata in the subsurface.

For budgetary purposes, it is assumed that this activity will require ten days in the field. Up to two soil samples in each of boreholes will be analyzed for VOCs, including Freon. In addition, a maximum of six soil samples (two from each depth interval of interest) will be analyzed for total organic carbon (TOC) and metals. Table 2-1 provides a summary of the analytical methods and number of samples for the pre-design soil analyses.

Soil borings will also be performed on grids at three areas in order to fill in apparent data gaps. These data gaps include:

- Delineation is required around previous boring 5-SB-15, where tetrachloroethylene (PCE) was found at a concentration of 950 mg/kg, post SVE remediation at this location. Boring 5-SB-15 was installed at the west corner of a grid; additional delineation samples are necessary to the northwest and southwest of this location to fully delineate this soil contamination.

- Characterization is required in the vicinity of the former TCE tank at the northwest corner of the August Thomsen building; Enviro-Sciences, Inc. determined that this area is a possible Freon source; however, it is not clear that Freon was typically analyzed in soil samples.

- Characterization and delineation are required in the vicinity of the metal shed drum storage area; where significant Freon has been detected in groundwater (150 ppm in SGB-21A and MW-4P). This location is upgradient of the former TCE tank area.

2.2.2.1 Borehole Clearing

Surface geophysical surveys will be used to clear boring locations of utilities in areas where the one-call service does not mark out utilities (i.e., the interior portions of private property), and to determine the northern limit of buried metal identified during the previous geophysical survey.

Supplemental geophysical surveys will be performed in accordance with the QAPP. The surveys will utilize ground penetrating radar (GPR) and electromagnetic conductivity (EC) or other applicable methods. Methods will be selected to identify underground utilities, water lines, buried drums, underground storage tanks and/or any large anomalies such as conduits. In the case of drilling locations, subsurface utilities will be marked within 15 feet of each proposed location to allow for the relocation of borings if necessary, for example due to refusal.

2.2.3 Review of Existing Hydraulic Testing Data

CDM will review the hydraulic data from the pilot tests conducted by APEX and Enviro-Sciences, Inc. The objective of this review is to evaluate horizontal and/or vertical hydraulic conductivity of the strata on site. A preliminary review of this data indicates that it may be possible to evaluate the horizontal hydraulic conductivity of the shallow and/or intermediate zones.

2.2.4 Hydraulic Testing - Aquifer Testing

A series of short pumping tests will be performed in order to further evaluate the horizontal and vertical hydraulic conductivity at the site. Information from the review of existing data will be incorporated into the test design if possible. The aquifer testing will be preceded by one week of antecedent monitoring at two well clusters (shallow-intermediate-deep). Following the antecedent monitoring, a series of short-term pumping tests will be performed. Each test will be performed by pumping an intermediate monitoring well approximately four hours while water levels are monitored in the pumping well, adjacent monitoring wells in the cluster, and monitoring wells in a nearby cluster.

A total of six pressure transducers, and an atmospheric pressure recorder, will be deployed at the site for two weeks (antecedent period plus pumping test period). In addition, a rain gauge will be deployed at the site and monitored daily. For costing purposes, it is assumed that each of five aquifer tests will require one working day, which will include a short step test in the morning to select the flow rate, followed by four hours of pumping after the well recovers to static, and recovery monitoring to 90 percent of static.

If there is sufficient existing information on well yield, it may be possible to eliminate one or more step tests. In addition, the actual pumping test durations may be shorter if water level changes of 0.3 feet or more are measured in the deeper strata (the 0.3

feet criteria is subject to change based upon ambient trends). If the tests are shortened, additional tests may be performed.

Precipitation events during the pumping periods may be cause for rescheduling the pumping tests. However, ambient monitoring during such periods will provide additional data to evaluate vertical influence. If the work is performed during freezing conditions, then temperature will be recorded periodically each day, and freezing/thawing ground conditions will also be noted.

2.2.5 Hydraulic Testing - Tracer Testing

CDM will design and perform a fluorescent tracer test to evaluate groundwater flow at the site. The objective of the tracer test is to characterize contaminant transport onto the site from an upgradient source. Upgradient groundwater at the Photocircuits site is contaminated with similar volatile organics as the Pall site, with the highest concentrations in the deeper strata. Due to a reported upward gradient at the Pall site, there is concern that the shallow and intermediate strata to be remediated will be re-contaminated by deep groundwater emanating from off-site and migrating upward into the shallower strata. The tracer test will be designed to evaluate this scenario after completion of the hydraulic testing.

Once CDM has completed the hydraulic testing and evaluated the data, we will prepare a detailed scope for the tracer testing and submit to the NYSDEC project manager for review and approval prior to implementing the testing. For costing purposes, the tracer test is assumed to require collection of groundwater samples for dye analysis for a period of 28 weeks after dye injection.

2.3 Task 3 - Site Conceptual Model

Using the existing and new information gathered in Task 2 above, CDM will develop a site conceptual model for the groundwater plumes both on- and off-site. The model will integrate groundwater hydrogeology, chemistry, and biology data to generate an understanding of plume geometry and behavior. The model will then become a critical element in CDM's design of a selected remedy.

CDM will further compile and review existing environmental data for the Pall site, Photocircuits site and general local area hydrogeology. We will make use of existing data to the maximum extent possible, contingent upon its reliability and completeness. The additional collected data by CDM during the pre-design sampling and analysis (Section 2.2) will be integrated into the site conceptual model. At a minimum, the results will allow us to identify suspected and known sources; estimate the outlines of the plumes in three dimensions; and describe plume migration and transformation behavior.

In addition to a site conceptual model, a numerical model will also be utilized. In the late 1980s, CDM developed a regional groundwater model for Nassau County to be used as a planning tool for the County. This model was updated and re-calibrated in

2003 as part of the Source Water Assessment Program for Nassau and Suffolk Counties (Figure 1). The model was calibrated to groundwater head as measured by Nassau County Department of Public Works and stream flow (including Glen Cove Creek) as measured by the USGS. The model is a three-dimensional finite element model (DYNSYSTEM) and incorporates all aquifer units from Queens and into Suffolk County.

CDM proposes to use the Nassau County groundwater model to evaluate the regional groundwater flow in the project area. The regional model grid spacing in the study area is on the order of 1,500 feet, which is too coarse for a sub-regional analysis (Figure 2). The model grid will be refined to better refine groundwater flow within the project area. In addition to adding nodes to improve horizontal discretization, model levels will be added to the model to better represent vertical groundwater flow.

The geologic stratigraphiy of the study area is fairly complex, involving numerous thin layers of silt and clay. The stratigraphic framework of the Nassau County groundwater model is represented using nine model layers, incorporating major aquifer units and geologic features. The stratigraphic framework is based on regional geologic mapping as published by the USGS and updated somewhat to project specific projects for which CDM has been previously involved. The regional hydrogeologic framework will be used for this analysis. If the project team, through further geologic interpretation, feel that a particular clay or silt layer be significant, it will be incorporated into the model as a sensitivity simulation. The refined model grid will be intersected with the Digital Elevation Model (DEM) in the area to better represent topography and baseflow to Glen Cove Creek. Groundwater head and flow direction will be compared with published head maps for verification (Figure 3).

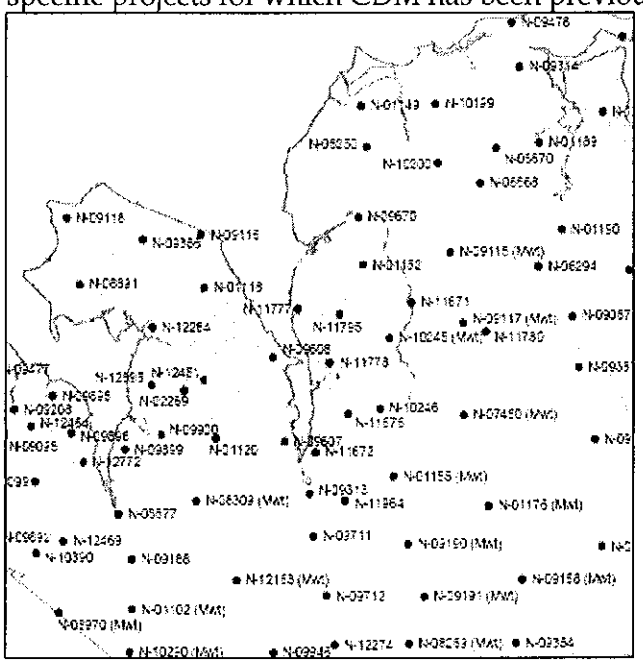


Figure 3 Water table elevations, September 2003 (from Nassau County Groundwater Monitoring Program 2000-2003 with Historical Information)

Currently, remediation pumping at the Photocircuits site is not incorporated into the model. All available remediation pumping from the site will be incorporated.

Particle Tracking Analyses

Groundwater flow direction and travel time from the Photocircuits site as well as the Pall Corporation will be evaluated using particle tracking analyses. Particles will be released from the water table as well as at depth from both sites to evaluate groundwater flow. In addition, particles will be released at the well screen of particular groundwater monitoring wells and will be allowed to flow backwards until the water table is reached. This analysis will help the project team understand possible source area(s) to different monitoring wells and may help explain contaminant sources. CDM will develop a well database for the model which will contain well coordinates and screen intervals for use in the model. A particle tracking simulation will also be conducted that releases particles at the Photocircuits site from the onset of documented groundwater contamination. It is anticipated that up to 10 particle tracking simulations will be conducted.

All groundwater model simulations will be QA/QC'd by a senior groundwater modeler. A brief technical memorandum will be prepared that documents the model results.

2.3.1 Review and Selection of a Remedy

Once CDM completes all the pre-remedial design sampling and analysis, we will conduct a final review the remedial alternatives based on relevant factors including ease of implementation, applicability to the entire list of VOCs of concern, ability to achieve cleanup standards in the ROD, environmental sustainability, cost, etc. Our understanding of the plumes based on the site conceptual model will be critical to the alternatives evaluation.

Based on the review of the new and existing data, CDM will select an insitu remedy consistent with the ROD that will be used in the remedial design, based on the following steps:

1. Identify existing on-site and off-site sources. Evaluate the need for source control/removal prior to site plume remediation. If applicable, compare source control/removal alternatives separately from plume remediation.

2. Assuming that necessary source control/removal has been completed, thoroughly review applicable insitu remedies outlined in the ROD and other available technologies based on CDM's experience, further literature review, and discussions with relevant technology vendors.

3. Select the remedy for remedial design that will achieve the remedial goals outlined in the ROD.

2.4 Task 4 - Remedial Design and Bidding Services

The following tasks outline the general design process steps:

- Development of the overall design strategy
- Determination of the key design criteria

- Design analysis
- Verification, review, and approval of the design
- Development of the final design package

2.4.1 30 % Basis of Design Report/Preliminary Design

CDM will prepare a preliminary design (30%) package for NYSDEC review and comments. For the preliminary design, CDM will provide a complete drawing list and design drawings showing the preliminary layout of the proposed insitu remedy and any supporting documentation including cut sheets. A list of specifications will also be included, but no specifications will be part of this design package.

CDM will prepare a Basis of Design Report (BODR) to present the design approach and define in detail the technical parameters on which it will be based. As part of the BODR design, CDM will perform the following activities:

- Prepare design calculations, a detailed description of assumptions, a plan for minimizing impact of the public and the environment, and permitting requirements
- Provide recommendations for the project delivery strategy and scheduling
- Prepare a specifications outline that includes all specifications to be used
- Prepare preliminary drawings, including an index of proposed contract drawings and a site plan
- Describe variances from the ROD, if any

CDM will submit 3 copies of the preliminary design to NYSDEC for review and comment. CDM will meet with NYSDEC to review the 30% design and address comments.

2.4.2 60% Design and Preliminary Cost Estimate

CDM will prepare the 60% design package that will address the comments to the 30% design provided by NYSDEC. The 60% submittal will include a complete set of construction drawings and draft specifications and a revised BODR. All specifications will conform to Construction Specifications Institute (CSI) format and will include the NYSDEC boilerplate contract requirements with site-specific information completed by CDM. CDM will coordinate and cross-check all specifications and drawings and submit to the NYSDEC.

2.4.2.1 Preliminary Construction Cost Estimate

CDM will provide an Estimated Probable Cost of Construction covering each work item and activity based on engineering data. As part of this cost estimate, CDM will include one copy of the quantity takeoff sheets, including all appropriate items, with each estimate submitted.

CDM will submit 3 copies of the 60% design documents to NYSDEC for review and comment. Once comments are received, CDM will participate in a 60% design review meeting with NYSDEC.

2.4.3 Final Design and Construction Cost Estimate

CDM will prepare a Final Design and incorporate all NYSDEC review comments into the final design, as necessary. All final design documents will be stamped by a Professional Engineer registered in the State of New York. NYSDEC's approval of the final design is required before initiating the RA, unless specifically authorized by the NYSDEC. This final submittal will include a complete set of construction drawings and specifications and a basis of design report. All specifications will conform to CSI format. NYSDEC boilerplate contract requirements have been provided to CDM and CDM will complete all site-specific information required in these documents for inclusion in the final design documents. CDM will provide NYSDEC with up to 50 copies of the final design documents for bidding.

2.4.3.1 Final Cost Estimate

CDM will base the final estimated probable construction cost on the final approved plans and specifications. The final estimate will reflect current prices for labor, materials, and equipment. Unit prices, overhead, profit, and other categories will be shown as separate items. The estimate will separately identify contingencies within the defined project scope.

2.4.4 Pre-Bid Services

The following tasks outline pre-bid services to be provided by CDM.

2.4.4.1 Pre-bid Conference

CDM, in conjunction with the NYSDEC will attend the pre-bid meeting to be held at the site with the prospective bidders. The CDM PM will attend the meeting and provide technical support to the NYSDEC. CDM will assist the NYSDEC with answering questions, taking notes and assist with providing input to the meeting minutes. CDM will also prepare a Question & Answer document to be developed and submitted to all bidders in attendance.

2.4.4.2 Addenda Preparation

CDM will prepare up to two addenda as part of the pre-bid services. CDM will submit the addenda to NYSDEC for review and NYSDEC will issue the addenda to the bidders.

2.4.4.2 Bid Review

CDM will review all bids received by the NYSDEC and provide recommendation for award based on the lowest responsible bidder. We will prepare a bid summary table summarizing the cost and documents received as part of the bid package in accordance with the contract documents.

Section 3
Project Schedule

The following table provides the proposed project schedule and key milestones for this work assignment. The schedule below is based on NYSDEC proposed schedule in the work assignment documents and CDM's estimate to complete each task including review of design documents by NYSDEC.

Project Milestone	Date Completed
Issue Work Assignment (WA)	August 26, 2008
Conflict of Interest Complete	September 9, 2008
Site Walk - Initial Kick-off Meeting with NYSDEC PM to Review Scope	September 10, 2008
Review of existing data - Submit Draft Work Plan (Task 1) to NYSDEC PM for Review and Comment	January 16, 2009
NYSDEC Comment on Draft Work Plan	January 23, 2009
Submit Final Work Plan to NYSDEC	February 11, 2009
Notice to Proceed (NTP)	February 20, 2009
Task 2 – Pre-Design Sampling and Analysis	
Task 2.1 – Groundwater Measurement and Sampling	March 27, 2009
Task 2.2 – Soil Boring Supplemental Investigation	March 27, 2009
Task 2.3 – Hydraulic Testing	April 24, 2009
Task 2.4 – Tracer Testing	November 30, 2009
Task 2.5 – Pre-Design Sampling Report (not including Tracer Test Results)	September 30, 2009
Task 3 – Site Conceptual Model	May 30, 2009
Task 4 – Remedial Design*	To Be Determined

*CDM will submit a remedial design schedule to NYSDEC upon completion of the Pre-design sampling report.

Section 4
Budget Estimates

Below is CDM's proposed budget summary table and cost assumptions. Appendix B presents the detailed costs by task and subtask on the NYSDEC Schedule 2.11s.

Estimated Budget and Level of Effort (LOE) Summary
Pall Corporation Site – Supplemental SI/Site Conceptual Model
City of Glen Cove, Nassau County, New York
Site No. 1-30-053B

Task Items	Description/Cost	Dollars
1	Work Plan Development /Information Review/Site Visit/	$46,007
2	Supplemental Site Investigation	$197,359
3	Site Conceptual Model	$50,158
4	Remedial Design	$102,959
	Total Estimate Budget (Tasks 1 - 5)	**$396,484**

General Assumptions:

- All work will be performed in 2009.
- All costs are based upon the scope and schedule provided in this Work Plan. Costs associated with project delays or expedited schedules beyond CDM's control are not assumed.
- The scope, level of effort and cost is based on the NYSDEC work assignment dated August 26, 2008 and conversation with NYSDEC PM Mr. Jeffrey Dyber.
- No pilot study or bench scale testing costs have been included as part of this scope and cost.
- Access is permitted to the Photocircuits

Task 1 - Work Plan Development/Information Review/Site Visit:

- CDM will address one set of consolidated comments to the draft work plan and submit a final work plan approval.
- Project management, subcontractor procurement, scheduling, budgeting, administrative activities are included in this task.

- CDM has prepared a generic Quality Assurance Project Plan (QAPP) and Corporate Health and Safety Plan and both have been reviewed and approved by NYSDEC. The QAPP is updated as needed.

Task 2 -Pre-Design Sampling and Analysis:

- Additional information is needed to close data gaps and the sample locations for soil and groundwater are approximate and may be changed in the field.
- Access to Photocircuits site will be permitted to gauge and sample existing wells as part of the pre-design work.
- CDM has assumed a 28 week tracer test for this project

Task 3 - Site Conceptual Model:

- CDM will develop a site conceptual model using existing and new data
- We have assumed that data from Photocircuits will be included as part of the model.
- A site remedy will be developed as part of the site model

Task 4 -Remedial Design:

- The remedial design cost does not include a pilot study or bench scale testing for the selected remedy, if necessary.
- Remedial design assumes an insitu remediation technology will be used to remediate the site.

Section 5
Subcontracting

The Schedule 2.11s for each subcontractor are provided in Appendix B and subcontractor pricing backup in Appendix C. CDM proposes to engage subcontractors to provide the services outlined in the following subsections.

5.1 Analytical Laboratory – Upstate Labs

CDM is proposing to use the Upstate Labs as the analytical laboratory subcontractor for the Pall site for the environmental sampling analysis task under the supplemental site work. They are located in East Syracuse, New York.

5.2 Investigation Derived Waste – Innovative Recycling Technologies

CDM is proposing to utilize Innovative Recycling to provide removal and disposal of investigation derived waste. This includes soil cuttings and all water produced under the supplemental site investigation work. They are located in Lindenhurst, New York

5.3 Data Validation – Conestoga-Rover & Associates

CDM is proposing to utilize Conestoga-Rover & Associates to provide data validation services for the analytical data collected during the environmental sampling task. They are located in Niagara Falls, NY.

5.4 Geoprobe – Aztech Technologies Inc.

CDM is proposing to utilize Aztech Technologies Inc. to provide Geoprobe services for collected soil samples by direct push during the environmental sampling task. They are located in Ballston Spa, NY.

5.5 Dye Testing Lab – Crawford Hydrology Lab

CDM is proposing to utilize Crawford to provide the dye for injection into the groundwater and analysis during groundwater testing for 28 weeks during the tracer testing. They are located Bowling Green, Kentucky.

5.6 Dye Injection – Earth Data Northeast

CDM is proposing to utilize Earth Data to inject the dye into the selected wells during the tracer testing. They are located in Exton, PA.

5.7 Geophysical Survey – Advanced Geological

CDM is proposing to utilize Advanced Geological to provide geophysical survey of site utilities prior to drilling. All Geoprobe locations will be cleared by Advanced prior to sampling. They are located in Malvern, PA.

Section 6
MBE/WBE Utilization Plan

To meet the requirements of the MBE/WBE program, CDM has prepared the following utilization plan. An M/WBE-EEO work plan is provided in Appendix D.

Under the NYSDEC Standby contracts CDM has established master service agreements with both M/WBE and non-M/WBE subcontractors for laboratory and data validation. CDM utilizes our laboratory and data validation subcontractors by rotating through the standby list as requested by the Department. CDM continues to try to identify M/WBE labs with the proper certifications in NYS to add to our list of standby laboratory subcontractors.

CDM solicited price quotes for all subcontractor services including those on our standby list and selected the lowest price subcontractors. A copy of the bid comparisons for the work assignment for all services provided are in Attachment C.

Total Dollar Value of the work assignment	**$396,484**
MBE Percentage Goal	15%
MBE Dollar Value Goal	$59,472
MBE Dollar Value Proposed	$0
MBE Percentage Proposed	0%
WBE Percentage Goal	5%
WBE Dollar Value Goal	$19,824
WBE Dollar Value Proposed	$17,897
WBE Percentage Proposed	4.5%
Combined M/WBE Percentage Goal	20%
Combined M/WBE Dollar Value Goal	$79,296
Combined M/WBE Dollar Value Proposed	$17,897
Combined MBE/WBE Percentage Proposed	4.5%

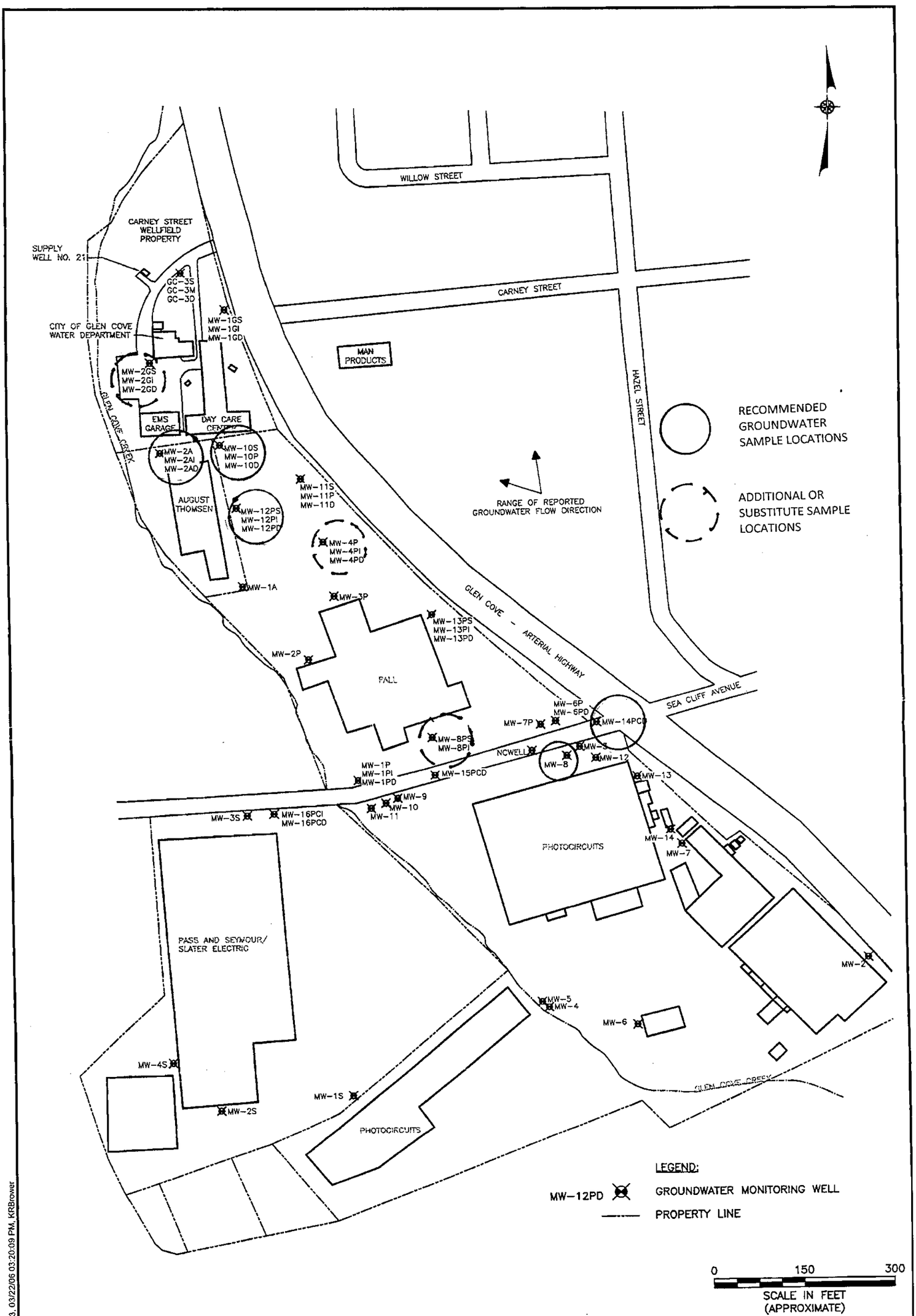
Minority and woman-owned firms are expected to participate as follows:

Services to be Provided	Subcontractor Name and Contact Information	M/WBE	Proposed Subcontract Price
Geoprobe	Aztech Technologies	WBE	$17,897

Table 2-1
Analytical Sample Summary
Pall Corporation Site
Glen Cove, New York

Analytical Parameter	Sample Matrix	Number of Samples	Analytical Method	Field Duplicates (a)	Ambient Air Sample (b)	Field Blank (c)	Trip Blanks (d)	Container (e)	Sample Preservation	Holding Time
Task 2 - Groundwater Sampling										
Groundwater Samples from wells										
VOCs + Freon 8260B	Groundwater	18	VOA 8260B	2	–	1	1	3 - 40ml clear glass vial with Teflon septum	HCl to pH <2; Cool to 4°C	14 days
TOC	Groundwater	12	EPA 415	0	–	0	0	3 - 40ml clear glass vial with Teflon septum	HCl to pH <2; Cool to 4°C	28 days
Dissolved Organic Carbon	Groundwater	12	SM5310 or EPA 3050	0	–	0	–	3 - 40ml clear glass vial with Teflon septum	HCl to pH <2; Cool to 4°C	28 days
COD	Groundwater	12	EPA 410.4	0	–	0	–	125 ml polyethylene or glass	Cool to 4°C	28 days
BOD	Groundwater	12	EPA 405.1	0	–	0	–	2L polyethylene	Cool to 4°C	48 hours
Nitrate	Groundwater	12	EPA 353.2	0	–	0	–	250ml polyethylene	Cool to 4°C	48 hours
Sulfate	Groundwater	12	EPA 375.4	0	–	0	–	250ml polyethylene	Cool to 4°C	48 hours
Phosphate	Groundwater	12	SM4500P-E	0	–	0	–	100ml polyethylene or glass	Cool to 4°C	7 days
Total Alkalinity	Groundwater	12	EPA 310.1	0	–	0	–	300ml polyethylene or glass	Cool to 4°C	14 days
Total Iron	Groundwater	12	EPA 200	0	–	0	–	300ml polyethylene or glass	Cool to 4°C, HNO_3 to pH<2	6 months
Piority Pollutant Metals	Groundwater	12	EPA 6010	0	–	0	–	300ml polyethylene or glass	Cool to 4°C, HNO_3 to pH<2	6 months
Methane/ethane/ ethene (g)	Groundwater	12	AM20GAX	0	–	0	–	300ml polyethylene or glass	Cool to 4°C	6 months
Task 2 - Soil Sampling										
TCL VOCs + Freon	Soil	48	EPA 8260B	4	–	0	0	3 - 40ml clear glass vial	HCl to pH <2;	14 days
TOC	Soil	6	EPA 415	1	–	0	–		None	28 days
PP Metals	Soil	6	EPA 3050 (digestion) & EPA 6010	1	–	0	–		None	28 days
Task 4 - Vapor Intrusion Sampling- Five Location, one subslab & One indoor air per location and one ambient air sample per day										
VOCs	Air	15	TO-15	2	–	0	0	6-liter SUMMA canister	None	30 days
TASK 2 - IDW Disposal Samples										
Soil and drill cuttings during well EW-1 installation										
RCRA characteristics	Soil	2	RCRA characteristics	-	-	–	–	8-Ounce Glass Jars	None	30 days

Notes:
(a) A minimum of 5% of all samples will be collected in duplicate.
(b) Ambient air samples will be collected at each structure where indoor air sampling is being conducted.
(b) Groundwater field blanks are collected at a frequency of 1 per day.
(d) Trip blanks are collected at a frequency of 1 per sample cooler or 1 per every five days.
(e) Cannister should be used within 15 days of being shipped to the field for sample collection.
(f) SUMMA canisters containing samples are not spiked in the field.
(g) Microseeps laboratory -- sole source



PALL AND PHOTOCIRCUITS CORPORATIONS RI/FS
GLEN COVE, NEW YORK

LOCATIONS OF EXISTING MONITORING WELLS

FIGURE 3-1

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

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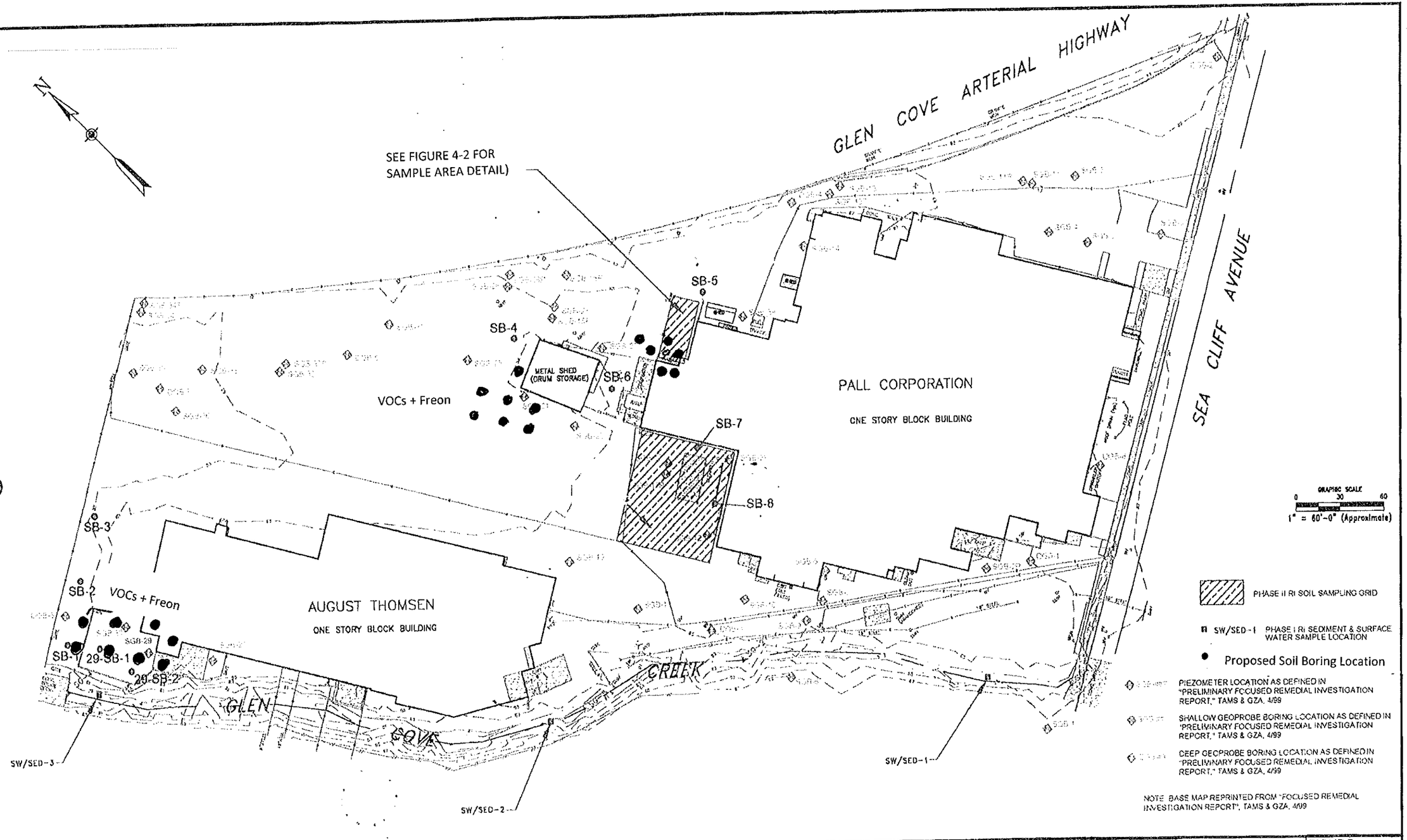


ENVIRO-SCIENCES, INC.
312 EAST MAIN STREET
PATCHOGUE, NEW YORK 11772
PHONE: 631-207-9005 FAX: 631-207-3614

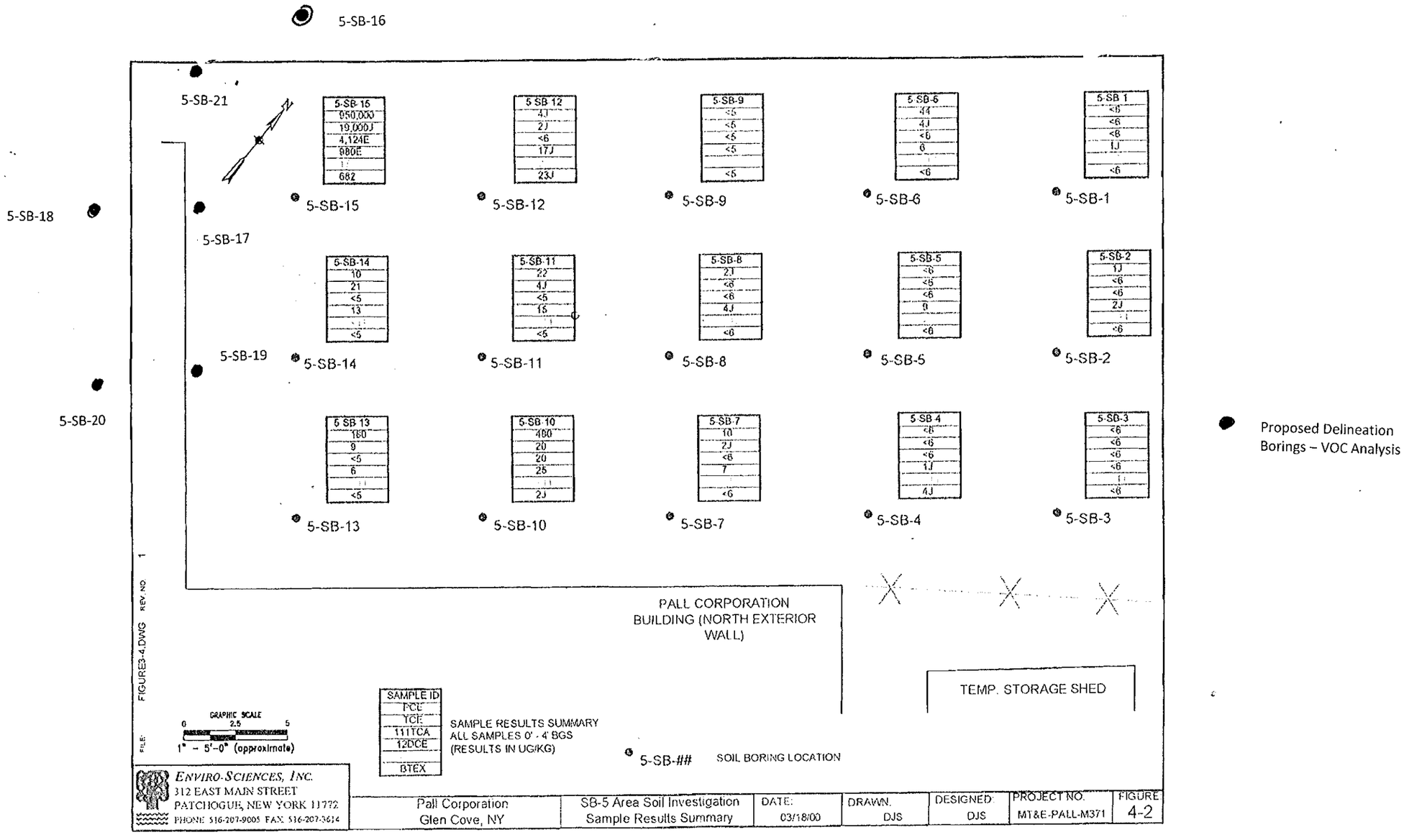
PALL

Pall Corporation
30 Sea Cliff Avenue
Glen Cove, New York 11542

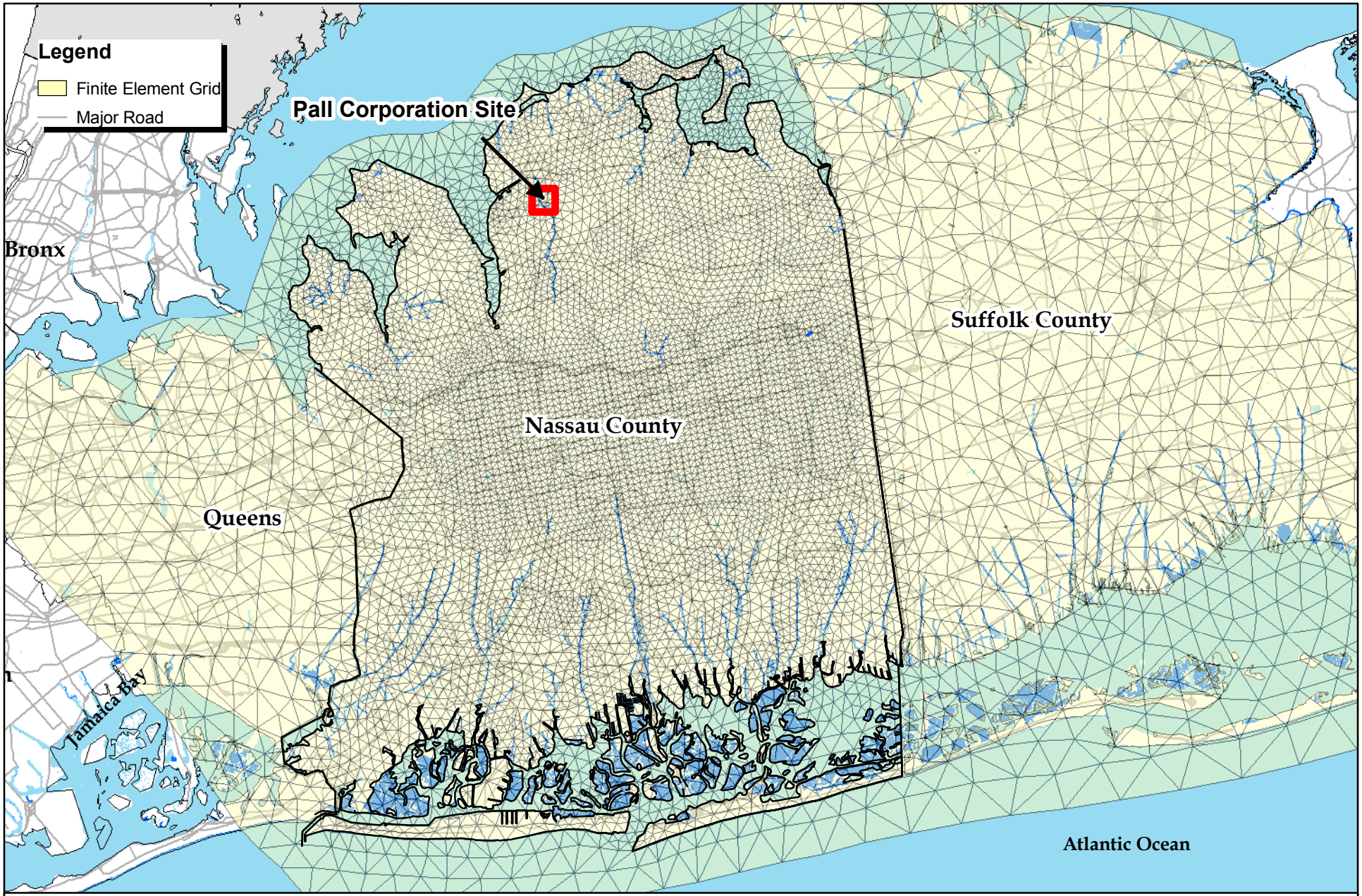
Phase II Remedial Investigation Soil Boring Locations
(On-Site Investigation)

DATE:	3/12/00	DRAWN:	DJS
REV. NO.	1	DESIGNED:	DJS
PROJECT NO.	MT&E-PALL-M371	FILE:	FIGURE3-3.DWG

FIGURE: 3-3

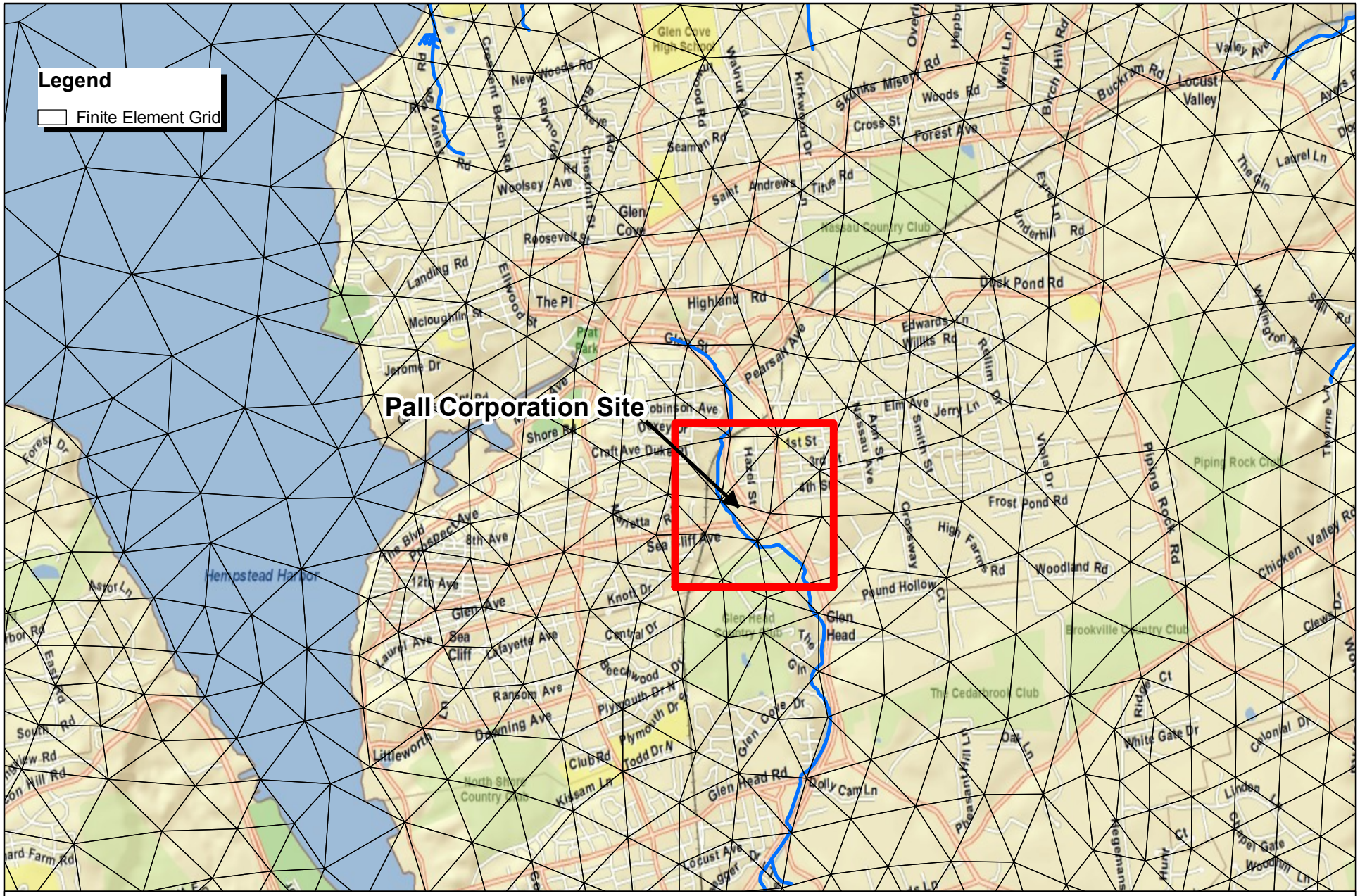


Proposed Delineation Borings – VOC Analysis



CDM

Figure 1
Nassau County Regional Groundwater Model
Finite Element Grid



CDM

Figure 2
Nassau County Regional Groundwater Model
Finite Element Grid at Pall Corporation Site

Appendix A
Health and Safety Plan

HEALTH AND SAFETY PLAN FORM
CDM Health and Safety Program

This document is for the exclusive use of CDM and its subcontractors

CDM (Camp Dresser & McKee)
PROJECT DOCUMENT #: 0897

PROJECT NAME	Pall Corporation Site No: 130053B	**PROJECT#**	D-006131-4	**REGION**	PSG NER
SITE ADDRESS	30-36 Seacliff Avenue Glen Cove, NY 11542	**CLIENT ORGANIZATION** **CLIENT CONTACT** **CLIENT CONTACT PHONE #**		NYSDEC Jeffrey Dyber 518 / 402-9621	

( ) AMENDMENT TO EXISTING APPROVED H&SP?
( ) H&SP AMENDMENT NUMBER? _____ **( ) DATE OF PREVIOUS H&SP APPROVAL** _____

OBJECTIVES OF FIELD WORK:
(e.g. collect surface soil samples):

1) Measure GW elevations and sample GW monitoring wells

2) Sub-surface soil sampling using Geoprobe®

3) Hydraulic testing/pump testing

SITE TYPE: *Check as many as applicable*

Active	( )	Landfill	( )	Unknown	( )
Inactive	(X)	Uncontrolled	(X)	Military	( )
Secure	(X)	Industrial	(X)	Other (specify)	
Unsecure	( )	Recovery	( )		
Enclosed space	( )	Well Field	( )		

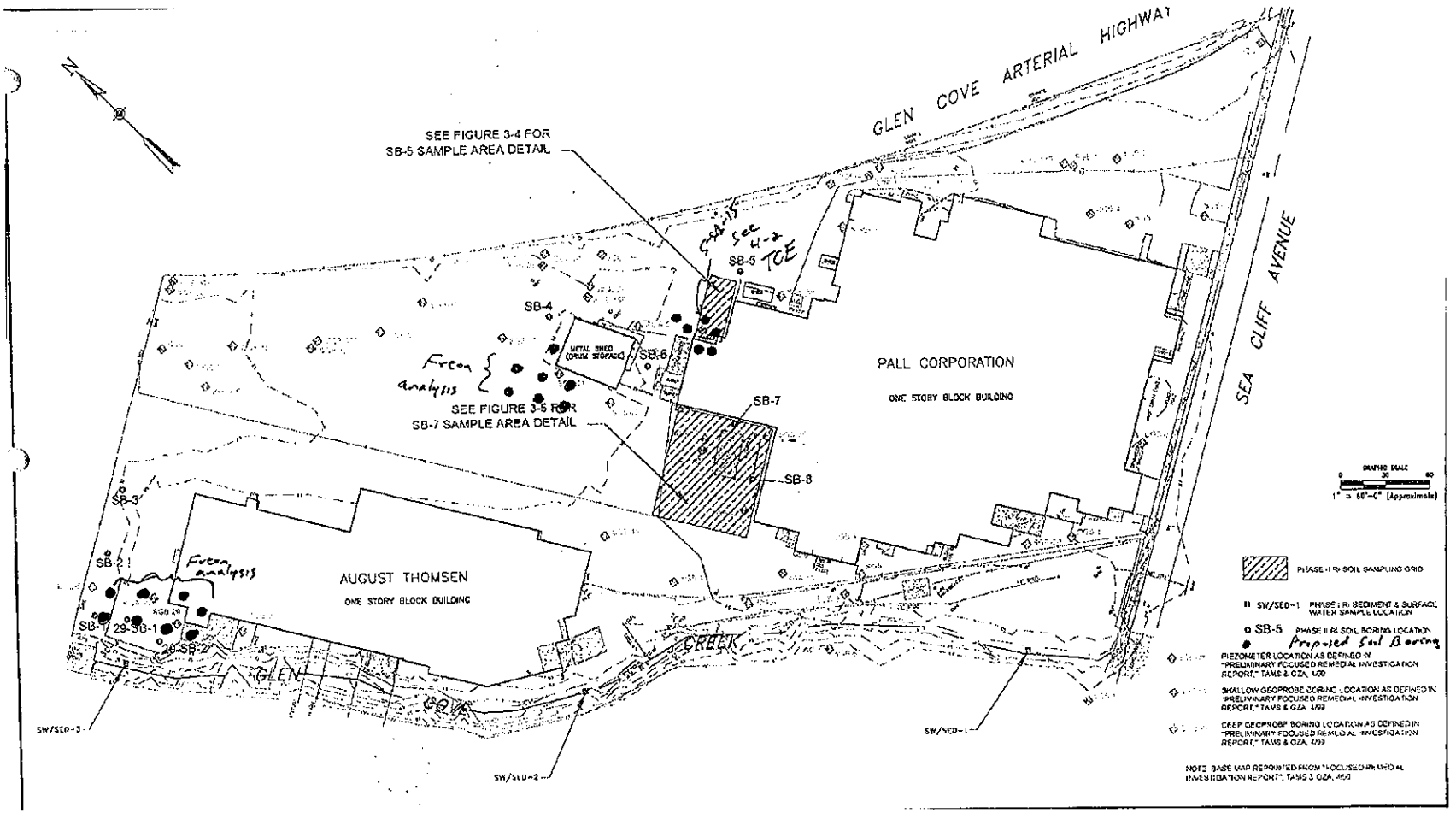
All requirements described in the **CDM Health and Safety Manual** are incorporated in this health and safety plan by reference.

PERSONNEL AND RESPONSIBILITIES NAMES OF WORK CREW MEMBERS	**COMPANY or DIVISION**	**SUPERVISORY TRAINED?**	**PROJECT OR SITE RESPONSIBILITIES**	**Tasks On Site?**
John Blaum	ERD	Yes/Level B	Work Assignment Manager	1-2-3-4-5-6
Eric Rosenzweig	ERD	Yes/Level C	Site Health & Safety Coordinator	1-2-3-4-5-6
Ricky Chenenko	ERD	Yes\Level B	2nd Health & Safety Coordinator	1-2-3-4-5-6
Phillip Dixon	WSD	No\Level C	Site Engineer	1-2-3-4-5-6
Paresh Patel	ERD	No\Level C	Site Engineer	1-2-3-4-5-6
			Site Technician	1-2-3-4-5-6
			Subcontractor	1-2-3-4-5-6

BACKGROUND REVIEW: ( ) Complete ( ) Incomplete

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	CDM (Camp Dresser & McKee)
CDM Health and Safety Program	*use of CDM and its subcontractors*	PROJECT DOCUMENT #:0897

SITE MAP: *Show Exclusion, Contamination Reduction, and Support Zones. Indicate Evacuation and Reassembly Points*



HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	**CDM (Camp Dresser & McKee)**
CDM Health and Safety Program	*use of CDM and its subcontractors*	**PROJECT DOCUMENT #: 0897**

HISTORY: *Summarize conditions that relate to hazard. Include citizen complaints, spills, previous investigations or agency actions, known injuries, etc.*

The site is located in the Sea Cliff Industrial Area, an area that has been used for variable industrial processes from the 1940s to present. VOCs have been a concern at this site in the soil and groundwater due to spills associated with past practices. The contaminants of concern (COC) in both soils and groundwater are: PCE, TCE, 1,2 DCE , Vinyl Chloride, and Freon. During the Preliminary Site Assessment conducted by Nassau County Department of Public Works, the maximum groundwater PCE, TCE and 1,2 DCE concentrations have been reported as 140,000 ppb, 9,600 ppb and 15,000 ppb respectively. The NYSDEC In 1996, the NYSDEC listed the site as class 2 site in the registry of Inactive Hazardous Waste Disposal Site in New York (the Registry).The NYSDEC and the Pall Corporation entered into a Consent Order covering on-site contamination and RI/FS program. The RI was conducted between 1998 and 2000. Following the RI, two separate Insitu Chemical Oxidation pilot tests are conducted on site between 2004 and 2006. Currently NYSDCC and CDM are working on the remedial design to remediate the site for groundwater and soil contamination.

WASTE TYPES: (X) Liquid (X) Solid ( ) Sludge (X) Gas ( ) Unknown ( ) Other, specify:

WASTE CHARACTERISTICS: *Check as many as applicable.*

( ) Corrosive ( ) Flammable ( ) Radioactive

( ) Toxic (X) Volatile ( ) Reactive

( ) Inert Gas ( ) Unknown

( ) Other: _____

WORK ZONES:

The exclusion zone will include all points within 10 feet of the investigation activities or a sampling location. The contamination reduction zone will consist of a ten foot radius outside of the exclusion zone. The support zone will be a 10 foot radius outside of the CRZ. All zones are mobile, established in consideration of the prevailing wind direction and will be established and moved as work crew advances to new locations.

HAZARDS OF CONCERN: *Check as many as applicable.*

( ) Heat Stress CDM Guideline (X) Noise CDM Guideline
(X) Cold Stress CDM Guideline ( ) Inorganic Chemicals
( ) Explosive/Flammable (X) Organic Chemicals
( ) Oxygen Deficient (X) Motorized Traffic
( ) Radiological (X) Heavy Machinery
( ) Biological (X) Slips & Falls CDM Guideline
( ) Other: _____
( ) Other: _____

FACILITY'S PAST AND PRESENT DISPOSAL METHODS AND PRACTICES:

The Pall Corporation used both buildings in the manufacturing of filtration products and used and stored TCE and PCE as well as Freon at the site.

This plan incorporates CDM's procedure for: *(Click on the relevant topics to download the hazard guideline. Delete irrelevant topics.)*

Housekeeping	Traffic and Work Zone Safety	Tools and Power Equipment	Working Safely Around Geoprobes
Manual Material Handling	Excavations	Working Around Heavy Equipment	Hazardous Waste Site Controls
Electrical Safety	Ladders	Working Near or Over Water	Working Safely Around Drill Rigs
Lock Out/Tag Out	Scaffolds	Flammable and Combustible Liquids	
Compressed Gases	Mechanized Personnel Lifts	Hazardous Waste Site Decontamination	

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	**CDM (Camp Dresser & McKee)**
CDM Health and Safety Program	*use of CDM and its subcontractors*	**PROJECT DOCUMENT #: 0897**

DESCRIPTION AND FEATURES: *Include principal operations and unusual features (containers, buildings, dikes, power lines, hill slopes, rivers, etc.)*

The site is approximately 5 acres consisting of two one story buildings, one unoccupied and one occupied by August Thomsen Company that manufactures pastry bags. The remainder of the property is paved parking and undeveloped land. It is surrounded by industrial/commercial facilities and the Glen Cove Arterial Highway borders the East side of the site. The nearest surface water source is the Glen Cove Creek adjacent to the site to the west. The site is relatively flat. The objective of this project is to design the remedial system that would potentially remove VOCs from the site.

SURROUNDING POPULATION: (X) Residential (X) Industrial (X) Commercial ( ) Rural ( ) Urban OTHER:

HAZARDOUS MATERIAL SUMMARY: ***Highlight or bold waste types and estimate amounts by category.***

CHEMICALS: *Amount/Units:*	**SOLIDS:** *Amount/Units:*	**SLUDGES:** *Amount/Units:*	**SOLVENTS:** *Amount/Units:*	**OILS:** *Amount/Units:*	**OTHER:** *Amount/Units:*
Acids	Fly ash	Paints	Ketones	Oily Wastes	Laboratory
Pickling Liquors	Mill or Mine Tailings	Pigments	Aromatics	Gasoline	Pharmaceutical
Caustics	Asbestos	Metals Sludges	Hydrocarbons	Diesel Oil	Hospital
Pesticides	Ferrous Smelter	POTW Sludge	Alcohols	Lubricants	Radiological
Dyes or Inks	Non-Ferrous Smelter	Distillation Bottoms	Halogenated (chloro, bromo)	Polynuclear Aromatics	Municipal
Cyanides	Metals in Soils	Aluminum	Esters	PCBs	Construction
Phenols	Dioxins		Ethers	Heating Oil	Munitions
Halogens					
Other - *specify*	Other - *specify*	Other - *specify*	Other - *specify*	Other - *specify*	Other - *specify*

KNOWN CONTAMINANTS		HIGHEST OBSERVED CONCENTRATION	PEL/TLV *ppm or mg/m3 (specify)*	IDLH *ppm or mg/m3 (specify)*	Warning Concentration *(in ppm)*	SYMPTOMS & EFFECTS OF ACUTE EXPOSURE	PHOTO IONIZATION POTENTIAL
Tetrachloroethylene (PCE)	GW	140,000 ug/L	25 ppm	150 ppm	47 ppm	Irritated eyes, nose, throat, flushed	9.32
Trichloroethylene (TCE)	GW	9,600 ug/L	50 ppm	1,000 ppm	82 ppm	Vertigo, visual disturbance,	9.45
cis-1, 2-Dichloroethene (cis-DCE)	GW	15,000 ug/L	200 ppm	1,000 ppm	1.1 ppm	Irritated eyes, nose, CNS depression	10.00
Vinyl Chloride (VC)	GW	1,000 ug/L	1 ppm	Carc	NA	Weakness, Somach Pain, Cancer	10.00
Tetrachloroethylene (PCE)	S	950 mg/kg	25 ppm	150 ppm	47 ppm	Irritated eyes, nose, throat, flushed	9.32
Trichloroethylene (TCE)	S	19 mg/kg	50 ppm	1,000 ppm	82 ppm	Vertigo, visual disturbance,	9.45
cis-1, 2-Dichloroethene (cis-DCE)	S	4.21 mg/kg	200 ppm	1,000 ppm	1.1 ppm	Irritated eyes, nose, CNS depression	10.00
Tetrachloroethylene (PCE)	A	6.6 ug/m3	25 ppm	150 ppm	47 ppm	Irritated eyes, nose, throat, flushed	9.32

NA = Not Available **NE = None Established** **U = Unknown**

Verify your access to an MSDS for each chemical you will use at the site.

S = Soil SW = Surface Water T = Tailings W = Waste TK = Tanks SD = Sediment
A = Air GW = Ground Water SL = Sludge D = Drums L = Lagoons OFF = Off-Site

HEALTH AND SAFETY PLAN FORM CDM Health and Safety Program	*This document is for the exclusive use of CDM and its subcontractors*	CDM (Camp Dresser & McKee) PROJECT DOCUMENT #: 0897	
SPECIFIC TASK DESCRIPTIONS	**Disturbing the Waste?**	**TASK - SPECIFIC HAZARDS**	**HAZARD & SCHEDULE**
1 Measure GW elevations and sample GW monitoring wells.	Intrusive	Slip, Trip, Fall, contamination exposure to skin etc. Use golves when collecting GW samples.	Low Hazard
	Non-intrusive		
2 Sub-surface soil sampling using Geoprobe®	Intrusive	Slip, Trips, Falls, heavy equipment hazards. Use hard hat in the areas in the vicinity of Geoprobe®	Moderate Hazard
	Non-intrusive		
3 Hydraulic/Pump testing.	Intrusive	Use gloves when conducting the pump test.	Low Hazard
	Non-intrusive		
4	Intrusive		
	Non-intrusive		
5	Intrusive		
	Non-intrusive		
6	Intrusive		
	Non-intrusive		
SPECIALIZED TRAINING REQUIRED: **None**		**SPECIAL MEDICAL SURVEILLANCE REQUIREMENTS:** **None**	
OVERALL HAZARD EVALUATION: ( ) High ( ) Medium (X) Low ( ) Unknov *(Where tasks have different hazards, evaluate each.)*			
JUSTIFICATION: Overall hazard is low due to VOC concentrations in the soils and groundwater being low in the proposed work area.			
FIRE/EXPLOSION POTENTIAL: ( ) High ( ) Medium (X) Low ( ) Unknown			

HEALTH AND SAFETY PLAN FORM | *This document is for the exclusive* | **CDM (Camp Dresser & McKee)**

CDM Health and Safety Program | *use of CDM and its subcontractors* | **PROJECT DOCUMENT #: 0897**

PROTECTIVE EQUIPMENT: *Specify by task. Indicate type and/or material, as necessary. Group tasks if possible. Use copies of this sheet if needed.*

BLOCK A

TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
LEVEL: A - B - C - D - Modified
(X) Primary ( ) Contingency

Respiratory: (X) Not needed
( ) SCBA, Airline:
( ) APR:
( ) Cartridge:
( ) Escape Mask:
( ) Other:

Head and Eye: ( ) Not needed
(X) Safety Glasses:
( ) Face Shield:
( ) Goggles:
(X) Hard Hat:
( ) Other:

Boots: ( ) Not needed
(X) Steel-Toe ( ) Steel Shank
( ) Rubber ( ) Leather
( ) Overboots:

Prot. Clothing: (X) Not needed
( ) Encapsulated Suit:
( ) Splash Suit
( ) Apron:
( ) Tyvek Coverall or
( ) Saranex Coverall
( ) Cloth Coverall:
( ) Other:

Gloves: ( ) Not needed
( ) Undergloves:
(X) Gloves: Nitrile
( ) Overgloves:

Other: specify below
( ) Tick Spray
( ) Flotation Device If Over Water
(X) Hearing Protection
(X) Sun Screen

BLOCK B

TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
LEVEL: A - B - C - D - Modified
( ) Primary (X) Contingency

Respiratory: ( ) Not needed
( ) SCBA, Airline:
( ) APR:
( ) Cartridge:
( ) Escape Mask:
( ) Other:

Head and Eye: ( ) Not needed
( ) Safety Glasses:
( ) Face Shield:
( ) Goggles:
( ) Hard Hat:
( ) Other:

( ) Overboots: Latex

Prot. Clothing: ( ) Not needed
( ) Encapsulated Suit:
( ) Other:

Gloves: ( ) Not needed
( ) Undergloves:
( ) Gloves:
( ) Overgloves:

( ) Hearing Protection
( ) Sun Screen

BLOCK C

TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
LEVEL: A - B - C - D - Modified
( ) Primary ( ) Contingency

Respiratory: ( ) Not needed
( ) SCBA, Airline:
( ) APR:
( ) Cartridge:
( ) Escape Mask:
( ) Other:

Head and Eye: ( ) Not needed
( ) Safety Glasses:
( ) Face Shield:
( ) Goggles:
( ) Hard Hat:
( ) Other:

Boots: ( ) Not needed
( ) Steel-Toe ( ) Steel Shank
( ) Rubber ( ) Leather
( ) Overboots:

Prot. Clothing: ( ) Not needed
( ) Encapsulated Suit:
( ) Splash Suit
( ) Apron:
( ) Tyvek Coverall
( ) Saranex Coverall
( ) Cloth Coverall:
( ) Other:

Gloves: ( ) Not needed
( ) Undergloves:
( ) Gloves:
( ) Overgloves:

Other: specify below
( ) Tick Spray
( ) Flotation Device
( ) Hearing Protection
( ) Sun Screen

BLOCK D

TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
LEVEL: A - B - C - D - Modified
( ) Primary ( ) Contingency

Respiratory: ( ) Not needed
( ) SCBA, Airline:
( ) APR:
( ) Cartridge:
( ) Escape Mask:
( ) Other:

Head and Eye: ( ) Not needed
( ) Safety Glasses:
( ) Face Shield:
( ) Goggles:
( ) Hard Hat:
( ) Other:

Boots: ( ) Not needed
( ) Steel-Toe ( ) Steel Shank
( ) Rubber ( ) Leather
( ) Overboots:

Prot. Clothing: ( ) Not needed
( ) Encapsulated Suit:
( ) Splash Suit
( ) Apron:
( ) Tyvek Coverall
( ) Saranex Coverall
( ) Cloth Coverall:
( ) Other:

Gloves: ( ) Not needed
( ) Undergloves:
( ) Gloves:
( ) Overgloves:

Other: specify below
( ) Tick Spray
( ) Flotation Device
( ) Hearing Protection
( ) Sun Screen

This health and safety plan form constitutes hazard analysis per 29 CFR 1910.132

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	CDM (Camp Dresser & McKee)
CDM Health and Safety Program	*use of CDM and its subcontractors*	PROJECT DOCUMENT #: 0897

MONITORING EQUIPMENT: *Specify by task. Indicate type as necessary. Attach additional sheets if needed.*

INSTRUMENT	TASK	ACTION GUIDELINES		COMMENTS
Combustible Gas Indicator	1-2-3-4-5-6-7-8	0-10% LEL 10-25% LEL >25% LEL 21.0% O2 <21.0% O2 <19.5% O2	*No explosion hazard* *Potential explosion hazard; notify SHSC* *Explosion hazard; interrupt task/evacuate* *Oxygen normal* *Oxygen deficient; notify SHSC* *Interrupt task/evacuate*	(X) Not Needed
Radiation Survey Meter	1-2-3-4-5-6-7-8	3 x Background: >2mR/hr:	*Notify HSM* *Establish REZ*	(X) Not Needed
Photoionization Detector _10.6_eV Lamp Type___	[1-2-3]-4-5-6-7-8	*Specify:* 0 to 5 ppm: Level D. >5 ppm: Leave area. Call HSM		( ) Not Needed Monitor breathing zone continuously. Compare action levels to time-averaged breathing zone measurements
Flame Ionization Detector Type_____	1-2-3-4-5-6-7-8	*Specify:*		(X) Not Needed
Single Gas Type_____ Type_____	1-2-3-4-5-6-7-8	*Specify:*		(X) Not Needed
Respirable Dust Monitor Type_____ Type_____	1-2-3-4-5-6-7-8	*Specify:*		(X) Not Needed
Other *Specify:* Type_____ Type_____	[1-2-3]-4-5-6-7-8	*Specify:* If team notices unusual odors or irritation of the eye or throat, they will leave the area.		( ) Not Needed
Other *Specify:* Type_____ Type_____	1-2-3-4-5-6-7-8	*Specify:*		( ) Not Needed

DECONTAMINATION PROCEDURES

ATTACH SITE MAP INDICATING EXCLUSION, DECONTAMINATION, & SUPPORT ZONES AS PAGE TWO

Personnel Decontamination	**Sampling Equipment Decontamination**	**Heavy Equipment Decontamination**
Summarize below or attach diagram;	*Summarize below or attach diagram;*	*Summarize below or attach diagram;*
Team members will remove their protective clothing in the following order: 1. Equipment drop. 2. Glove removal 3. Hand and face wash. Remove gloves after each sample ( ) Not Needed	Sampling equipment will be decontaminated by: 1. Gross mechanical removal of dirt. 2. Detergent in water wash. 3. Potable water rinse. 4. Distilled water rinse. ( ) Not Needed	CDM will require heavy equipment contractors to decontaminate their equipment before it leaves the site. ( ) Not Needed
Containment and Disposal Method	**Containment and Disposal Method**	**Containment and Disposal Method**
Disposable protective equipment will be disposed of in CDM dumpster, unless heavily contaminated. If heavily contaminated, disposable equipment will be contained in drums and left on site for proper disposal.	Sampling equipment cleaning water solutions will be allowed to drain to the groundwater. If heavily contaminated, disposable equipment will be contained in drums and left on site for proper disposal.	Decontamination fluids will be released to the ground, unless heavily contaminated. If heavily contaminated, contractor will contain the waste in drums, and left on site for proper disposal.

HAZARDOUS MATERIALS TO BE BROUGHT ONSITE

Preservatives		*Decontamination*		*Calibration*	
( ) Hydrochloric Acid	( ) Zinc Acetate	(X) Alconox ™	( ) Hexane	(X) 100 ppm isobutylene	( ) Hydrogen Sulfide
( ) Nitric Acid	( ) Ascorbic Acid	( ) Liquinox ™	( ) Isopropanol	( ) Methane	( ) Carbon Monoxide
( ) Sulfuric Acid	( ) Acetic Acid	( ) Acetone	( ) Nitric Acid	( ) Pentane	( ) pH Standards
( ) Sodium Hydroxide	( ) Other:	( ) Methanol	( ) Other:	( ) Hydrogen	( ) Conductivity Std
		( ) Mineral Spirits		( ) Propane	( ) Other:

HEALTH AND SAFETY PLAN FORM *This document is for the exclusive* **CDM (Camp Dresser & McKee)**

CDM Health and Safety Program *use of CDM and its subcontractors* **PROJECT DOCUMENT #:**

EMERGENCY CONTACTS

Water Supply	
Site Telephone	
EPA Release Report #:	800 / 424 - 8802
CDM 24-Hour Emergency #:	CED 732 / 539 - 8128
Facility Management	
Other (specify): Underground Utility	800 / 962 - 7962
CHEMTREC Emergency #:	800 / 424 - 9300

SAFETY NARRATIVE: *Summarize below*

If CDM work team observes hazards for which they have not prepared, they will withdraw from the area and call the CDM Project Manager

SHSC will designate evacuation routes. Teams will cease work if they see lightning or thunder storms in the area.

CDM may rely on instruments operated by contractor personnel only upon HSM approval. If contractor directs a higher level of protection than this plan does, CDM personnel will wear that level. CDM personnel may choose to wear more protection than directed by this plan.

Contractor will be expected to inspect the drill rig and certify its suitability for the project to the CDM site health and safety coordinator.

If work team encounters pure perchloroethylene, the safety procedures described in this safety plan should protect them adequately. Team members will avoid contact, and minimize their exposure to the vapors emitted.

HEALTH AND SAFETY PLAN APPROVALS (H&S Mgr must sign each plan)

Prepared by	Paresh Patel/Edison	Date	21-Jan-09
HSC Signature		Date	
HSM Signature		Date	Feb 09, 2009

EMERGENCY CONTACTS	**NAME**	**PHONE**
Health and Safety Manager	Chris Marlowe	732 / 590 - 4632
Project Manager	John Blaum	518/782-4509
Site Safety Coordinator	Eric Rosenzweig	518/782-4558
Client Contact	Jeffrey Dyber	518 / 402-9621
Other *(specify)*		
Environmental Agency		
State Spill Number	New York	(800) 457 - 7362
Fire Department		911
Police Department		911
State Police		911
Health Department		
Poison Control Center	Nationwide	800 / 222 - 1222
Occupational Physician	Dr. Jerry Berke	800/350 - 4511

MEDICAL EMERGENCY **PHONE**

Nam North Shore Hospital

Phoi 516 674-7501

Add ss: 101 Saint Andrews Lane, Glen Cove, NY 11542

Route to Hospital:

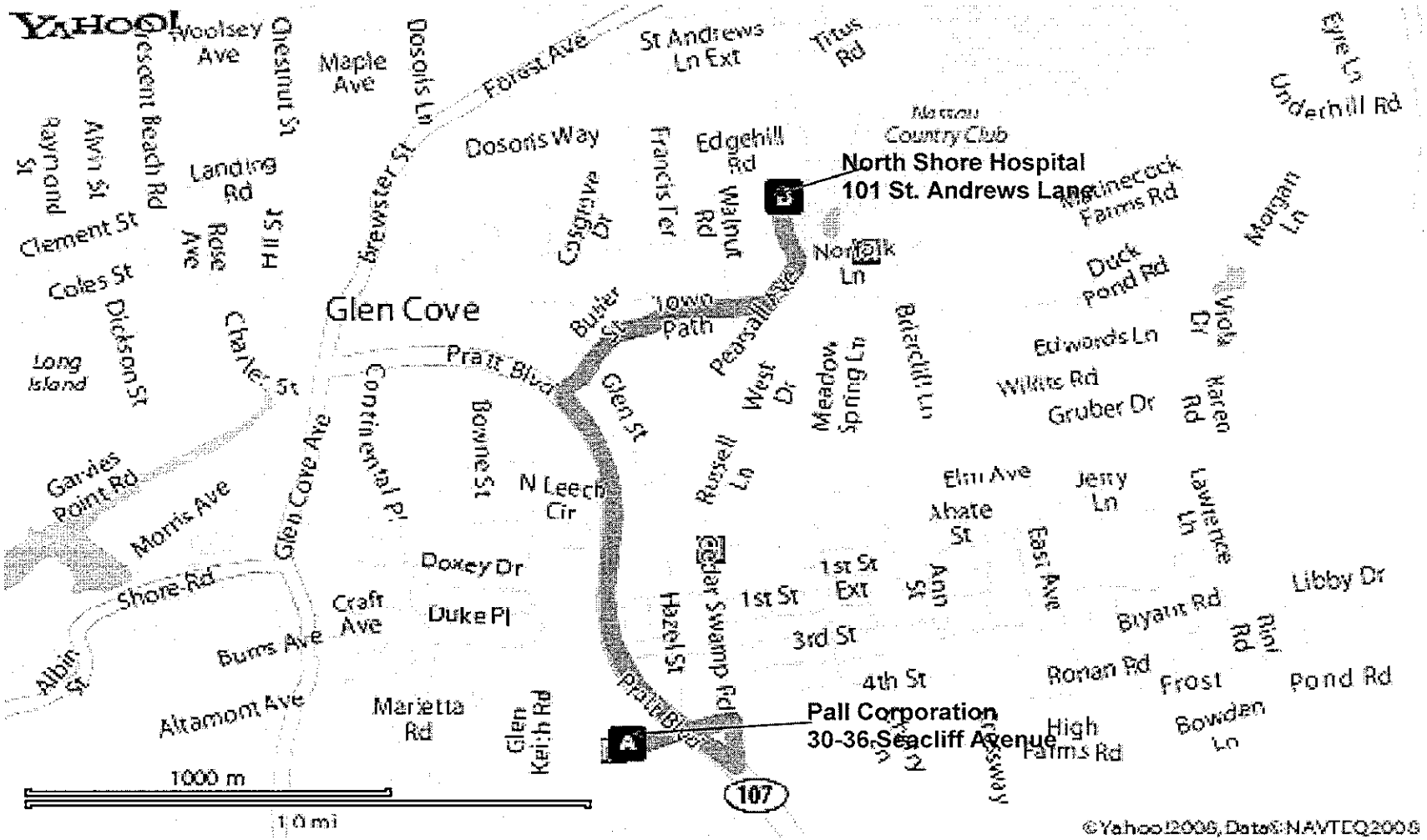
1. Start at 30 SEA CLIFF AVE, GLEN COVE going towardHAZEL ST go 0.14 mi
2. Continue on C. COLUMBUS AVE go 317 ft
3. Turn Right on CEDAR SWAMP RD go 0.1 mi
4. Turn Right on PRATT BLVD(RT-107 N) go 0.85 mi
5. Turn Right on PRATT BLVD go 264 ft
6. Bear Left on TOWN PATH go 0.41 mi
7. Bear Left on PEARSALL AVE go 0.1 mi
8. Continue on ST ANDREWS LN go 0.14 mi
9. Arrive at 10 SAINT ANDREWS LN, GLEN COVE, on the Right

Distance to Hospital 1.85 miles

HEALTH AND SAFETY PLAN FORM
CDM Health and Safety Program
ROUTE TO HOSPITAL MAP:

This document is for the exclusive use of CDM and its subcontractors

CDM (Camp Dresser & McKee)
PROJECT DOCUMENT #:0897



HEALTH AND SAFETY PLAN SIGNATURE FORM

CDM Health and Safety Plan

All site personnel must sign this form indicating receipt of the H&SP. Keep this original on site. It becomes part of the permanent project files. Send a copy to the Health and Safety Manager (HSM).

SITE NAME/NUMBER: Pall Corporation - 0897

DIVISION/LOCATION: ERD/Albany Office

CERTIFICATION:

I understand, and agree to comply with, the provisions of the above referenced H&SP for work activities on this project. I agree to report any injuries, illnesses or exposure incidents to the site Health and Safety Coordinator (SHSC). I agree to inform the SHSC about any drugs (legal and illegal) that I take within three days of site work.

PRINTED NAME	SIGNATURE	DATE

Appendix B
Schedule 2.11s

Schedule 2.11(a)

Summary of Work Assignment Price

Work Assignment Number D006131-4 - Pall Corporation

1) Direct Salary Costs (Schedules 2.10(a) and 2.11(b))			$101,218
2) Indirect Costs (Schedule 2.10(g))			$169,945
3) Direct Non-Salary Costs (Schedules 2.10(b)(c)(d) and 2.11(c)(d))			$31,890
4) Subcontract Costs			
Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.10(e) and 2.11(e))			
Name of Subcontractor	**Services To Be Performed**		**Subcontract Price**
i) None			
A) Total Cost-Plus-Fixed-Fee Subcontracts		$0	
Unit Price Subcontracts (Schedule 2.10 (f) and 2.11 (f))			
Name of Subcontractor	**Services To Be Performed**		**Subcontract Price**
i) Upstate Labs	Analytical Services		$7,679
ii) CRA	Data Validation		$1,590
iii) Aztech	Geoprobe		$17,897
iv) Crawford	Lab - dye testing		$19,168
v) Earth Data Northeast	Dye Injection		$3,100
vi) Advanced Geological	Geophysical Survey		$3,800
vii) Inovative Recycling Technologies Inc	IDW		$18,440
B) Total Unit Price Subcontracts		$71,674	
5) Subcontract Management Fee		$2,775	
6) Total Subcontract Costs (lines 4A + 4B + 5)			$74,449
7) Fixed Fee (Schedule 2.10(h))			$18,981
8) Total Work Assignment Price (Lines 1 + 2 + 3 + 6 + 7)			$396,484

Engineer/Contract # D006131
Project Name Pall Corporation
Work Assignment No. 4

Date Prepared: _____

Schedule 2.11(b)
Direct Labor Hours Budgeted

Labor Classification	*IX*		*VIII*		*VII*		*VI*		*V*		*IV*		*III*		*II*		*I*		*Tech. Support*		*Admin Support*		*Total No. of Direct Labor Hours and Costs Budgeted*	
Year 2009	$66.26		$60.35		$52.90		$46.67		$39.36		$33.38		$29.07		$25.92		$21.75	$21.45	$21.45		$21.45			
Description	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
Task 1 - Work Plan Development and Project Meetings																								
Task 1.1 Work Plan Development - Site Visit	1	$66	2	$121	8	$423	60	$2,800	0	$0	20	$668	20	$581	0	$0	0	$0	0	$0	4	$86	115	$4,745
Task 1.2 Background Information Review	1	$66	4	$241	50	$2,645	66	$3,080	32	$1,260	48	$1,602	65	$1,890	0	$0	0	$0	0	$0	8	$172	274	$10,956
Task Subtotals	**2**	**$133**	**6**	**$362**	**58**	**$3,068**	**126**	**$5,880**	**32**	**$1,260**	**68**	**$2,270**	**85**	**$2,471**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**12**	**$257**	**389**	**$15,701**
Task 2 - Pre-Design Sampling & Testing																								
Task 2.1 Groundwater Measurement and Sampling	0	$0	0	$0	4	$212	8	$373	0	$0	40	$1,335	40	$1,163	0	$0	0	$0	0	$0	2	$43	94	$3,126
Task 2.2 Supplemental Soil Boring Investigation	0	$0	0	$0	4	$212	8	$373	0	$0	100	$3,338	20	$581	0	$0	0	$0	0	$0	2	$43	134	$4,547
Task 2.3 Review of Existing Hydraulic Data	0	$0	4	$241	4	$212	8	$373	0	$0	20	$668	40	$1,163	0	$0	0	$0	0	$0	2	$43	78	$2,700
Task 2.4 Hydraulic Testing	0	$0	0	$0	4	$212	14	$653	0	$0	72	$2,403	72	$2,093	0	$0	0	$0	0	$0	2	$43	164	$5,404
Task 2.5 Tracer Testing	0	$0	0	$0	20	$1,058	20	$933	26	$1,023	10	$334	256	$7,442	0	$0	0	$0	0	$0	2	$43	334	$10,833
Task 2.6 Supplemental Report	0	$0	2	$121	24	$1,270	40	$1,867	0	$0	115	$3,839	32	$930	0	$0	0	$0	0	$0	8	$172	229	$8,369
Task Subtotals	**0**	**$0**	**6**	**$362**	**60**	**$3,174**	**98**	**$4,574**	**26**	**$1,023**	**357**	**$11,917**	**460**	**$13,372**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**8**	**$172**	**18**	**$386**	**1033**	**$34,980**
Task 3 - Site Conceptual Model																								
Task 3.1 Conceptual Model Development	1	$66	2	$121	40	$2,116	55	$2,567	0	$0	60	$2,003	30	$872	0	$0	0	$0	16	$343	4	$86	208	$8,174
Task 3.2 Comparison & Selection of Remedial Alternative	0	$0	2	$121	60	$3,174	62	$2,894	0	$0	48	$1,602	32	$930	0	$0	0	$0	12	$257	8	$172	224	$9,150
Task Subtotals	**1**	**$66**	**4**	**$241**	**100**	**$5,290**	**117**	**$5,460**	**0**	**$0**	**108**	**$3,605**	**62**	**$1,802**	**0**	**$0**	**0**	**$0**	**28**	**$601**	**12**	**$257**	**432**	**$17,323**
Task 4 - Remedial Design																								
Task 4.1 Preliminary Design (30%)	2	$133	16	$966	24	$1,270	32	$1,493	0	$0	40	$1,335	80	$2,326	0	$0	0	$0	24	$515	4	$86	222	$8,123
Task 4.2 Intermediate Design (60%)	1	$66	8	$483	16	$846	40	$1,867	16	$630	100	$3,338	120	$3,488	0	$0	0	$0	24	$515	8	$172	333	$11,405
Task 4.3 Final Design (100%)	2	$133	8	$483	8	$423	16	$747	0	$0	32	$1,068	72	$2,093	0	$0	0	$0	2	$43	2	$43	142	$5,032
Task 4.4 Bidding Assistance	0	$0	0	$0	0	$0	24	$1,120	0	$0	30	$1,001	60	$1,744	0	$0	0	$0	0	$0	4	$86	118	$3,951
Task 4.5 Construction Cost Estimate	1	$66	2	$121	64	$3,386	8	$373	0	$0	8	$267	8	$233	0	$0	0	$0	8	$172	4	$86	103	$4,703
Task Subtotals	**6**	**$398**	**34**	**$2,052**	**112**	**$5,925**	**120**	**$5,600**	**16**	**$630**	**210**	**$7,010**	**340**	**$9,884**	**0**	**$0**	**0**	**$0**	**58**	**$1,244**	**22**	**$472**	**918**	**$33,214**
Total Hours	9		50		330		461		74		743		947		0		0		94		64		2772	
Total Direct Labor Cost ($)		$596		$3,018		$17,457		$21,515		$2,913		$24,801		$27,529		$0		$0		$2,016		$1,373		$101,218

Engineer/Contract D006131
Project Name Pall Corporation
Work Assignment No. 4

Date Prepared: _____

Schedule 2.11(b-1)
Direct Administrative Labor Hours Budgeted

Labor Classification	*IX*	*VIII*	*VII*	*VI*	*V*	*IV*	*III*	*II*	*I*	*Tech. Support*	*Admin. Support*	*Total No. of Direct Labor Hrs.*
Task 1 Work Plan Development/Information Review/Site Visit	1	2	1	2	0	0	0	0	0	0	12	18
Task 2 Pre-Design Sampling & Analysis	0	1	1	2	0	0	0	0	0	0	18	22
Task 3 Site Conceptual Model	1	2	1	2	0	0	0	0	0	0	12	18
Task 4 Remedial Design	3	4	1	2	0	0	0	0	0	0	22	32
TOTAL HOURS	5	9	4	8	0	0	0	0	0	0	64	90

Contract/Project administrative hours would include (subject to contract allowability) but not necessarily be limited to the following activities:

1) Work Plan Budget Development
   > Conflict of Interest Check
   > Budget schedules & supporting documentation
2) Review work assignment (WA) progress
   > Conduct progress reviews
   > Prepare monthly project report
   > Update WA progress schedule
   > Prepare M/WBE Utilization Report
3) Contractor Application for Payment (CAP)
   > Oversee and prepare monthly CAP
4) Program Management
   > Prepare monthly cost control report
   > Cost control reviews
<> Staffing Plans
   >Manage subcontracts
   > NSPE list update
   > Equipment inventory
5) Miscellaneous
   > Conduct Health and Safety Reviews
   > Word processing and graphic artists
   > Report editing

Contract/Project Administration hours would **not** include:
1) QA/QC reviews
2) Techincal oversight by management
3) Develop subcontracts
4) Work plan development
5) Review of deliverables

Schedule 2.11 (c)

Direct Non-Salary Costs
Work Assignment Number **D006131-4 - Pall Corporation**

	Item	Max. Reimbursement * Rate (Specify Unit)	Est. No. of Units	Total Estimated Cost
A)	Other			
	1) Mailings/FedEx	LS	1	$3,500.00
	2) Outside Printing	LS	1	$7,500.00
B)	Miscellaneous			
	1) Meals (per day)	$64.00	40	$2,560.00
	2) Lodging (per day)	$162.00	40	$6,480.00
	3) Mileage (per mile)	$0.550	10000	$5,500.00
	4) LVE (per manhour)	$1.00	640	$640.00
	5) PPE (Level D per day)	$15.00	80	$1,200.00
			Total Direct Non-Salary Costs	$27,380.00

Schedule 2.11(d) 3

Maximum Reimbursement Rate for Vendor Rented Equipment

Item	**Unite Rate**	**Est. Usage (weeks)**	**Est. Rental Cost ($) (Col. 2 x 3)**
PID (per week)	$105	4	$420
YSI meter	$500	1	$500
Peristalic Pump/low flow pump (2)	$200	2	$400
Water Level Meter	$50	4	$200
CGI	$75	4	$300
Generator	$100	2	$200
Pressure Transducers (6 units for two weeks)	$125	12	$1,500
Logger programming device (rugged reader)	$100	1	$100
Submersible pump for Hydraulic testing	$160	1	$160
Barometric presssure transducer	$60	1	$60
Water meter (flow)	$30	1	$30
		TOTAL:	**$3,870**

* Reimbursement will be made at the Maximum Reimbursement rate or the actual rental rate, whichever is less.

Work Assignment No. D006131-4

Schedule 2.11(d) 5

Consumable Supplies

Item	Estimated Quantity	Unit Cost ($)	Total Budgeted Cost (Col. 2 x3) ($)
Poly Tubing (feet)	1000	$0.50	$500.00
Disposable Bailers (2 cases - 24 per case)	2	$70.00	$140.00
XXXXXXXXXXXXXXX	0	$0.00	$0.00
		TOTAL	**$640.00**

Schedule 2.11 (f)
Pall Corporation
Unit Price Subcontracts
Work Assignment Number D006131-4

Name of Subcontractor	Services to be Performed	Subcontract Price	Subcontractor Fee
Aztech Technologies Inc.	**Geoprobe Services**	**$17,897**	895

Item/Description	Quantity	Units	Unit Price	Total
Mob/Demob	10	days	$2,725.00	$2,725.00
Senior Technician/Driller		per hour		incl
Technician		per hour		incl
Permits		LS		n/a
Rig Mileage Rate		per mile		incl
Per Diem Rate		per day		incl
Prevailing Wage Upcharge		per day		n/a
Support Truck Mileage Rate		per mile		n/a
Utility Clearance		LS		incl
Drill Rig and Crew				
Track Drill Rig & Crew (1 man crew)	10	per day	$1,050.00	10500
Overtime Rate		per hour	$135.00	
Soil Sampling & Temporary Monitoring Wells				
standard Macro Core Soil Samples with Acetate Liners	180	each	$6.00	1080
1" Sch40 PVC Riser		per foot	--	
1" Sch40 PVC 010 Slot Screen to be pulled up in 10-foot increments for groundwater profiling		per foot	--	
1" PVC Cap		each	--	
Sand and Bentonite Grouting of hole to ground surface	720	per foot	$1.50	1080
Groundwater Sample	0	each	$5.00	0
Disposable points for sampling, if required	0	each	$5.00	0
Soil Vapor Point Installation				
Shallow Soil Vapor Point Installation (0-8')*	4	each	$83.00	332
Deep Soil Vapor Point Installation (8'-16')*		each		
Miscellaneous				
Decontamination	4	per hour	$80.00	320
Standby Time	2	per hour	$80.00	160
55-Gallon DOT Drum	12	each	$48.00	576
poly tubing	incl	incl		
Subtotal				**$16,773**

8% third year cost increase - as per contract (excludes mob/demob cost)

TOTAL				**$17,897**

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts
Work Assignment Number D006131-4

Name of Subcontractor Upstate
Services to be Performed Laboratory
Subcontract Price $7,679
Management Fee $0

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Groundwater Sampling				
LABORATORY ANALYSIS				
TCL VOCs +Freon 8360B	$60.00	Sample	18	$1,080
Total Organic Carbon (TOC)	$9.45	Sample	12	$113
Dissolved Organic Carbon	$9.45	Sample	12	$113
Chemical Oxygen Demand	$7.10	Sample	12	$85
Biological Oxygen Demand	$7.70	Sample	12	$92
Nitrate	$5.90	Sample	12	$71
Sulfate	$4.75	Sample	12	$57
Phosphate	$7.70	Sample	12	$92
Total Alkalinity	$8.85	Sample	12	$106
Total Iron	$3.55	Sample	12	$43
Priority Pollutant Metals	$65.50	Sample	12	$786
Methane/ethane/ethene	$75.00	Sample	12	$900
			Subtotal	**$3,539**
Soil Sampling				
LABORATORY ANALYSIS				
TCL VOCs +Freon 8360B	$60.00	Sample	48	$2,880
Total Organic Carbon (TOC)	$10.05	Sample	6	$60
Priority Pollutant Metals	$74.95	Sample	6	$450
			Subtotal	**$3,390**
Task 2C - RCRA Characteristics				
SAMPLING EQUIPMENT				
LABORATORY ANALYSIS				
RCRA Characteristics	$375.00	Sample	2	$750
			Subtotal	**$750**
			Subtotal-Subcontract Price	**$7,679**
			Subcontract Management Fee*	**$0**
			TOTAL	**$7,679**

* A subcontract management fee of 5% has been included for W/MBE subcontracts.

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts - Tracer Testing
Work Assignment Number D006131-4

Name of Subcontractor Crawford
Services to be Performed Laboratory - Tracer Testing
Subcontract Price $19,168
Management Fee $958

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Dye Tracer Study				
LABORATORY ANALYSIS				
Provide Dye - fluorescein	$30.00	pound	25	$750
Provide Dye - eosine	$40.00	pound	35	$1,400
Background analysis - charcoal	$45.00	sample	30	$1,350
Background analysis - water	$43.50	sample	6	$261
Test samples - charcoal	$25.00	sample	412	$10,300
Test samples - water	$18.50	sample	83	$1,536
Dye Receptors	$4.50	sample	442	$1,989
grab sample vials	$1.00	sample	442	$442
Charcoal Blanks	$4.00	sample	30	$120
Charcoal Blanks Analysis	$25.00	sample	30	$750
Shipping Dye mixed with water	$240.00	each	1	$240
Shipping Supplies	$30.00	each	1	$30
			Subtotal	**19,168**
			Subtotal-Subcontract Price	**$19,168**
			Subcontract Management Fee*	**$958**
			TOTAL	**$20,126**

* A subcontract management fee of 5% has been included for subcontractors over $10,000.

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts
Work Assignment Number D006131-4

Name of Subcontractor CRA
Services to be Performed Data Validation
Subcontract Price $1,590
Management Fee $0

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Groundwater Sampling				
LABORATORY ANALYSIS				
TCL VOCs +Freon 8360B	$10.00	Sample	18	$180
Total Organic Carbon (TOC)	$5.00	Sample	12	$60
Dissolved Organic Carbon	$5.00	Sample	12	$60
Chemical Oxygen Demand	$5.00	Sample	12	$60
Biological Oxygen Demand	$5.00	Sample	12	$60
Nitrate	$5.00	Sample	12	$60
Sulfate	$5.00	Sample	12	$60
Phosphate	$5.00	Sample	12	$60
Total Alkalinity	$5.00	Sample	12	$60
Total Iron	$5.00	Sample	12	$60
Priority Pollutant Metals	$10.00	Sample	12	$120
Methane/ethane/ethene	$9.00	Sample	12	$108
			Subtotal	**$948**
Soil Sampling				
LABORATORY ANALYSIS				
TCL VOCs +Freon 8360B	$10.00	Sample	48	$480
Total Organic Carbon (TOC)	$7.00	Sample	6	$42
Priority Pollutant Metals	$10.00	Sample	6	$60
			Subtotal	**$582**
Task 2C - RCRA Characteristics				
SAMPLING EQUIPMENT				
LABORATORY ANALYSIS				
RCRA Characteristics	$30.00	Sample	2	$60
			Subtotal	**$60**
			Subtotal-Subcontract Price	**$1,590**
			Subcontract Management Fee*	**$0**
			TOTAL	**$1,590**

* A subcontract management fee of 5% has been included for W/MBE subcontracts.

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts
Work Assignment Number D-006131-4

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
Earth Data Northeast	Tracer Test Injection	$3,100.00	$0.00

Item	Unit Rate	Units	Est. No. of Units	Total Est. Cost
Mobilization/Demobilization	$1,200	LS	1	$1,200.00
Packer Installation and Removal - 2	$200	hour	8	$1,600.00
Per Diem	$300	LS	1	$300.00
		Subtotal		**$3,100.00**

Subtotal-Subcontract Price	**$3,100.00**
Subcontract Management Fee*	**$0.00**
TOTAL	**$3,100.00**

*** A subcontract management fee of 5% has been included for subcontrac**

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts
Work Assignment Number D-006131-4

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
Advanced Geological Services	Geophysical Survey	$3,800.00	$0.00

Item	Unit Rate	Units	Est. No. of Units	Total Est. Cost
Geophysical Survey Services - 2 days	$1,900	day	2	$3,800.00
			Subtotal	**$3,800.00**
Subtotal-Subcontract Price				**$3,800.00**
Subcontract Management Fee*				**$0.00**
TOTAL				**$3,800.00**

*** A subcontract management fee of 5% has been included for subcontr**

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts
Work Assignment Number D-006131-4

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
Inovative Recycling Technologies, Inc	IDW Removal	$18,440.00	$922.00

Item	Unit Rate	Units	Est. No. of Units	Total Est. Cost
Two 4,000 Gallon Tanks for Hydraulic Testing				
Mobilization	$825	Each	2	$1,650.00
Daily Rental	$27	per day	120	$3,240.00
Tank Cleaning	$900	Each	2	$1,800.00
Demobilization	$825	Each	2	$1,650.00
Disposal Hazardous and Non-Hazardous Waste - Soil, water & plastic debris				
Non-hazardous	$125	Per Drum	10	$1,250.00
Hazardous	$425	Per Drum	2	$850.00
Treatment/Disposal of Water From Tanks				
3,000 gallons Non-Hazardous	1750	LS	1	$1,750.00
3,000 gallonsHazardous	6250	LS	1	$6,250.00
			Subtotal	**$18,440.00**

Subtotal-Subcontract Price	**$18,440.00**
Subcontract Management Fee*	**$922.00**
TOTAL	**$19,362.00**

*** A subcontract management fee of 5% has been included for subcontracts over $10,000.**

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D006131
Project Name Pall Corporation
Work Assignment No. D006131-4
Task #/Name 2.11 (g) Summary
Complete 0%

Date Prepared 1/15/09
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0	$0	$0	$101,218	$0
2. Indirect Costs - 167.9%	$0	$0	$0	$0	$0	$0	$169,945	$0
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0	$0	$0	$271,163	$0
4. Travel	$0	$0	$0	$0	$0	$0	$14,540	$0
5. Other Non-Salary Costs	$0	$0	$0	$0	$0	$0	$17,350	$0
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0	$0	$0	$31,890	$0
7. Subcontractors	$0	$0	$0	$0	$0	$0	$71,674	$0
7a. Subcontract Mgt. Fee	$0	$0	$0	$0	$0	$0	$2,775	$0
8. Total Work Assignment Cost	$0	$0	$0	$0	$0	$0	$377,502	$0
9. Fixed Fee	$0	$0	$0	$0	$0	$0	$18,981	$0
10. Total Work Assignment Price	$0	$0	$0	$0	$0	$0	$396,484	$0

Project Manager John P. Blaum, P.E.

Date 1/15/09

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D006131
Project Name Pall Corporation
Work Assignment No. D006131-4
Task #/Name Task 1 - Work Plan Development/Information Review-Site Visit
Complete 0%

Date Prepared 1/15/09
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0	$0	$0	$15,701	$0
2. Indirect Costs - '167.9%	$0	$0	$0	$0	$0	$0	$26,362	$0
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0	$0	$0	$42,063	$0
4. Travel	$0	$0	$0	$0	$0	$0	$500	$0
5. Other Non-Salary Costs	$0	$0	$0	$0	$0	$0	$500	$0
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0	$0	$0	$1,000	$0
7. Subcontractors	$0	$0	$0	$0	$0	$0	$0	$0
7a. Subcontract Mgt. Fee	$0	$0	$0	$0	$0	$0	$0	$0
8. Total Work Assignment Cost	$0	$0	$0	$0	$0	$0	$43,063	$0
9. Fixed Fee	$0	$0	$0	$0	$0	$0	$2,944	$0
10. Total Work Assignment Price	$0	$0	$0	$0	$0	$0	$46,007	$0

Project Manager John P. Blaum, P.E.

Date 1/15/09

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D006131
Project Name Pall Corporation
Work Assignment No. D006131-4
Task #/Name Task 2 - Pre-Design Sampling & Analysis
Complete 0%

Date Prepared 1/15/09
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0	$0	$0	$34,980	$0
2. Indirect Costs 167.9%	$0	$0	$0	$0	$0	$0	$58,731	$0
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0	$0	$0	$93,711	$0
4. Travel	$0	$0	$0	$0	$0	$0	$13,540	$0
5. Other Non-Salary Costs	$0	$0	$0	$0	$0	$0	$9,100	$0
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0	$0	$0	$22,640	$0
7. Subcontractors	$0	$0	$0	$0	$0	$0	$71,674	$0
7a. Subcontract Mgt. Fee	$0	$0	$0	$0	$0	$0	$2,775	$0
8. Total Work Assignment Cost	$0	$0	$0	$0	$0	$0	$190,800	$0
9. Fixed Fee	$0	$0	$0	$0	$0	$0	$6,560	$0
10. Total Work Assignment Price	$0	$0	$0	$0	$0	$0	$197,359	$0

Project Manager John P. Blaum, P.E.

Date 1/15/09

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D006131
Project Name Pall Corporation
Work Assignment No. D006131-4
Task #/Name Task 3 - Site Conceptual Model
Complete 0%

Date Prepared 1/15/09
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0	$0	$0	$17,323	$0
2. Indirect Costs 167.9%	$0	$0	$0	$0	$0	$0	$29,086	$0
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0	$0	$0	$46,409	$0
4. Travel	$0	$0	$0	$0	$0	$0	$250	$0
5. Other Non-Salary Costs	$0	$0	$0	$0	$0	$0	$250	$0
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0	$0	$0	$500	$0
7. Subcontractors	$0	$0	$0	$0	$0	$0	$0	$0
7a. Subcontract Mgt. Fee	$0	$0	$0	$0	$0	$0	$0	$0
8. Total Work Assignment Cost	$0	$0	$0	$0	$0	$0	$46,909	$0
9. Fixed Fee	$0	$0	$0	$0	$0	$0	$3,249	$0
10. Total Work Assignment Price	$0	$0	$0	$0	$0	$0	$50,158	$0

Project Manager John P. Blaum, P.E.

Date 1/15/09

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D006131
Project Name Pall Corporation
Work Assignment No. D006131-4
Task #/Name Task 4 - Remedial Design
Complete 0%

Date Prepared 1/15/09
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0	$0	$0	$33,214	$0
2. Indirect Costs 167.9%	$0	$0	$0	$0	$0	$0	$55,766	$0
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0	$0	$0	$88,980	$0
4. Travel	$0	$0	$0	$0	$0	$0	$250	$0
5. Other Non-Salary Costs	$0	$0	$0	$0	$0	$0	$7,500	$0
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0	$0	$0	$7,750	$0
7. Subcontractors	$0	$0	$0	$0	$0	$0	$0	$0
7a. Subcontract Mgt. Fee	$0	$0	$0	$0	$0	$0	$0	$0
8. Total Work Assignment Cost	$0	$0	$0	$0	$0	$0	$96,730	$0
9. Fixed Fee	$0	$0	$0	$0	$0	$0	$6,229	$0
10. Total Work Assignment Price	$0	$0	$0	$0	$0	$0	$102,959	$0

Project Manager John P. Blaum, P.E.

Date 1/15/09

Schedule 2.11 (g) - Supplemental

Cost Control Report for Subcontracts

Engineer Camp Dresser & McKee
Contract No. D006131
Project Name Pall Corporation
Work Assignment No. D006131-4

Page 1 of 1
Date Prepared 1/15/09
Billing Period
Invoice No.

Subcontract Name	*A* *Subcontract Costs Claimed this Application Inc. Resubmittals*	*B* *Subcontract Costs Approved for Payment on Previous Applications*	*C* *Total Subcontract Costs to Date (A plus B)*	*D* *Subcontract Approved Budget*	*E* *Management Fee Budget*	*F* *Management Fee Paid*	*G* *Total Costs to Date (C plus F)*
1. Upstate Labs	$0	$0	$0	$7,679	$0	$0	$0
2. Conestoga-Rover Associates	$0	$0	$0	$1,590	$0	$0	$0
3. Aztech	$0	$0	$0	$17,897	$895	$0	$0
4. Crawford	$0	$0	$0	$19,168	$958	$0	$0
5. Earth Data Northeast	$0	$0	$0	$3,100	$0	$0	$0
6. Advanced Geological Services	$0	$0	$0	$3,800	$0	$0	$0
7. Inovative Recycling Technologies Inc	$0	$0	$0	$18,440	$922	$0	$0
TOTALS	$0	$0	$0	$71,674	$2,775	$0	$0

Project Manager John P. Blaum, P.E.

Date 1/15/2009

NOTES:

1) Costs listed in Columns A, B, C & D do not include any management fee costs.
2) Management fee is applicable to only properly procured, satisfactorily completed, unit price subcontracts over $10,000.
3) Line 11, Cloumn G should equal Line 7 (Subcontractors), Column D of Summary Cost Control Report.

Schedule 2.11(h)
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/Contract # D006131
Project Name Pall Corporation
Work Assignment No. D006131-4

Date Prepare 1/15/09
Billing Period
Invoice No.

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*	*Tech Exp/Est*	*Admin.*	*Total No. of Direct Labor Hrs. Exp/Est*
Task 1	0 / 2	0 / 6	0 / 58	0 / 126	0 / 32	0 / 68	0 / 85	0 / 0	0 / 0	0 / 0	0 / 12	0 / 389
Task 2	0 / 0	0 / 6	0 / 60	0 / 98	0 / 26	0 / 357	0 / 460	0 / 0	0 / 0	0 / 8	0 / 18	0 / 1033
Task 3	0 / 1	0 / 4	0 / 100	0 / 117	0 / 0	0 / 108	0 / 62	0 / 0	0 / 0	0 / 28	0 / 12	0 / 432
Task 4	0 / 6	0 / 34	0 / 112	0 / 120	0 / 16	0 / 210	0 / 340	0 / 0	0 / 0	0 / 58	0 / 22	0 / 918
Total Hours	0 / 9	0 / 50	0 / 330	0 / 461	0 / 74	0 / 743	0 / 947	0 / 0	0 / 0	0 / 94	0 / 64	0 / 2772

* Expended/Estimated

Appendix C
Pricing Backup

Pall Corporation - Geophysical Services Subcontractors

Company	Contact	Email	Phone	M/WBE	Status	Quote ($)
Advanced Geologic Services	Robert Mundt	bmundt@advancedgeo.com	O: 610.722.5500	No	Received Full Quote	$1900 (1 field day; letter report - no maps)
RSI	Doria Kutrubes	doria@radar-solutions.com	O: 781.891.4492	WBE/DBE	Received Full Quote	$3275 (1 field day; maps provided)
NAEVA Geophysics, Inc.	Ronnie Brown	RBrown@naevageophysics.com	O: 845-268.1800	No	Received Full Quote	$4042 (1 field day; no report or maps)
Enviroscan, Inc	Felicia Bechtel	email@enviroscan.com	O: 717.396.8922	No	Received Full Quote	$4550 (2 field days; no report or maps)

1800 01 3600 2 days

ADVANCED GEOLOGICAL SERVICES

Mystic Lane
Malvern, PA 19355
610-722-5500
Fax (610) 722-0250

PROPOSAL FOR LIMITED GEOPHYSICAL SERVICES

Proposal Number: AGS-09-108-1 Date: January 14, 2009

Client: Camp, Dresser & McKee, Inc.			Telephone: 732-590-4645
Address: Raritan Plaza1, Raritan Center			Fax: 732-225-7851
City: Edison	State: NJ	Zip: 08818	Contact: Ricky A. Chenenko

Site Location: Pall Corporation Site, Glen Cove, NY

Site Description: Three grid areas, paved, and one area is partly inside a building

Objectives: Clear 21 proposed soil boring locations of buried utilities and other potential drilling hazards.

Method Proposed:	☐ Seismic refraction/reflection	☐ Borehole:
☒ Ground penetrating radar (GPR)	☐ Electrical resistivity	☒ Hand held EM metal detector (Fisher m-scope):
☒ TDEM metal detector (EM61)	☐ Gravity	
☐ Terrain conductivity (EM31)	☐ Magnetic	
☒ RF pipe locator	☐ VLF	

1.0 SCOPE OF WORK

Advanced Geological Services (AGS) is pleased to provide Camp, Dresser & McKee, Inc. (the "Client") with limited geophysical surveying services (the "Investigation"). Based on our current understanding, the objectives of the Investigation are to: clear 21 proposed soil borings of identifiable buried utilities and other potential drilling hazards within a 10 foot radius.

To achieve this objective, an integrated geophysical investigation is proposed using ground penetrating radar (GPR), Time Domain Electromagnetic metal detector (EM61), and Radio Frequency (RF) utility locating methods. A hand held EM metal detector (m-scope) will also be available on site to assist with the investigation should it be needed. All identified utilities will be clearly marked on the ground surface with spray paint.

2.0 PROPOSED FIELD METHODS

2.1. TIME DOMAIN ELECTROMAGNETIC METAL DETECTOR (EM61)

Buried metal objects such as USTs and utilities can be effectively located using a Geonics EM61 High-Sensitivity Metal Detector. The EM61 is a time domain electromagnetic (EM) system that can discriminate between conductive soils and metal objects.

The EM61 generates rapid electromagnetic pulses and measures the response of the subsurface between pulses. Secondary EM fields are generated in the ground after each pulse. These fields dissipate rapidly in earth materials but remain for a longer time in buried metal objects. The EM61 measures the prolonged metal response only after the earth response has dissipated.

For this investigation, the survey will be performed in the reconnaissance mode by continuously monitoring the audible signal and digital display on the instrument.

2.2. GROUND PENETRATING RADAR (GPR)

The GPR method uses focused high-frequency electromagnetic pulses to produce a continuous, cross-sectional image of the subsurface. These pulses are rapidly transmitted into the subsurface using an antenna. When the pulses reach a layer or object possessing contrasting electrical properties, part of the energy is reflected back to the surface where it is detected by the antenna. The received signal is sent to a controlling unit where it is processed and displayed in real time to allow in-field interpretations. The data are also digitally recorded for high-resolution computer processing. A continuous cross-sectional image is generated as the antenna is pulled along the ground surface. The system records the continuous image by plotting the two-way travel time of the reflected signal versus distance the antenna traveled along the ground surface. Two-way travel time values are then converted to depth using known velocity functions.

A GSSI SIR-2, or SIR-3000 and a 400 or 200 megahertz (MHz) antenna will be used. The most effective recording window and antenna will be selected after onsite testing to provide the required depth penetration (approximately 10 feet) and subsurface detail. The data will be acquired along orthogonal traverses established over proposed drilling locations.

2.3 RADIO FREQUENCY (RF) PIPE LOCATOR

AGS will use a Radiodetection RD400/PDL2 multi-frequency RF utility locating system to search for and trace utilities. This instrument consists of a receiver/tracer and a remote transmitter that operates at frequencies ranging between 8 kHz and 65 kHz. This utility tracing instrument provides audible and visual feedback to the operator when a utility that is coupled with the transmitted signal is crossed. The transmitter produces a radio-frequency signal in the utility to be traced by either induction coupling or direct hook-up. The receiver output provides measured field strength of the received signal and varies an audible pitch depending upon how far the utility is from the receiver. By carefully adjusting the gain of the receiver, it is possible to determine the location of the utility and to separate it from adjacent utilities. Both the direct hook-up and inductive coupling tracing methods may be used during this investigation. In addition, the receiver can be used in 60 Hz and broad band radio signal passive mode to identify active buried electrical lines and other potential utilities.

3.0 DELIVERABLES

Upon completion of the fieldwork, all data will be returned to the AGS office for analysis, correlation, and final interpretation. The geophysical data collected during this investigation will be archived at the AGS office. AGS will submit a Summary Letter Report of Findings (the "Report") at the conclusion of the Investigation. The Report will include:

- a description of services provided,
- equipment used during the investigation, and
- overall results of the investigation

4.0 SCHEDULE

AGS anticipates that the above-described fieldwork will be completed in one (1) day. Like all fieldwork, AGS' performance of the Investigation could be delayed or interrupted by unfavorable weather conditions or other

causes not under the control of AGS. In such event, AGS will attempt to reschedule the Projected Start Date or continue with the Investigation as soon as possible taking into consideration other scheduled work or subsequent force majeure events.

AGS will undertake the above-described work, subject to the following terms, including the warranty and disclaimer provisions contained therein, and the accompanying General Terms & Conditions. Please read them carefully before authorizing AGS to proceed.

5.0 PROPOSED COSTS

AGS proposes to perform the Investigation, in accordance with the terms and conditions herein, for the daily rate of **$1,900.00** (the "Proposed Cost"). Unless otherwise noted below, the Proposed Cost is all inclusive, incorporating labor and materials, mobilization and demobilization, report preparation, mileage, tolls, etc. Costs of express mail service, if necessary, will be in addition to the proposed cost, no mark-up will be added.

Additional field days, if necessary, and authorized, will be charged at a daily rate of One Thousand Nine Hundred Dollars ($1,900.00). Additional reporting time will be charged at $85.00 per hour.

Invoices will be issued at the completion of the Investigation payable within 30 days from the date of the invoice.

The above Proposed Cost is based on the following assumptions and exceptions:

- All necessary site access will be secured by the Client.
- The investigation area(s) will be free from parked cars or other features that could limit or interfere with the collection of geophysical data.

6.0 GENERAL TERMS AND CONDITIONS

Like all fieldwork, AGS' performance of the Investigation could be delayed or interrupted by unfavorable weather conditions or other causes not under the control of AGS. In such event, AGS will attempt to reschedule the Projected Start Date or continue with the Investigation as soon as possible taking into consideration AGS' other scheduled work or subsequent force majeure events. The fieldwork will consist of collecting data/information using the appropriate geophysical equipment by AGS' on-site Project Manager.

AGS warrants that its Investigation will be performed in accordance with the ordinary standard of care for similar services at the time and in the place where such services are rendered. Except as specifically provided in this paragraph no other warranty or representation, either express or implied, oral or written, is included or intended in this proposal, the field survey report or otherwise respecting the Investigation. In particular, depending upon the physical and geological characteristics of the site, as well as a number of other factors, underground items or features of the type described on page one of this Proposal and contract and the precise size, location and other characteristics thereof, cannot necessarily be accurately detected or described using ground penetrating radar, magnetic and electromagnetic detection devices or other devices and methods. Therefore, the investigation may not necessarily be effective in locating and describing such items and characteristics.

In order for AGS to undertake and complete the work in a safe and efficient manner, Client shall:

(i). make whatever arrangements are necessary to secure AGS lawful access to the Site at the date and time scheduled;

(ii). provide AGS with a reasonable and unrestricted manner of ingress and egress to the site;

(iii). provide adequate notice of any hazardous or dangerous conditions;

(iv). assure that the site is free of debris and other obstructions, including dense vegetation that could hinder the conduct or progress of the Investigation;

(v). provide AGS personnel, in advance of their arrival at the site, with adequate notice of any applicable work rules, health and safety plans for the site, and relevant information regarding the presence at or below the site of any hazardous substances or other pollutants.

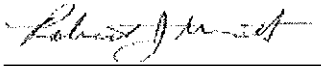
AGS reserves the right to discontinue the Investigation and withdraw from the site if such requirements are not met, or if performance of the Investigation would, in AGS' judgment, pose an unreasonable risk to AGS personnel or equipment.

This proposal is subject to the General Terms & Conditions contained herein. The pricing quoted will remain in effect for a period of sixty (60) days from the date of this quotation. After 60 days, AGS reserves the right to revise the quotation. This proposal is based on laws currently in effect. Should any laws change, AGS reserves the right to amend this proposal.

Your acceptance and authorization to proceed with this project may be accomplished by signing this proposal. The enclosed copy is for your records. Please enclose a copy of the most recent site plan drawing concerning the area of investigation, if available at this time. We appreciate the opportunity to provide you with our geophysical investigation services. If you have any questions, please feel free to contact us at any time.

Respectfully submitted,

ADVANCED GEOLOGICAL SERVICES, INC.



President

Robert J. Mundt — Title

Accepted and Authorized by Client:

_____

Name — Date

_____

Print Name & Title:

RSI *Geophysics for the 21st Century*

Radar Solutions International™

3275
1 day

January 15, 2009

Mr. Rick Chenenko
Camp Dresser & McKee
Raritan Plaza I, Raritan Center
Edison, NJ 08818

Via Email: ChenenkoRA@cdm.com

Re: Borehole Clearance Services
GPR and EM Induction Investigations
Borehole Clearance Services
Glen Cove, Nassau County, New York

Dear Rick:

Radar Solutions International (RSI), a WBE/DBE Certified firm based in Waltham, Massachusetts, is pleased to submit this proposal for a geophysical survey at the above-referenced site. The goal of the survey is to:

1. Clear a 20 foot radius around 21 proposed boring/well locations, and mark real-time with spray paint and flags the location of buried utilities and other features found. We assume that the areas of investigation will be clear of obstructions and vehicles, and the proposed locations of the 21 borings will be clearly marked prior to the commencement of field activities. RSI proposes using a combination of ground penetrating radar (GPR) and EM Induction (i.e. a time-domain EM inductive method) to clear each proposed boring location.

SCOPE OF WORK

A 20 by 20 foot survey grid will first be established around each proposed boring location. RSI personnel will then use a sophisticated pipe and cable locator (an EM induction tool) to trace out utilities to which we have direct access at a nearby manhole or gate box and which may come within 15 feet of the proposed locations. RSI will also sweep the areas for live, 60-cycle energy, which would indicate nearby electrical or possibly other utilities with a 60-cycle tracer wire.

The EM induction tool can operate in 4 different modes: ***Receiver only mode***, detecting 60 cycle power (or harmonics thereof), ***Direct Contact/Clamp-on*** mode, where the transmitter hooks the positive lead directly to the pipe or cable while the negative lead is grounded, ***Direct-coupled/ Inductive mode***, where an inductive clamp is place around the pipe or cable, and ***Remote Beacon mode***, where a transponding beacon is placed on a fiberglass rodder and threaded through non-conductive pipes and traced from the surface using a receiving antenna.

Mode #1 (***Receiver only mode***) only detects active electric lines. The disadvantage of this mode is that if the rebar matt is not grounded or the soil is conductive, false readings can occur, especially if

51 Riverview Avenue, Waltham, MA 02453
Telephone: (781) 891-4492 / Fax: (781) 736-0004
http://www.radar-solutions.com

the receiver's gains are turned up high. Also, if the electrical cable is located within a heavily reinforced concrete duct bank, it may be shielded, and hence, not detec table.

Mode #2 (***Direct Contact/Clamp-on***) the best method for directly tracing pipes, although, its success is contingent upon having a good ground and the pipe's outer surface being conductive enough to induce a signal down it. In some instances, such as gas transmission lines, pipe segments are isolated from each other with insulators so that self-potential (i.e. naturally-occurring energy from the earth's field) does not build up along the pipeline. Also, cast iron, especially when rusty, may not transmit a current well. Also, this mode can not be used for PVC and plastic pipes, as they do not transmit current at all.

Mode #3 (Direct-coupled/Inductive mode) is another reliable way of inducing a current down a pipe. This, like Mode #2, relies on the pipe being conducti ve enough to induce a si gnal through it.

Mode #4 (Remote Beacon mode) can not be used for iron, steel, and otherwise conductive pipes. It can only be used for non-conducting pipes, such as vitrified clay, asbestos concrete, PVC, plastic, and occasionally reinforced concrete. This method only works, however, if there is direct access to one end of the utili ty, and if it is located no more than 8 feet below gr ade.

Ground Penetrating Radar (GPR) will be used in conjunction with EM induction to detect utilities and other obstructions within a 10 by 10 foot area around each proposed boring location. The GPR method will provide a cross-section of the ground wherever the radar antenna is moved and give the operator an estimation of utility depth. A GSSI SIR-3000 or SIR-2000 Portable Digital Radar System with a 400 megahertz (MHz) antenna will be used to collect GPR data along orthogonal grid lines, spaced 2 feet apart. RSI will provide a real-time evaluation of the GPR data, inferring the trend of a utility by aligning hyperbolic reflections associated with utilities from line to line. GPR Data will be displayed on a color monitor and simultaneously recorded on the computer's hard drive for later review and processing at RSI's office, if needed. Please note, the GPR methodology works extremely well for metallic utilities, and generally well for reinforced concrete, asbestos concrete and vitrified clay pipes, but not well for plastic or PVC pipes. Fiberoptic utilities, if installed without a 60-Hz tracer wire, will be difficult to detect with both methods.

LIMITATIONS

All remote sensing methods have their limitations and no method is 100% accurate. While the GPR typically provides a high resolution of the subsurface, there are some limitations to the method. The depth of investigation of the GPR is site-specific. Generally, the more conductive a soil, the less the investigative depth of the GPR. The 400 MHz antenna, typically used for utility surveys because it provides good resolution, obtains investigative depths of 5 to 8 feet, depending upon the location of watertable, conductivity of the soil, salinity of the groundwater, and presence of residual road salt.

It should also be noted that GPR signal penetration beneath a reinforced concrete slab and brick walks may be limited to approximately 3 to 5 feet; greater investigative depths may be achieved, depending upon the spacing of the rebar and the porosity of the concrete. Also, boulders within the till can appear similar to that of a large diameter pipe. Because different targets can appear similarly on the radar record, RSI obtains data along multiple lines parallel to the inferred trend of the utility.

DELIVERABLES

RSI will paint on the ground and/or flag the location of utilities in the field as they are detected using one or both methods in proximity of each proposed boring location. If an obstruction is detected in the field, RSI personnel will paint the new cleared location for the boring. RSI will also provide maps of the areas of investigation showing the location of interpreted utilities and other possible obstructions

SCHEDULE AND COST

RSI personnel can generally mobilize within 3 business days after receiving written notification to proceed. We anticipate that one geophysicist can survey the areas within approximately 9 hours if they are completely clear of any above-ground obstacles prior to the commencement of field work. **RSI's not-to-exceed cost for the requested survey is $3,275,** inclusive of mobilization/demobilization, equipment, and real-time interpretation, and our final deliverable.

RSI will offer a 5% discount should payment be made within 10 days or CDM opts to pay within 30 days using MasterCard or Visa. RSI will abide by CDM's Subcontractor's Agreement.

INSURANCE

RSI carries $1,000,000 of General Liability insurance, including $1,000,000 for each occurrence, $1,000,000 for personal injury, and a $2,000,000 aggregate. RSI also has an additional $1,000,000 in Professional Liability (E&O), $1,000,000 in automobile insurance, and $1,000,000 Workers Compensation. RSI can provide a Certificate of Insurance at your request.

***

We appreciate the opportunity to propose on this work and welcome the opportunity to work with CDM again in the near future.

Sincerely,
RADAR SOLUTIONS INTERNATIONAL

Doria L Kutrubes

Doria Kutrubes. M.Sc., P.G.
President and Sr. Geophysicist

4042 7 day 2

NAEVA GEOPHYSICS, INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

FACSIMILE TRANSMITTAL SHEET

TO: Mr. Ricky Chenenko	FROM: Ronnie Brown
COMPANY: Camp Dresser & McKee	DATE: 1/14/09
FAX NUMBER: (732) 225 - 7851	TOTAL NO. OF PAGES INCLUDING COVER: 5
PHONE NUMBER: (732) 225 - 7000	RE: Proposal for Geophysical Investigation

☐ URGENT ☑ FOR REVIEW HARD COPY SENT VIA: US MAIL

NOTES/COMMENTS:

50 North Harrison Avenue, Suite 11, Congers, NY 10920
Voice: (845) 268-1800 • Fax: (845) 268-1802

NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

2 Dup

GPR
MAGNETICS
ELECTROMAGNETICS
SEISMICS
RESISTIVITY
UTILITY LOCATION
UXO DETECTION
BOREHOLE CAMERA
STAFF SUPPORT

January 14, 2009

Mr. Ricky A. Chenenko
Camp, Dresser & McKee, Inc.
Raritan Plaza I, Raritan Center
Edison, NJ 08818
(732) 225-7000
(732) 225-7851 Fax

RE: Proposal for Geophysical Investigation

Dear Mr. Chenenko:

NAEVA Geophysics Inc. is pleased to submit for your review the following scope of work and **estimated** costs associated with a geophysical investigation to be conducted at 30 Sea Cliff Avenue in Glen Cove, New York. The purpose of the investigation will be to clear a 10 foot radius around 21 proposed exploratory boring sites (PEBSs) within three areas of concern (AOCs). It is our understanding that the PEBS within each AOC will be spaced 20 feet apart and that two of the PEBS are located within the facility building. We also understand that the AOC will be clear of surface metallic objects such as vehicles and other debris for the duration of the investigation.

Our approach will be to employ an electromagnetic metal-detector, ground penetrating radar (GPR) and utility locating instruments. The metal-detector will be carried over each PEBSs along regularly spaced parallel traverses. Significant metal-detector anomalies will be further investigated with the GPR to attempt to better characterize their sources. It should be noted that the metal-detector cannot be used over reinforced concrete or in the immediate vicinity of above ground metallic objects such as vehicles and chain link fences. In the event that the area of investigation is underlain by reinforced concrete, GPR will be used as the primary investigative tool. However, it should also be noted that reinforced concrete sometimes limits the depth of penetration of GPR and can obscure underlying targets.

Electromagnetic utility-locating instruments will be used to delineate metallic/electrically conductive utilities. Using a transmitter, radio frequency signals will be conducted onto exposed portions of conduits and piping and these signals used to trace the utilities. Alternatively, where there are no convenient exposures, the signals can be induced onto the lines by placing transmitters on the ground above the utilities.

MARYLAND
4707 Benson Ave.
Suite 104
Baltimore
Maryland 21227
(410) 536-7600
(410) 536-7602 Fax

NEW YORK
50 N. Harrison Ave.
Suite 11
Congers
New York 10920
(845) 268-1800
(845) 268-1802 Fax

VIRGINIA
P.O. Box 7325
Charlottesville
Virginia 22906
(434) 978-3187
(434) 973-9791 Fax

Energized electric lines and metallic lines to which electric lines are grounded produce electromagnetic fields that may be detectable at the surface. In addition, buried metallic lines often pick up and radiate background vibrations and commercial radio signals. The area surrounding each PEBSs will be searched for evidence of these passive signals.

To investigate non-metallic utilities such as ceramic or PVC sewers, a radio-frequency signal can be conducted onto a flexible steel antenna inserted into the line. This signal allows the line to be detected at the ground surface by an operator using a specialized receiver. GPR will also be available to aid in the delineation of non-metallic conduits.

Detected utilities will be marked on the ground with paint using the color code established by the American Public Works Association (green for sewer, blue for water, etc.). A report detailing NAEVA's methods and findings and a scaled AutoCAD site map can be prepared at an **additional cost.** If a report and/or map are desired, please notify NAEVA's field personnel upon their arrival on site.

Below are the **estimated** costs for this investigation:

Item	Rate	Cost
12 hours labor (crew of two)	$225/hr	$2700.00
2 hours travel	$210/hr	$420.00
2 hours GPR	$175/hr	$350.00
1 day Per Diem	$452/day	$452.00
Materials		$120.00
	Total Estimate	**$4,042.00**

Considerations

The above estimated costs, are based upon the information provided us, assume smooth and level ground, sparse vegetation, easy vehicle access, and minimal snow cover. Please also note the following considerations.

Investigating Proposed Exploratory Boring Site (PEBSs) and Subsurface Utilities

- It should be understood that the location of subsurface objects, pipes, and utilities is dependent upon the recognition of physical phenomena at the ground surface. These phenomena can be magnetic fields or electromagnetic waves, which are interpreted as representative of subsurface objects. These fields or waves, however, may be attenuated and/or distorted by a number of factors including soil moisture, steel reinforced concrete, and proximity to other surface and subsurface facilities.

In practical terms, NAEVA serves to **reduce** the chances of accidental damage during excavation operations. However, it is important to be aware that, for physical reasons, **not all** underground lines, piping, utilities, and facilities are detectable. Underground

conduits or utilities made of non-metallic or non-electrically conductive materials are usually more difficult to detect than ones made of conducting metals.

- It will be necessary that the area of concern be reasonably clear of surface objects such as automobiles, stored materials, debris and metals.

- We recommend that you mark your PEBSs on the ground and notify the regional "one-call" center to inform them of your intent to drill a minimum of 72 hours prior to excavation. The responsibility to make this call is yours.

Investigations Using Ground Penetrating Radar (GPR)

- GPR is affected by site conditions such as the near-surface soil type, varied ground surface materials, and soil moisture, therefore, the depth of penetration and usefulness of GPR data cannot be known until our arrival on site. If the GPR's depth of penetration is insufficient to yield useful data, then a minimum equipment charge of $100.00 will apply.

Contractual Arrangements

- If NAEVA is awarded this contract and your Company requires a subcontract, please fax a copy of the agreement to:

Mr. Mark Weis, Office Manager
NAEVA Geophysics, Inc.
50 North Harrison Avenue, Suite 11
Congers, NY 10920
(845) 268-1800 (845) 268-1802-fax
mweis@naevageophysics.com

Please allow adequate time for contract negotiation.

Billing

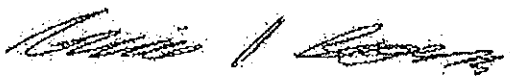
- This estimate does not include standby time, which will be charged at the normal labor rates.

- Unless other arrangements have been made, payment terms are net 30 days. Overdue invoices are subject to a monthly finance charge of 1.5%.

- Unless otherwise notified, this project will be billed on a time and materials basis. If this project must be scheduled during off-hours (weekends or at night) additional charges may apply.

Thank you for the opportunity to submit this proposal. We look forward to working with you soon. Please call me if I may answer any questions.

Sincerely,



Ronnie Brown
Geologist
NAEVA Geophysics, Inc.

ENVIROSCAN, INC.

January 14, 2009

Mr. Ricky Chenenko
CDM
Raritan Plaza I
Raritan Center
Edison, NJ 08818

RE: Geophysical Survey
Utility/Structure Clearance
Approximately 21 Proposed Boring Locations
Pall Corporation Site
Glen Cove, NY
Enviroscan Reference Number 010919

Dear Mr. Chenenko:

Pursuant to our recent telephone conversation, Enviroscan, Inc. is pleased to present the following proposal for a geophysical survey of the above-referenced site. The purpose of the survey is to provide utility/structure clearance at approximately 21 proposed boring locations. It is our understanding that the survey areas are paved (with some inside a building), that they are entirely pedestrian- and vehicle-accessible, and that the areas to be surveyed will be cleared of parked vehicles or major surficial debris (dumpsters, etc.) prior to initiation of the survey. It is also our understanding that the proposed boring locations and survey areas will be identified (by others) prior to initiation of the geophysical survey, and that Enviroscan can proceed from one area to the next without delay. Finally, we understand that all necessary traffic control and site access arrangements will be managed by others. The principles of each technique to be utilized and the specific tasks associated with the scope of work for this project are described below.

Ground penetrating radar (GPR) systems produce cross-sectional images of subsurface features and layers by continuously emitting pulses of radar-frequency energy from a scanning antenna as it is towed along a survey profile. The radar pulses are reflected by interfaces between materials with differing dielectric properties. The reflections return to the antenna and are printed on a strip chart recorder or displayed on a video monitor as a continuous cross section in real time. Since the electrical properties of metallic tanks, pipes, and wastes are distinctly different from soil and backfill materials, metallic targets produce dramatic and characteristic reflections. Fiberglass, plastic, concrete, and terra-cotta targets as well as subsurface voids, rock surfaces, soil type changes and concentrations of many types of non-metallic wastes also produce recognizable, but less dramatic, reflections.

1051 Columbia Avenue • Lancaster, PA 17603 • 717.396.8922 • Fax 717.396.8746 • email@enviroscan.com • www.enviroscan.com

Enviroscan proposes to thoroughly scan a 10-foot by 10-foot area around each boring location (and to an approximate depth of six to ten feet, depending on soil conditions) using either a Geophysical Survey Systems, Inc. (GSSI) Subsurface Interface Radar (SIR)-2 or SIR-2000 GPR digital control unit with a liquid crystal display and an internal hard drive, and a 500 or 200 megaHertz scanning antenna, depending on site conditions. Where suspected utilities or other anomalous targets are detected, numerous more closely spaced and variously oriented profiles will be scanned to accurately determine the trace or footprint outline (and approximate depth where possible) of each target. Note that if anomalies are identified beneath any proposed boring location, Enviroscan will continue to scan near that location until a clear zone is identified.

Please note that if any areas to be scanned contain reinforced concrete, damp clays, or other electrically conductive surficial materials, Enviroscan may switch from GPR to EM-61 scanning in that location. The EM-61 is a deep-sensing focused metal detector with digital data recording capabilities for which the focusing can be tuned to provide minimal sensitivity to near-surface materials (e.g. rebar) while maintaining sensitivity to deeper targets (i.e. USTs or other targets).

In addition (since GPR is sensitive to such a wide variety of targets), Enviroscan routinely combines EM and MAG methods with every GPR survey in order to discriminate between target types. To accomplish this, each boring location will also be scanned using a Fisher TW-6 EM metal detector and an FX-3 MAG gradiometer.

The TW-6 EM instrument detects any electrically conductive materials by creating an electromagnetic field with a transmitting coil. The field strength is measured by a receiving coil at a fixed separation from the transmitter. As the instrument is swept along the ground surface, subsurface conductive bodies distort the transmitted field. The change in field strength is sensed by the receiver, setting off an audible alarm. The TW-6 EM instrument to be employed for the above-referenced survey can nominally detect a conductive mass equivalent to a 55-gallon steel drum to a depth of 20 feet.

Enviroscan may also employ a Radiodetection CAT & Genny system (which operates in a fashion similar to the TW-6 in pipe tracing mode but with a different signal frequency), and a Radiodetection RD400 digital PDL-2 cable and pipe locator and RD433HCTx-2 transmitter. Similar to the TW-6, the transmitter can be directly coupled to exposed portions of a pipe, or indirectly (inductively) to a subsurface metallic utility of known location/orientation. The HCTx-2 transmitter produces an electromagnetic field around the metallic utility at a frequency selected by the operator (512 Hz, 8 kHz, 33 kHz, or 65 kHz), which is received at the ground surface by the PDL-2 locator.

The FX-3 MAG instrument contains two elements that measure the difference in total strength of the earth's magnetic field between two fixed heights above the ground surface (i.e. the magnetic gradient). In the absence of artificial magnetic fields or buried ferromagnetic objects, the natural gradient of the earth's field is relatively constant. Where buried magnetic or ferromagnetic objects (e.g. magnetite or iron/steel respectively) are present, the gradient varies rapidly as the instrument is swept along the ground surface, triggering an audible alarm. The MAG instrument employed for this survey can nominally detect a ferrous mass equivalent to a 55-gallon drum to a depth of 12 feet.

By completing a combined GPR/EM/MAG survey, Enviroscan can provide the most confident utility clearance survey possible utilizing the best available technology, and can recommend safe offsets for any boring locations which might impinge upon underground structures and/or utilities.

As a final product, Enviroscan will mark the locations and depths (where possible) of any identified anomalies, as well as cleared boring locations and/or alternative locations, directly on the ground surface using ANSI-designated color-coded pavement paint to ensure protection of underground structures and/or utilities. In addition (if requested), Enviroscan will prepare an electronic report describing the survey methodology and results, along with a copy of all field notes, and an overlay of a site base map (to be provided by the client in digital format) showing the locations of cleared boring locations.

The costs for completing this survey are as follows:

Mobilization/Demobilization of Equipment and Geophysicist	$1280
GPR/EM/MAG Field Survey (est. two days)	$3270 *
Optional Data Reduction/Report Preparation	$830 **

** Note that if the fieldwork is completed in less than 2 days (16 hours), Enviroscan will reduce the field survey charges by $100 per hour not used.*

*** Note that as part of Enviroscan's efforts to be ecologically conservative, hard copies of the written report will only be provided at the client's request, for an additional cost of 5% of the report preparation fee (per copy). An electronic copy of the report will continue to be provided at no additional charge. Please indicate your choices on the attached Billing Information Sheet.*

Should unforeseen site-specific conditions require revision of the scope of work or pricing of this proposal, the client will be notified immediately, and the total cost will not be exceeded without prior approval of a written change order.

If a report is requested, please note that the client will be expected to provide an as-built drawing of the site depicting the areas to be scanned (or a design drawing or reasonably accurate sketch) — preferably in digital (i.e. AutoCAD, or DXF) format. These costs assume that the client will be able to provide a to-scale digital base map upon which the results will be overlain. Should the client-supplied base map require extensive work (i.e. beyond 2 hours) to make it usable, Enviroscan will direct the map back to the client for modification. Alternatively, Enviroscan can complete such modifications (with the client's approval) at a rate of $75/hour.

Note also that all of Enviroscan's field personnel are OSHA HAZWOPER 40-Hour trained, with annual 8-hour updates. Should any additional on-site safety training (exceeding three hours in length) be required prior to initiation of the field survey, Enviroscan will bill the client for such time at a rate of $100/hour (geophysicist) and $55/hour (field technician).

The fee schedule for this project shall be in effect for a period of six months from the date of this proposal. Subsequent to that time, charges will be based upon Enviroscan's current prevailing rates. In addition, fees are based upon performance of fieldwork during Enviroscan's standard fieldwork hours (8AM to 5PM weekdays). If fieldwork must be scheduled outside of these hours, a 50% surcharge will be added to hourly labor rates for work performed during non-standard hours. No surcharge will be added to any office or administrative work performed during non-standard hours.

This proposal may be accepted by completing the enclosed Billing Information Sheet and returning one copy to Enviroscan. Please review the attached Terms & Conditions since they will become a part of the contract between Enviroscan and the client. In addition, please note the following:

- If possible (to minimize scheduling conflicts), contact us to schedule the fieldwork at least two weeks prior to the desired start date.

- If a final report is requested, it will be submitted within three weeks of completion of the fieldwork unless alternative arrangements are made when the fieldwork is scheduled. *Note that if the client requires preliminary results prior to submission of the final report, a 25% surcharge will be added to the survey report cost.*

- Note that specialized equipment must be mobilized for this survey; therefore, if the client postpones or cancels the project with less than 72 hours advance notice to Enviroscan, equipment mobilization charges may be billed

- Please refer to Enviroscan Reference No. 010919 with any correspondence.

We appreciate this opportunity to work with you again. If you have any questions, please do not hesitate to contact me.

Sincerely,
Enviroscan, Inc.

Felicia Kegel Bechtel, M.Sc., P.G.
President

Pall Corporation - IDW Subcontractors

Company	Contact	Email	Phone	M/WBE	Status	Quote ($)
Innovative Recycling Technologies, Inc.	John Ewen	jewen@irtwaste.com	O: 631.22.3044 #12	No	Received Full Quote	18,440.00
AWT Environmental Services, Inc.	Tim Roper	troper@awtenvironmental.com	O: 732.613.1660	No	Received Full Quote	19,490.00
Seacost Environmental Services, Inc.	Gene Streiter	streiterseacoast@aol.com	O: 732.275.1616 C: 732.371.2939	No	Received Full Quote	27,762.20
H & S Environmental Inc	Joanne Scamurra	jscamurra@hsenv.com	O: 508.366.7442	Yes	Received Full Quote	49,680.00

BID SHEET
INVESTIGATION-DERIVED WASTE CONTAINMENT AND DISPOSAL
GLEN COVE, LONG ISLAND, NEW YORK
JANUARY 2009

IDW handling - VOC contaminants
Primarily TCE, PCE, 1,1,1-TCA; 1,2-DCE; VINYL CHLORIDE, FREON
Water or soil possibly hazardous for TCE and/or PCE

	Estimated Quantity	Unit	Unit Rate	Subtotal	
Supply two 4,000 gallon tanks					
mobilization	2	each	$ 825.00	$ 1,650.00	
daily rental	120	day	$ 27.00	$ 3,240.00	
cleaning	2	each	$ 900.00	$ 1,800.00	*
demobilization	2	each	$ 825.00	$ 1,650.00	
dispose of water from poly tank					
	3000	gallon - nonhazardous	$ 1,750.00	$ 1,750.00	
	3000	gallon - hazardous	$ 6,250.00	$ 6,250.00	**
dispose of 55-gallon drums - primarily soil, with water, plastic debis					
	10	each - nonhazardous	$ 125.00	$ 1,250.00	
	2	each - hazardous	$ 425.00	$ 850.00	← ***

* both tanks to be cleaned on same day

TOTAL $ 18,440.00

*** HAZ drum treatable 225 550
** HAZ water treatable 2950 2950

Innovative
Recycling Technologies, Inc.
690 No. Queens Ave.
Lindenhurst, NY 11757

AWT ENVIRONMENTAL SERVICES, INC.

Professional Contractors in Site Remediation,
Decontamination and Waste Management

WORK QUOTATION

CUSTOMER:	CDM	**DATE:**	January 15, 2009
ATTENTION:	R. Chenenko	**FROM:**	T. Roper
PROPOSAL #:	CDM-5432	**LOCATION:**	Glen Cove, NY

IDW handling - VOC contaminants
Primarily TCE, PCE, 1,1,1-TCA; 1,2-DCE; VINYL CHLORIDE, FREON
Water or soil possibly hazardous for TCE and/or PCE

	Estimated Quantity	Unit	Unit Rate	Subtotal
Supply two 4,000 gallon tanks				
mobilization	2	each	$720.00	$1,440.00
daily rental	120	day	$30.00	$3,600.00
cleaning	2	each	$1,150.00	$2,300.00
demobilization	2	each	$720.00	$1,440.00
dispose of water from poly tank				
	3000	gallon - nonhazardous	$0.99	$2,970.00
	3000	gallon - hazardous	$1.75	$5,250.00
dispose of 55-gallon drums - primarily soil, with water, plastic debis				
	10	each - nonhazardous	$138.00	$1,380.00
	2	each - hazardous	$555.00	$1,110.00
			TOTAL	$19,490.00

ASSUMPTIONS AND EXCLUSIONS:

Costs for incineration of bulk liquids to be provided after additional waste stream information is received.
Please see attached General Terms and Conditions

Authorized Signature and Date

cc: E. Goode
encl.

P.O. Box 128
Sayreville, NJ 08871
(732) 613-1660
Fax (732) 613-1536

BID SHEET
INVESTIGATION-DERIVED WASTE CONTAINMENT AND DISPOSAL
GLEN COVE, LONG ISLAND, NEW YORK
JANUARY 2009

SEACOAST ENVIRONMENTAL SERVICES INC.
716 NEWMAN SPRINGS RD, PMB 292
LINCROFT, NJ 07738
(732)275-1616 FAX (732)275-1661

IDW handling - VOC contaminants
Primarily TCE, PCE, 1,1,1-TCA; 1,2-DCE; VINYL CHLORIDE, FREON
Water or soil possibly hazardous for TCE and/or PCE

	Estimated Quantity	Unit	Unit Rate	Subtotal
Supply two 4,000 gallon tanks				
mobilization	2	each	$740	$1,480
daily rental	120	day	$22	$2,640
cleaning	2	each	$860	$1,720
demobilization	2	each	$740	$1,480
dispose of water from poly tank				
	3000	gallon - nonhazardous	$0.97	$2,910
	3000	gallon - hazardous	$1.97	$5,910
dispose of 55-gallon drums - primarily soil, with water, plastic debis				
	10	each - nonhazardous	$118	$1,180
	2	each - hazardous	$198	$396

TOTAL **$17,716**

Haz waste liquid for incineration:	$0.38/#	24,990#'s	$9,496.20
Haz waste drums for incineration	$275.00/dr	2 drums	$350.00
est total for incineration			$10,046.20
TOTAL			**$27,762.20**

H&S
ENVIRONMENTAL
...an 8(a), SDB, woman-owned company

January 15, 2009

Mr. Ricky A. Chenenko
Damp Dresser & McKee

Dear Mr. Chenenko,

H&S Environmental, Inc. (H&S) is pleased to submit this proposal to supply poly tanks and provide transportation and disposal of liquid and solid waste from the Glen Cove Superfund Site for CDM.

Assumptions

1. All tanks will be delivered at the same time
2. Cleaning of tank does not include disposal of contents or cleaning fluids; disposal will be included under hazardous or non hazardous liquid waste disposal line items.
3. Pricing is valid for 30 days from the date of this letter.

We look forward to working with you. Please contact me at (508) 366-7442 or jscamurra@hsenv.com if you have any questions.

Thank you,
H&S Environmental, Inc.

Joanne Scamurra
Client Services Manager

Att: bid form

BID SHEET
INVESTIGATION-DERIVED WASTE CONTAINMENT AND DISPOSAL
GLEN COVE, LONG ISLAND, NEW YORK
JANUARY 2009

H&S Environmental, Inc.

IDW handling - VOC contaminants
Primarily TCE, PCE, 1,1,1-TCA; 1,2-DCE; VINYL CHLORIDE, FREON
Water or soil possibly hazardous for TCE and/or PCE

	Estimated Quantity	Unit	Unit Rate	Subtotal
Supply two 4,000 gallon tanks				
1 mobilization	2	each	$1,116.00	$ 2,232.00
2 daily rental	120	day	$93.00	$ 11,160.00
3 cleaning	2	each	$6,572.00	$ 13,144.00
4 demobilization	2	each	$1,116.00	$ 2,232.00
dispose of water from poly tank				
5 (1,000 gallon min.)	3000	gallon - nonhazardous	$2.17 gallon	$ 6,510.00
6 (1,000 gallon min.)	3000	gallon - hazardous	$3.41 gallon	$ 10,230.00
dispose of 55-gallon drums - primarily soil, with water, plastic debis				
7	10	each - nonhazardous	$235.00	$ 2,350.00
8	2	each - hazardous	$911.00	$ 1,822.00
			TOTAL	$49,680.00

Pall Corporation - Tracer Injection Subcontractors

Company	Contact	Email	Phone	M/WBE	Status	Quote ($)
Unitech Drilling	John Baer	info@unitechdrilling.com	O: 856-694-4200	No	Received Full Quote	3,680.00
Earth Data	Martin Kirsch	fieldservices@earthdatane.com	O: 610.524.9466	No	Received Full Quote	3,100.00
Land, Air, Water Environmental	John Lamprecht	john@lawes.org	O: 631.874.2112	WBE	Received Full Quote	2,600.00

3100 w/packer

EARTH DATA
NORTHEAST, INC
Environmental Field Services

January 15, 2009

Mr. Ricky Chenenko
Camp Dresser & McKee Inc.
Raritan Plaza I
Raritan Center
Edison, NJ 08818

Subject: Proposal to Provide Hydrogeological Field Services: Tracer Injection
Project Site Location: Nassau County, New York

Dear Mr. Chenenko:

In response to your request, Earth Data Northeast, Inc. (Earth Data) is pleased to provide Camp Dresser & McKee Inc. (CDM) with this proposal to provide all necessary manpower and equipment to pressure inject tracer chemicals into onsite wells at the above-referenced project location.

SCOPE-OF-WORK

As proposed, Earth Data will install a single packer into an onsite monitoring well and inject a tracer fluid, at the direction of CDM. For the purposes of this proposal it is assumed that the tracer injection will be performed as part of the same mobilization as the packer installation. A remobilization may be scheduled at the rates included.

Earth Data will mobilize all necessary manpower and equipment to install either a 1.8 inch (uninflated) diameter packer for wells of 2-inch diameter or a 3.5 inch (uninflated) diameter for wells 4 to 6 inches in diameter. At this time, the packer is planned to be set just above the wells screened interval. Wells to be tested are reported to be approximately 90 feet in depth each.

924 Springdale Drive Exton, PA 19341 • TEL 610-524-9466 • FAX 610-524-9482 • www.earthdatane.com

Schlumberger WATER SERVICES
Authorized Distributor

Following the inflation of the packer, a manifold will be attached to the liftpipe to allow for the connection of a back pressure gage and connection to the high pressure Rupe injection pump. The amount of fluid to be injected and the number of wells that will receive an injection is not known at this time. If these amounts exceed that which can be effectively performed in an 8-hour day (decon time included any 8 hour period) additional time will be allotted to the project at the rates provided herein.

DECONTAMINATION

It is Earth Data's standard protocol to decontaminate its equipment onsite following the completion of each logging run. Earth Data has developed a field decontamination procedure to minimize the potential for our equipment to transfer contaminants from one well to another. All logging equipment that will enter the well during the surveying will be washed with a solution of Liqui-nox and water and rinsed with distilled water as it is withdrawn from the well.

All packer testing equipment will be steam cleaned onsite following the packer test of each borehole. Earth Data will provide the necessary materials to perform the decontamination procedure. It will be the responsibility of CDM to collect, manage and dispose of the small amount of water and materials generated by the decontamination operations.

HEALTH AND SAFETY

All of Earth Data's employees working onsite will perform the proposed field activities in accordance with the established health and safety plan. As a matter of company policy, Earth Data requires that a copy of the health and safety plan be provided at least one week prior to our mobilization to the site.

All of Earth Data's field personnel working onsite will have completed an approved 40-hour health and safety course, annual health and safety refresher and will have medicals under an approved medical surveillance program. This training and monitoring are provided at no cost to CDM.

You have indicated that the proposed field activities to be performed by Earth Data can be conducted at a Level D safety level. Earth Data will provide personal protective equipment for our personnel to perform at Level D. As a matter of company policy, Earth Data provides its employees with personal protective equipment for a contingency upgrade to Level C. CDM will be responsible for providing all necessary onsite safety briefings and detection equipment to protect Earth Data's personnel and equipment while present onsite.

RESPONSIBILITIES

Earth Data will perform the proposed services acting as a subcontractor to CDM. Earth Data will be solely responsible for supervising and directing its employees in the performance of the services and in selecting and implementing the means, methods, sequences and procedures used in connection with the services. It will be the responsibility of CDM to collect, manage and dispose of waste materials generated by Earth Data's service performed hereunder.

RATES AND TERMS OF PAYMENT

Earth Data proposes to perform the services and provide the equipment described herein on a time and materials basis. Earth Data's rates to provide these services are as follows:

Packer Rental

Mobilization for packer installation	$ 1,200.00/lump sum
Hourly rate for field team, packer equipment and pump hoist truck	$ 200.00/hour
Hourly rate for Rupe Injection Pump & operator if mobilized without packer team and equipment	$ 100.00/hour
Packer assembly rental (per well) if desired for extended use	$ 100.00/day $ 500.00/week $1,000.00/month
Per Diem (if necessary) per night, lodging and meals	$ 150.00/per person

Mobilization includes all offsite preparation, initial and final travel to and from the site, and administrative time. The hourly or daily rate applies to all onsite time including unloading, setting up, decon, meetings, data collection, standby and all other onsite activities outlined in the scope of work.

The normal work day will be between the hours of 8:00 a.m. and 6:00 p.m. Monday through Friday. A 20% increase in the hourly rate will be charged for overtime (time spent onsite in excess of 10 hours) as well as for work on weekends and holidays. As previously indicated, for any work at Level C, a 15% increase in the hourly rate will be charged.

CDM's obligation to pay for the proposed services, if authorized, shall not be dependant or contingent upon CDM obtaining payment from its client or obtaining any financing, payments or approvals from any third party, including any governmental entity.

Invoices will be submitted for the work completed on a monthly basis, terms net thirty (30) days from the date of receipt of invoice by CDM. Past due balances shall be subject to an interest rate of 1.5 percent per month (18 percent on an annual basis).

NON BINDING BUDGET ESTIMATE

The following estimate of time and associated costs to perform the hydrogeological field services described herein is provided for your budget purposes only, it does not represent a fixed price for services:

Packer Installation and Tracer Injection

Mobilization/Demobilization	$ 1,200.00
(8) Onsite hours-Set up of (2) packer assemblies @ $200/hour	$ 1,600.00
Per diem, 2 people/1 night	$ 300.00
TOTAL ESTIMATED PROJECT COST	**$ 3,100.00***

***In the event packer placement does not require a pump hoist truck, the hourly rate will be reduced to $175.00/hour.**

OTHER ASSUMPTIONS, REPRESENTATIONS AND CONDITIONS

The proposed Scope-of-Work and associated costs are based on and subject to the additional assumptions, representations and conditions attached hereto and incorporated by reference.

TIMING OF PERFORMANCE

Generally, Earth Data requires two weeks notice to schedule and mobilize equipment required to perform the services described herein.

These rates are valid for ninety (90) days. Subsequent to that date, we reserve the right to review the basis of payment to allow for changing costs and scheduling.

If this proposal is acceptable to CDM, please sign the authorization below and fax this page to my attention or forward a CDM purchase order and we will proceed with the proposed work. In the meantime, if you have any questions, please do not hesitate to contact me.

Sincerely,

Martin C. Kirsch
Vice President Environmental Services

P-8483

ACCEPTED AS PROPOSED:

_____ / / **2009**

Additional Assumptions, Representations and Conditions

1. Earth Data warrants that it will conduct the proposed services in a thorough and professional manner, with the skill and care ordinarily exercised by competent consultants performing the same or similar services in the area where these services are proposed to be performed. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

2. Earth Data will hold as confidential all business and technical information obtained from CDM or generated by Earth Data as part of the proposed services, and shall not disclose such information to any third-party without the prior consent of CDM, except to the extent required for (I) performance of the proposed services, (ii) compliance with any law, court order or other governmental directive, or (iii) any litigation arising from, or relating to any services provided by Earth Data hereunder.

3. Wells and borings shall be open and free of all obstructions to facilitate insertion and extraction of equipment.

4. Any inventions or specialized techniques or processes relating to Earth Data's proposed services, including improvements or alterations of Earth Data's existing equipment, methods or technologies, made or conceived by Earth Data or its employees during performance of the proposed services, are and shall remain the sole and exclusive property of Earth Data.

5. If field equipment used during the project becomes contaminated and cannot readily and adequately be decontaminated by Earth Data as described in the Proposal, then the contaminated equipment (or contaminated portion of the equipment) shall become the property and responsibility of CDM. In that circumstance, Earth Data will turn over such equipment to CDM, and CDM shall appropriately compensate Earth Data for the loss. If the contaminated equipment represents or contains customized or proprietary technology, Earth Data reserves the right to remove any proprietary or customized component and/or render the equipment inoperable before turning it over to CDM.

6. While the possibility is remote, even when appropriate precautions are taken it is possible that equipment inserted into a well or boring may become lodged or stranded. This is a known risk associated with the insertion of any field equipment into a well or boring. Before inserting its equipment into a well or boring, Earth Data physically inspects the equipment for damage, and no equipment will be inserted into a well or boring if the technician believes it will become lodged or stranded. However, in the event equipment becomes lodged or stranded in a well, Earth Data will be allowed a total of 5 on-site hours to try and free the equipment. The cost of this work will be at the standard hourly rate set forth in the Proposal. After the allotted time, Earth Data may continue for a reasonable amount of time to try to free the equipment (at no cost to CDM) or may choose to abandon the equipment.

7. Earth Data shall not be responsible or liable for replacement of any well or boring, except to the extent such loss directly results from the negligence of Earth Data. If the negligence of Earth Data is the sole and proximate cause of the loss of a well or boring, then Earth Data will replace or repair the well or boring at no cost to CDM. However, this shall be the exclusive remedy in this circumstance and in no event shall Earth Data be responsible or liable for any incidental or consequential damages resulting from the loss or abandonment of a well or boring.

8. It shall be CDM's responsibility to grant and provide Earth Data with unobstructed access to all areas of the site where the field services will be performed. To the extent CDM is not the owner of the site, CDM must obtain appropriate authorizations from all persons or entities from whom such authorizations are required.

9. Additionally, CDM shall provide timely notice to Earth Data of the nature and extent of hazardous substances, hazardous substance contamination, or dangerous or hazardous site conditions (including, without limitation, sink holes, underground electrical or gas lines, buried drums, or the like) which are known, suspected, or assumed to be present in the areas where Earth Data will be performing field work.

10. To the extent that the assumptions, representations or conditions contained in this proposal are in conflict with any terms and conditions set forth on any subsequent purchase order or similar document issued to authorize or accept this proposal, the assumptions, representations and conditions of this proposal shall govern.

11. Unless otherwise provided in a single, unified contract document subsequently executed by Earth Data and CDM, the following provisions shall govern the relations between Earth Data and CDM:

(a) Except as provided in paragraph 11(b) below, each party agrees to indemnify, hold harmless, and defend the other from and against any and all claims, losses, costs, damages, expenses, and liabilities (including reasonable attorneys fees), whether arising by statute or at common law, for bodily injury (including death) and property damage or destruction (collectively referred to as "claims") caused by the negligent acts or omissions or willful misconduct of the indemnifying party or its agents, employees, or subcontractors.

(b) The liability of Earth Data for any condition or claims arising out of this Agreement shall not exceed the total cost of the contract between Earth Data and CDM exclusive of attorneys fees and costs. Additionally, Earth Data shall have no liability for any environmental conditions, or for any environmental contamination, which currently exists, or which may in the future exist, on or adjacent to the site at which the services hereunder are to be performed, and CDM agrees to indemnify, defend, and hold Earth Data harmless from and against any suits, demands, orders, directives or causes of action of any kind and by whomever initiated, arising from or relating to the environmental condition of, or environmental contamination on or adjacent to, the site.

(c) Any controversy or claim arising out of or relating to this Agreement, or the breach thereof, shall be settled by binding arbitration in accordance with the Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator(s) may be entered in any court having jurisdiction of the parties.

(d) This Proposal and Agreement shall not create or confer any rights or benefits to parties other than Earth Data and CDM.

2008 w/o Packers

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

January 15, 2009

CDM
Attn: Ricky A. Chenenko
Raritan Plaza I, Raritan Center
Edison, New Jersey 08818

Subject: Glen Cove dye injection proposal

Dear Mr. Chenenko:

The following is Land, Air, Water Environmental Services, Inc.'s (LAWES) proposal to perform dye injection services at your NYSDEC site in Glen Cove.

The scope of work will be to supply a 2-man crew along with a box truck with a 300 gallon tank of water, pumps, generator, hoses, 2" and 4" sanitary well seals, and pressure gauges to perform the dye injections. Approximately 25 lbs. of dye will be mixed in a 55 gallon drum and then pumped from the drum into a 90' deep well. After the dye has been pumped into the well a drum of clean water will be pumped into the well to clear the well of the remaining dye. This procedure will be performed on two wells on site. Each well head will have a pressure gauge to confirm the equalization of pressure between the well and the aquifer.

Modified level D PPE and a face shield will be utilized during the mixing and injection work. LAWES will bring to the site 300 gallons of water for injection, rinsing, and decon. It is understood that CDM, INC. will supply the dye to be mixed as well as the MSDS and any required permits.

The cost to perform the above noted scope of work is estimated as follows:

ESTIMATED MICROBIAL PRODUCT INJECTION SERVICES COST

ITEM	UNIT COST	ESTIMATED UNITS	ESTIMATED COST
Mobilization	$400/each	1 each	$400
2-man crew, box truck, tank, pump, & fittings	$2,100/day	1 day	$2,100
Overtime, after 8 hours on site	$150/hour/man	0 hours	$0
Prevailing wage rate surcharge if applicable	$350/day	0 days	$0
DOT 17H drums	$65/drum	0 drums	$0
Modified level D PPE	$50/man/day	2 each	$100
		SUB TOTAL	**$2,600**
Nassau County Sales tax @ 8.625%	$0 tax	Municipal	$0

TOTAL ESTIMATED PROJECT COSTS: $2,600

January 15, 2009

R. Chenenko/CDM- Glen Cove dye injection proposal:

ESTIMATED TIME LINE IN DAYS

TASK:	1	2	3	4	5	6	7	8	9
Mobilization	X								
Mix and inject 25 lbs. of dye at (2) locations	X								

The cost to perform the preceding scope of work is estimated at $2,600. This estimate is based upon (1) mobilization, (1) day of labor and equipment, (0) hours of time on site in excess of 8 hours, (0) days of a prevailing wage surcharge being applied, (0) DOT drums, (2) men modified level D PPE, and not having to collect the sales tax. The amount of product pumped and the rate of injection will be formation dependent. All times and quantities listed above are estimated only - actual times and quantities may vary dependent upon site and subsurface conditions.

CAMP DRESSER & McKEE, INC. will be responsible for locating and labor and equipment access to the wells to be injected into, having NYSDEC permission to inject the dye product into the ground, supplying the dye product and product-dosage-and MSDS sheets, calculating dosages and mixtures to be injected, site health and safety, all regulatory-client-owner or tenant interfacing, supplying a resale certificate, tax exemption document or paying applicable taxes, and management and disposal of wastes. All waste will remain on site. Please note that Land, Air, Water Environmental Services, Inc. is a certified Woman Owned Business Enterprise (WBE) and all work supplied will be nonunion. This proposal was not bid as a prevailing wage project and will be valid for a period of six months from issue.

Terms of this proposal will be as per the current signed CDM/LAWES standard contract to be signed. If you should have any questions or comments concerning this proposal please feel free to call and I will be happy to be of assistance.

Sincerely yours,

Accepted by:_____

P0 # :_____

VIA E-MAIL

Date:_____

John M. Lamprecht
V. President

JML:mm
Page 2.

QUOTATION

DATE	ESTIMATE NO.
1/15/2009	20091021

NAME / ADDRESS
CAMP, DRESSER, MCKEE, INC. RARITAN PLAZA 1 RARITAN CENTER EDISON NJ 08818-3142

PROJECT	TERMS	SALES REP	CONTACT	SCOPE OF WORK
GLEN COVE	Net 30	JMB	Joan Baer	DYE INJECTION

DESCRIPTION	QTY	COST	UNITS	TOTAL
MOBILIZATION/DEMOBILIZATION RATE	1	950.00	LUMP SUM	950.00
CREW LABOR	1	1,800.00	DAY	1,800.00
OVERTIME CREW RATE	0	250.00	HR	0.00
PER DIEM (if required)	0	300.00	CREW	0.00
PUMP HOIST RIG	1	600.00	DAY	600.00
2" X 1-1/4" K-PACKER	1	35.00	EA	35.00
4" X 2" K-PACKER	1	45.00	EA	45.00
1/2 HP SHALLOW JET PUMP 115V FOR INJECTION	1	250.00	DAY	250.00

1.5% per month interest will be charged on all open balances beyond 60 days. Customer will be liable for reasonable collection fees including but not limited to attorney fees and court costs.

TOTAL $3,680.00

Joan M. Baer, General Manager _____

Non-Union, Non-Prevailing Wage Rates apply unless otherwise stated above. UTD is not responsible for the location of underground utilities, public or private.

Web Site
www.unitechdrilling.com

Pall Corporation - Tracer Analysis Lab Subcontractors

Company	Contact	Email	Phone	M/WBE	Status	Quote ($)
Crawford Hydrology Laboratory	Priscella Baker	crawford.hydrology@wku.edu	O: 270.745.9224	No	Received Full Quote (includes $270 shipping)	19,168.00
Ozark Underground Laboratory	Tom Aley	oul@tri-lakes.net	O: 417-785-4289	No	Received Full Quote (includes $1175 shipping/handling)	23,560.00
Ewers Water Consultants	Ralph Ewers	ewc@mis.net	O: 859-623-8464	No	Quote excludes shipping	19,200.00

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts
Work Assignment Number D006131-4

Name of Subcontractor Crawford
Services to be Performed Laboratory
Subcontract Price $19,318
Management Fee $966

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Dye Tracer Study				
LABORATORY ANALYSIS				
Provide Dye - fluorescein	$30.00	pound	25	$750
Provide Dye - eosine	$40.00	pound	35	$1,400
Background analysis - charcoal	$45.00	sample	30	$1,350
Background analysis - water	$43.50	sample	6	$261
Test samples - charcoal	$25.00	sample	412	$10,300
Test samples - water	$18.50	sample	83	$1,536
Dye receptors	$4.50	ea	442	$1,989
grab sample vials	$1.00	ea	442	$442
Charcoal Blanks	$4.00	ea	30	$120
Charcoal Blank Analysis	$25.00	ea	30	$900
Exact shipping costs for dye and sampling supplies are passed on to the client.				
Estimate: $240 for shipping dye mixed in water				$240
Estimate: $30 for shipping supplies				$30
			Subtotal	**19,318**
			Subtotal-Subcontract Price	**$19,318**

Schedule 2.11 (f)
Pall Corporation Site
Unit Price Subcontracts
Work Assignment Number D006131-4

Name of Subcontractor Ozark Underground Laboratory, Inc.
Services to be Performed Laboratory
Subcontract Price $22,510
Management Fee $1,126

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Dye Tracer Study				
LABORATORY ANALYSIS				
Provide Dye - fluorescein	$40.00	pound	25	$1,000
Provide Dye - eosine	$50.00	pound	35	$1,750
Background analysis - charcoal	$35.00	sample	30	$1,050
Background analysis - water	$35.00	sample	6	$210
Test samples - charcoal	$35.00	sample	412	$14,420
Test samples - water	$35.00	sample	83	$2,905
Clean & Return Coolers	$12.50	cooler	30	$375
Ground Shipping @ cost + 5%		project		$800
Note: Charcoal Samplers, Water Sample vials, & WP Bags provided at no charge				
Blanks not recommended				
			Subtotal	**22,510**
			Subtotal-Subcontract Price	**$22,510**

Pall Corporation - Data Validation Subcontractors

Company	Contact	Email	Phone	M/WBE	Status	Quote ($)
CRA Services	Paul McMahon	pmcmahon@craworld.com	O: 716.297.2160		Received Full Quote	1,740.00
	Denise Anderson	danderson@craworld.com				
ChemWorld Environmental, Inc	Andrea P. Schuessler	chemworld@comcast.net	O: 301.294.6144	WBE	Received Full Quote	1,823.00
Environmental Data Validation, Inc	Maxine Walters	wwalters@ix.netcom.com	O: 412.341.5281	WBE	Received Full Quote	4,670.43

Unit Price Subcontracts

Name of Subcontractor	**CRA Services**
Services to be Performed	**Data Validators**
Subcontract Price	**$1,740.00**
Management Fee	**$87.00**
Firm Type	**WBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a)	$10.00	Sample	48	$480.00
Total Organic Carbon	$7.00	Sample	6	$42.00
Priority Pollutant Metals	$10.00	Sample	6	$60.00
Groundwater				
TCL VOCs + freon 8260B	$10.00	Sample	18	$180.00
total organic carbon	$5.00	Sample	12	$60.00
dissolved organic carbon	$5.00	Sample	12	$60.00
chemical oxygen demand	$5.00	Sample	12	$60.00
biological oxygen demand	$5.00	Sample	12	$60.00
nitrate	$5.00	Sample	12	$60.00
sulfate	$5.00	Sample	12	$60.00
phosphate	$5.00	Sample	12	$60.00
total alkalinity	$5.00	Sample	12	$60.00
total iron	$5.00	Sample	12	$60.00
priority pollutant metals	$10.00	Sample	12	$120.00
methane	$3.00	Sample	12	$36.00
ethane	$3.00	Sample	12	$36.00
ethene	$3.00	Sample	12	$36.00
Air				
Volatile Organics with EPA TO-15	$10.00	Sample	15	$150.00
IDW				
RCRA Characteristics, TCLP	$30.00	Sample	2	$60.00
Subtotal-Subcontract Price				**$1,740.00**
Subcontract Management Fee*				**$87.00**
TOTAL				**$1,827.00**

Unit Price Subcontracts

Name of Subcontractor	**Chem World Environmental Inc.**
Services to be Performed	**NYSDEC DUSR**
Subcontract Price	**$1,823.00**
Management Fee	**$91.15**
Firm Type	**WBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a)	$14.00	Sample	48	$672.00
Total Organic Carbon	$2.00	Sample	6	$12.00
Priority Pollutant Metals	$12.00	Sample	6	$72.00
Groundwater				
TCL VOCs + freon 8260B	$14.00	Sample	18	$252.00
total organic carbon	$2.00	Sample	12	$24.00
dissolved organic carbon	$2.00	Sample	12	$24.00
chemical oxygen demand	$2.00	Sample	12	$24.00
biological oxygen demand	$2.00	Sample	12	$24.00
nitrate	$2.00	Sample	12	$24.00
sulfate	$2.00	Sample	12	$24.00
phosphate	$2.00	Sample	12	$24.00
total alkalinity	$2.00	Sample	12	$24.00
total iron	4	Sample	12	$48.00
priority pollutant metals	12	Sample	12	$144.00
methane (MDL 1 ug/L)	8	Sample	12	$96.00
ethane (MDL 1 ug/L)	**incl with methane**	Sample	12	*
ethene (MDL 1 ug/L)	**incl with methane**	Sample	12	*
* $150 includes analysis of M/E/E				
M/E/E will be subcontracted out				
Air				
Volatile Organics with EPA TO-15	$13.00	Sample	15	$195.00
IDW				
RCRA Characteristics, TCLP	$70.00	Sample	2	$140.00

Subtotal-Subcontract Price	**$1,823.00**
Subcontract Management Fee*	**$91.15**
TOTAL	**$1,914.15**

Unit Price Subcontracts
Work Assignment Number D

Name of Subcontractor — **Environmental Data Validation Inc.**
Services to be Performed — **Data Validation**
Subcontract Price — **$4,670.43**
Management Fee — **$233.52**
Firm Type — **WBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs	$19.98	Sample	48	$959.04
Total Organic Carbon	$5.99	Sample	6	$35.94
Priority Pollutant Metals	$23.59	Sample	6	$141.54
Groundwater				
TCL VOCs + freon 8260B [1]	$19.98	Sample	18	$359.64
total organic carbon	$5.99	Sample	12	$71.88
dissolved organic carbon	$5.99	Sample	12	$71.88
chemical oxygen demand	$5.99	Sample	12	$71.88
biological oxygen demand	$5.99	Sample	12	$71.88
nitrate	$5.99	Sample	12	$71.88
sulfate	$5.99	Sample	12	$71.88
phosphate	$5.99	Sample	12	$71.88
total alkalinity	$5.99	Sample	12	$71.88
total iron	$12.99	Sample	12	$155.88
priority pollutant metals	$23.59	Sample	12	$283.08
methane (MDL 5 ug/L)	$12.99	Sample	12	$155.88
ethane (MDL 5 ug/L)	$12.99	Sample	12	$155.88
ethene (MDL 5 ug/L)	$12.99	Sample	12	$155.88
Air				
Volatile Organics with EPA TO-15	$20.09	Sample	15	$301.35
IDW				
RCRA Characteristics, TCLP	$35.00	Sample	2	$1,391.28

Subtotal-Subcontract Price	**$4,670.43**
Subcontract Management Fee*	**$233.52**
TOTAL	**$4,903.95**

Pall Corporation - Lab Subcontractors

Company	Contact	Email	Phone	M/WBE	Status	Quote ($)
ChemTech	Franco Pugliese	fpugliese@chemtech.net	O: 908.789.8900 C: 732.688.2643	MBE	Received Full Quote	17,220.95
Mitkem Corporation	Ed Lawler	elawler@mitkem.com	O: 401.732.3400 x315	No	Received Full Quote	15,555.00
Hampton-Clarke/Veritech Labs	Rich Gerbes	rich@hampton-clarke.com	O: 845.569.8316	No	Received Full Quote	17,783.50
Upstate Laboratories, Inc.	Gary George	ggeorge@upstatelabs.com	O: 315.437.0255 x261	No	Received Full Quote	11,806.95
TestAmerica Laboratories, Inc.	James Stellrecht	Jim.Stellrecht@testamericainc.com	O: 716.504.9833 C: 716.830.8637	No	Received Full Quote	19,139.68
H2M Labs, Inc.	Jennifer Aracri	jaracri@h2m.com	O: 631.694.3040 x1211	No	Received Full Quote	19,986.00

Unit Price Subcontracts

Name of Subcontractor	**Upstate Laboratories, Inc.** 315-437-0255
Services to be Performed	**Laboratory**
Subcontract Price	**$11,806.95**
Management Fee	**$590.35**
Firm Type	**Non-M/WBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a)	$60.00	Sample	48	$2,880.00
Total Organic Carbon	$10.05	Sample	6	$60.30
Priority Pollutant Metals	$74.95	Sample	6	$449.70
Groundwater				
TCL VOCs + freon 8260B	$60.00	Sample	18	$1,080.00
total organic carbon	$9.45	Sample	12	$113.40
dissolved organic carbon	$9.45	Sample	12	$113.40
chemical oxygen demand	$7.10	Sample	12	$85.20
biological oxygen demand	$7.70	Sample	12	$92.40
nitrate	$5.90	Sample	12	$72.00
sulfate	$4.75	Sample	12	$60.00
phosphate	$7.70	Sample	12	$92.40
total alkalinity	$8.85	Sample	12	$106.20
total iron	$3.55	Sample	12	$42.60
priority pollutant metals	$65.50	Sample	12	$786.00
methane 0.050 mg / kg	$75.00	Sample	12	$900.00
ethane 0.050 mg / kg	Inc. w/ Methane	Sample	12	Included
ethene 0.050 mg / kg	Inc. w/ Methane	Sample	12	Included
Air				
Volatile Organics with EPA TO-15	$274.89	Sample	15	$4,123.35
Summa cannister with 24-hr flow regulator	No Cost	Sample	15	$0.00
IDW				
RCRA Characteristics, TCLP	$375.00	Sample	2	$750.00
Subtotal-Subcontract Price				**$11,806.95**
Subcontract Management Fee*				**$590.35**
TOTAL				**$12,397.30**

Unit Price Subcontracts

Name of Subcontractor	**Mitkem**
Services to be Performed	**Laboratory**
Subcontract Price	**$15,555.00**
Management Fee	**$777.75**
Firm Type	**Non-M/WBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a)	$69.00	Sample	48	$3,312.00
Total Organic Carbon	$25.00	Sample	6	$150.00
Priority Pollutant Metals	$55.00	Sample	6	$330.00
Groundwater				
TCL VOCs + freon 8260B	$69.00	Sample	18	$1,242.00
total organic carbon	$25.00	Sample	12	$300.00
dissolved organic carbon	$25.00	Sample	12	$300.00
chemical oxygen demand	$20.00	Sample	12	$240.00
biological oxygen demand	$20.00	Sample	12	$240.00
nitrate	$20.00	Sample	12	$240.00
sulfate	$20.00	Sample	12	$240.00
phosphate	$20.00	Sample	12	$240.00
total alkalinity	$5.00	Sample	12	$60.00
total iron	$13.00	Sample	12	$156.00
priority pollutant metals	$55.00	Sample	12	$660.00
methane	$75.00	Sample	12	$900.00
ethane	Inc. w/ Methane	Sample	12	$0.00
ethene	Inc. w/ Methane	Sample	12	$0.00
Air				
Volatile Organics with EPA TO-15	$265.00	Sample	15	$3,975.00
Summa cannister with 24-hr flow regulator	$110.00	Sample	15	$1,650.00
IDW				
RCRA Characteristics, TCLP	$660.00	Sample	2	$1,320.00
Subtotal-Subcontract Price				**$15,555.00**
Subcontract Management Fee*				**$777.75**
TOTAL				**$16,332.75**

Note:

VOC analysis includes several freon compounds. See attached list. Other freons may be available upon request. Freon-113 is included in the TCL VOCs costs.

Methane, ethane and ethene are all analyzed together for $75/sample. Reporting limits (PQL) and detection limits are listed below:

&Analyte	MDL	PQL	Unit
Methane	0.28	0.58	ppb
Ethane	0.24	1.2	ppb
Ethene	0.4	1.5	ppb

Unit Price Subcontracts
Work Assignment Number D

Name of Subcontractor	**Chemtech**
Services to be Performed	**Laboratory**
Subcontract Price	**$17,220.95**
Management Fee	**$861.05**
Firm Type	**MBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a) [1]	$93.71	Sample	48	$4,498.08
Total Organic Carbon	$47.25	Sample	6	$283.50
Priority Pollutant Metals	$90.00	Sample	6	$540.00
Groundwater				
TCL VOCs + freon 8260B [1]	$93.71	Sample	18	$1,686.78
total organic carbon	$45.00	Sample	12	$540.00
dissolved organic carbon	$45.00	Sample	12	$540.00
chemical oxygen demand	$19.85	Sample	12	$238.20
biological oxygen demand	$30.87	Sample	12	$370.44
nitrate	$16.54	Sample	12	$198.48
sulfate	$16.54	Sample	12	$198.48
phosphate	$22.05	Sample	12	$264.60
total alkalinity	$16.54	Sample	12	$198.48
total iron	$27.56	Sample	12	$330.72
priority pollutant metals	$90.00	Sample	12	$1,080.00
methane (MDL 5 ug/L)	$110.25	Sample	12	$1,323.00
ethane (MDL 5 ug/L)	Inc. w/ Methane	Sample	12	$0.00
ethene (MDL 5 ug/L)	Inc. w/ Methane	Sample	12	$0.00
Air				
Volatile Organics with EPA TO-15	$197.34	Sample	15	$2,960.10
Summa cannister with 24-hr flow regulator	$38.59	Sample	15	$578.81
IDW				
RCRA Characteristics, TCLP	695.64	Sample	2	$1,391.28
Subtotal-Subcontract Price				**$17,220.95**
Subcontract Management Fee*				**$861.05**
TOTAL				**$18,082.00**

Notes:
1. Included in Unit cost are VOC+10 + Freon-11, Freon 12 and Freon-113

Unit Price Subcontracts

	HC-V quote # 010209RG1
Name of Subcontractor	Hampton-Clarke/Veritech
Services to be Performed	Laboratory
Subcontract Price	$17,783.50
Management Fee	$889.18
Firm Type	Non-M/WBE

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a)	$75.00	Sample	48	$3,600.00
Freon-113 (if requested separately)*	$60.00	Sample	48	$2,880.00
Total Organic Carbon	$45.00	Sample	6	$270.00
Priority Pollutant Metals	$82.00	Sample	6	$492.00
Groundwater				
TCL VOCs + freon 8260B	$75.00	Sample	18	$1,350.00
total organic carbon	$24	Sample	12	$288.00
dissolved organic carbon	$24.00	Sample	12	$288.00
chemical oxygen demand	$18.00	Sample	12	$216.00
biological oxygen demand	$38.00	Sample	12	$456.00
nitrate	$20	Sample	12	$240.00
sulfate	$20	Sample	12	$240.00
phosphate	20	Sample	12	$240.00
total alkalinity	$15	Sample	12	$180.00
total iron	12	Sample	12	$144.00
priority pollutant metals	82	Sample	12	$984.00
methane (MDL 1 ug/L)	150	Sample	12	$1,800.00
ethane (MDL 1 ug/L)	*	Sample	12	*
ethene (MDL 1 ug/L)	*	Sample	12	*
* $150 includes analysis of M/E/E				
M/E/E will be subcontracted out				
Air				
Volatile Organics with EPA TO-15	$341.78	Sample	15	$5,126.63
Summa cannister with 24-hr flow regulator	$55.13	Sample	15	$826.88
IDW				
RCRA Characteristics, TCLP	$521.00	Sample	2	$1,042.00
Subtotal-Subcontract Price				**$17,783.50**
Subcontract Management Fee*				**$889.18**
TOTAL				**$18,672.68**

Note:
Freon-113 is included in TCL VOCs. There will be a separate cost if Freon-113 is requested separately.

&Analyte	MDL	RLs	Unit
Methane	1	5	ppb
Ethane	1	5	ppb
Ethene	1	5	ppb

Unit Price Subcontracts

Name of Subcontractor	**TestAmerica Laboratories, Inc. Buffalo, NY**
Services to be Performed	**Laboratory**
Subcontract Price	**$19,139.68**
Management Fee	**$956.98**
Firm Type	**Non-M/WBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a)	$109.50	Sample	48	$5,256.00
Total Organic Carbon	$52.50	Sample	6	$315.00
Priority Pollutant Metals	$97.00	Sample	6	$582.00
Groundwater				
TCL VOCs + freon 8260B	$109.50	Sample	18	$1,971.00
total organic carbon	$52.50	Sample	12	$630.00
dissolved organic carbon	$52.50	Sample	12	$630.00
chemical oxygen demand	$31.50	Sample	12	$378.00
biological oxygen demand	$22.00	Sample	12	$264.00
nitrate	$11.55	Sample	12	$138.60
sulfate	$11.55	Sample	12	$138.60
phosphate	$15.75	Sample	12	$189.00
total alkalinity	$11.55	Sample	12	$138.60
total iron	$26.25	Sample	12	$315.00
priority pollutant metals	$97.00	Sample	12	$1,164.00
methane (RL 1 ug/L)	$150.00	Sample	12	$1,800.00
ethane (RL 1.5 ug/L)	Inc. w/ Methane	Sample	12	$0.00
ethene (RL 1.5 ug/L)	Inc. w/ Methane	Sample	12	$0.00
Air				
Volatile Organics with EPA TO-15	$190.96	Sample	15	$2,864.43
Summa cannister with 24-hr flow regulator	$74.26	Sample	15	$1,113.95
IDW				
RCRA Characteristics, TCLP	$625.75	Sample	2	$1,251.50

Subtotal-Subcontract Price	**$19,139.68**
Subcontract Management Fee*	**$956.98**
TOTAL	**$20,096.66**

Note:
Methane, Ethane and Ethene together bu RSK175 =$150/sample
TestAmerica Laboratories, Inc. in Buffalo, NY 716-691-2600 January 6, 2009
Freon-113 is included in TCL VOCs analytical costs.

Unit Price Subcontracts

Name of Subcontractor	**H2M**
Services to be Performed	**Laboratory**
Subcontract Price	**$19,986.00**
Management Fee	**$999.30**
Firm Type	**Non-M/WBE**

Item	Max. Reimbursement Rate	Specify Unit	Est. No. of Units	Total Est. Cost
Task 2 - Site Characterization				
LABORATORY ANALYSIS				
Soil				
TCL VOCs + freon 8260B (a)	$90.00	Sample	48	$4,320.00
Total Organic Carbon	No Bid	Sample	6	$0.00
Priority Pollutant Metals	$100.00	Sample	6	$600.00
Groundwater				
TCL VOCs + freon 8260B	$90.00	Sample	18	$1,620.00
total organic carbon	$30	Sample	12	$360.00
dissolved organic carbon	$30.00	Sample	12	$360.00
chemical oxygen demand	$12.00	Sample	12	$144.00
biological oxygen demand	$15.00	Sample	12	$180.00
nitrate	$8.00	Sample	12	$96.00
sulfate	$12.00	Sample	12	$144.00
phosphate	$8.00	Sample	12	$96.00
total alkalinity	$8.00	Sample	12	$96.00
total iron	$15.00	Sample	12	$180.00
priority pollutant metals	$100.00	Sample	12	$1,200.00
methane, ethane, ethene (MDL 1 ug/L)	$100.00	Sample	12	$1,200.00
Air				
Volatile Organics with EPA TO-15	$306.00	Sample	15	$4,590.00
Summa cannister with 24-hr flow regulator	$204.00	Sample	15	$3,060.00
IDW				
RCRA Characteristics, TCLP	$870.00	Sample	2	$1,740.00
Subtotal-Subcontract Price				**$19,986.00**
Subcontract Management Fee*				**$999.30**
TOTAL				**$20,985.30**

Note:
Freon-113 is included in the TCL VOCs analytical cost.

Pall Corporation - Geoprobe Subcontractors

Company	Contact	Email	Phone	M/WBE	Status	Quote ($)
Aztech Technologies, Inc.	Fil Fina	ffina3@aztechtech.com	O: 518.885.5383 C: 518.281.8888	WBE	Received Full Quote	17,897.00
Hydrotech Environmental Corp.	Adam DiCrescio	adicrescio@hydrotechenvironmental.com	O: 631.462.5866	No	Received Full Quote	22,078.00
Delta Well	Christopher Okon	chris@deltawell.com	O: 631.981.2255	WBE	Declined to Bid	N/A
Land, Air, Water Environmental	John Lamprecht	john@lawes.org	O: 631.874.2112	WBE	Declined to Bid	24,400.00
Zebra Environmental Corp.	David Vines	david@zebraenv.com	O: 516.596.6300	No	Received Full Quote	21,090.00

NYSDEC Standby Subcontracting
Pall Corporation
Glen Cove, NY

Name of Subcontractor — Aztech
Services to be Performed — Geoprobe
Contact Information
Email Address
Subcontract Price
Management Fee
Firm Type

			Unit Rate		Cost	
Item/Description	Quantity	Units	Level C	Level D	Level C	Level D
Mob/Demob	10	days		$2,725.00		$2,725.00
Senior Technician/Driller		per hour				incl
Technician		per hour				incl
Permits		LS				n/a
Rig Mileage Rate		per mile				incl
Per Diem Rate		per day				incl
Prevailing Wage Upcharge		per day				n/a
Support Truck Mileage Rate		per mile				n/a
Utility Clearance		LS				incl
Drill Rig and Crew						
Track Drill Rig & Crew (1 man crew)	10	per day		$1,050.00		10500
Overtime Rate		per hour		$135.00		
Soil Sampling & Temporary Monitoring Wells						
standard Macro Core Soil Samples with Acetate Liners	180	each		$6.00		1080
1" Sch40 PVC Riser		per foot		--		
1" Sch40 PVC 010 Slot Screen to be pulled up in 10-foot increments for groundwater profiling		per foot		--		
1" PVC Cap		each		--		
Sand and Bentonite Grouting of hole to ground surface	720	per foot		$1.50		1080
Groundwater Sample	0	each		$5.00		0
Disposable points for sampling, if required	0	each		$5.00		0
Soil Vapor Point Installation						
Shallow Soil Vapor Point Installation (0-8')*	4	each		$83.00		332
Deep Soil Vapor Point Installation (8'-16')*		each				
Miscellaneous						
Decontamination	4	per hour		$80.00		320
Standby Time	2	per hour		$80.00		160
55-Gallon DOT Drum	12	each		$48.00		576
poly tubing	incl	incl				
TOTALS						$16,773

8% third year cost increase - as per contract

TOTALS						$17,897

NYSDEC Standby Subcontracting
Pall Corporation
Glen Cove, NY

Name of Subcontractor — **Zebra**
Services to be Performed — **Geoprobe**
Contact Information
Email Address
Subcontract Price
Management Fee
Firm Type

			Unit Rate		Cost	
Item/Description	Quantity	Units	Level C	Level D	Level C	Level D
Mob/Demob	10	days		$285.00		$2,850.00
Senior Technician/Driller		per hour				incl
Technician		per hour				incl
Permits		LS				n/a
Rig Mileage Rate		per mile				incl
Per Diem Rate		per day				incl
Prevailing Wage Upcharge		per day				n/a
Support Truck Mileage Rate		per mile				n/a
Utility Clearance		LS				incl
Drill Rig and Crew						
Track Drill Rig & Crew	10	per day		$1,400.00		14000
Overtime Rate		per hour				
Soil Sampling & Temporary Monitoring Wells						
3" Macro Core Soil Samples with Acetate Liners	180	each		$8.00		1440
1" Sch40 PVC Riser		per foot		--		
1" Sch40 PVC 010 Slot Screen to be pulled up in 10-foot increments for groundwater profiling		per foot		--		
1" PVC Cap		each		--		
Sand and Bentonite Grouting of hole to ground surface	720	per foot		$1.25		900
Groundwater Sample	0	each		$20.00		$0.00
Soil Vapor Point Installation						
Shallow Soil Vapor Point Installation (0-8')*	4	each		$95.00		380
Deep Soil Vapor Point Installation (8'-16')*						
Miscellaneous						
Decontamination	4	per hour		$115.00		460
Standby Time	2	per hour		$200.00		400
55-Gallon DOT Drum	12	each		$55.00		660
poly tubing	incl	incl				
TOTALS						$21,090

NYSDEC Standby Subcontracting
Pall Corporation
Glen Cove, NY

Name of Subcontractor — **Hydro Tech Environmental Corp.**
Services to be Performed — **Geoprobe**
Contact Information
Email Address
Subcontract Price
Management Fee
Firm Type

			Unit Rate		Cost	
Item/Description	Quantity	Units	Level C	Level D	Level C	Level D
Mob/Demob	10	days		$250.00		$2,500.00
Senior Technician/Driller		per hour				incl
Technician		per hour				incl
Permits		LS				n/a
Rig Mileage Rate		per mile				incl
Per Diem Rate		per day				incl
Prevailing Wage Upcharge		per day				n/a
Support Truck Mileage Rate		per mile				n/a
Utility Clearance		LS				incl
Drill Rig and Crew						
Track Drill Rig & Crew	10	per day		$1,200.00		12000
Overtime Rate		per hour				
Soil Sampling & Temporary Monitoring Wells						
3" Macro Core Soil Samples with Acetate Liners	180	each		$3.00		540
1" Sch40 PVC Riser		per foot		--		
1" Sch40 PVC 010 Slot Screen to be pulled up in 10-foot increments for groundwater profiling		per foot		--		
1" PVC Cap		each		--		
Sand and Bentonite Grouting of hole to ground surface	720	per foot		$8.00		5760
Groundwater Sample	0	each		$0.00		0
Soil Vapor Point Installation						
Shallow Soil Vapor Point Installation (0-8')*	4	each		$90.00		360
Deep Soil Vapor Point Installation (8'-16')*		each				
Miscellaneous						
Decontamination	4	per hour		$45.00		180
Standby Time	2	per hour		$99.00		198
55-Gallon DOT Drum	12	each		$45.00		540
poly tubing	incl	incl				
TOTALS						$22,078

NYSDEC Standby Subcontracting
Pall Corporation
Glen Cove, NY

Name of Subcontractor — Land, Air, Water Environmental Services, Inc
Services to be Performed — Geoprobe
Contact Information
Email Address
Subcontract Price
Management Fee
Firm Type

			Unit Rate		Cost	
Item/Description	Quantity	Units	Level C	Level D	Level C	Level D
Mob/Demob	1	days		$500.00		$500.00
Senior Technician/Driller		per hour				incl
Technician		per hour				incl
Permits		LS				n/a
Rig Mileage Rate		per mile				incl
Per Diem Rate		per day				incl
Prevailing Wage Upcharge		per day				n/a
Support Truck Mileage Rate		per mile				n/a
Utility Clearance		LS				incl
Drill Rig and Crew						
Track Drill Rig & Crew	10	per day		$1,800.00		$18,000.00
Overtime Rate		per hour				
Soil Sampling & Temporary Monitoring Wells						
3" Macro Core Soil Samples with Acetate Liners	180	each		$8.00		1440
1" Sch40 PVC Riser		per foot		--		
1" Sch40 PVC 010 Slot Screen to be pulled up in 10-foot increments for groundwater profiling		per foot		--		
1" PVC Cap		each		--		
Sand and Bentonite Grouting of hole to ground surface	720	per foot		$4.00		$2,880.00
Groundwater Sample	0	each				0
Soil Vapor Point Installation						
Shallow Soil Vapor Point Installation (0-8')*	4	each		$200.00		$800.00
Deep Soil Vapor Point Installation (8'-16')*		each				
Miscellaneous						
Decontamination	4	per hour		$0.00		0
Standby Time	2	per hour		$0.00		0
55-Gallon DOT Drum	12	each		$65.00		$780.00
poly tubing	incl	incl				
TOTALS						**$24,400**

Note:
It is assumed that there will be a single mobilization for 10 days.

NYSDEC Standby Subcontracting
Pall Corporation
Glen Cove, NY

Name of Subcontractor Delta Drilling
Services to be Performed Geoprobe
Contact Information

Email Address
Subcontract Price

Management Fee
Firm Type

DENIED FROM BID

			Unit Rate		Cost	
Item/Description	Quantity	Units	Level C	Level D	Level C	Level D
Mob/Demob	10	days				$0.00
Senior Technician/Driller		per hour				incl
Technician		per hour				incl
Permits		LS				n/a
Rig Mileage Rate		per mile				incl
Per Diem Rate		per day				incl
Prevailing Wage Upcharge		per day				n/a
Support Truck Mileage Rate		per mile				n/a
Utility Clearance		LS				incl
Drill Rig and Crew						
Track Drill Rig & Crew	10	per day				0
Overtime Rate		per hour				
Soil Sampling & Temporary Monitoring Wells						
3" Macro Core Soil Samples with Acetate Liners	180	each				0
1" Sch40 PVC Riser		per foot		--		
1" Sch40 PVC 010 Slot Screen to be pulled up in 10-foot increments for groundwater profiling		per foot		--		
1" PVC Cap		each		--		
Sand and Bentonite Grouting of hole to ground surface	720	per foot				0
Groundwater Sample	0	each				0
Soil Vapor Point Installation						
Shallow Soil Vapor Point Installation (0-8') *	4	each				0
Deep Soil Vapor Point Installation (8'-16') *		each				
Miscellaneous						
Decontamination	4	per hour				0
Standby Time	2	per hour				0
55-Gallon DOT Drum	12	each				0
poly tubing	incl	incl				
TOTALS						$0

Appendix D
M/WBE-EEO Work Plan

Consultant Contractor Detailed M/WBP-EEO Utilization Plan
New York State Department of Environmental Conservation

Contractor Name:	Camp Dresser & McKee			
Contract Type:	Design/Construct	Contract Number: D-006131		Contract Award Date: August 2006
Contractor's Address:	15 Cornell Road	City: Albany	State: NY	Zip Code: 12110
Municipality/Project Owner Name:	Camp Dresser & McKee		Poject No.: WA-8	Phone Number:
Address:	100 Crossways Park West	City: Woodbury	State: NY	Zip Code:11797
Representative Signature:				
Minority Business Entrprise Officer (MBEO) Name:		Signature:		
MBEO Address:				MBEO Email:
City:		State:	Zip Code:	Phone Number:
Project Location:	City: Oceanside	Town:	Village:	County: Nassau

PROJECTED M/WBE AND EEO CONTRACT SUMMARY

	%	*Amount*		%	*No./Employ*	*Wk./Hrs.*
1. Total Dollar Value of the Work Assignment	100%	$396,484.00	5. Total for all Employees	100%	10	1334
2. MBE Goal Applied to the Contract	15.0%	$59,472.00	6. Total Goal for Minoirty Employee	10%	1	133.4
3. WBE Goal Applied to the Contract	5.0%	$19,824.00	7. Total Goal for Female Employee	10%	1	133.4
4. MBE/WBE Combined Totals	20.0%	$79,296.00	8. EEO Combined Goals	20%	2	266.8

EFC ADMINISTRATIVE SERVICES UNIT'S M/WBE PROGRAMS USE ONLY

Proposed Goals		Date Approved	Date Disapproved	Initials
MBE (%)	EEO-Minorities (%)			
WBE (%)	EEO-Female (%)			

SECTION I-MBE INFORMATION: In order to achieve the MBE Goals, New York State certified MINORITY-OWNED firms are expected to participate in the fol

MBE Firm (Exactly as Registered)	Description of Work [MBE]	Projected MBE Contract Amount and Award Date	Contract Schedule Start Date	Contract Payment Schedule	Project Completion Date
Name: Address: City: State/Zip Code: Telephone No.: Federal I.D.:		Amount: Date:		monthly invoices	
Name: Address: City: State/Zip Code: Telephone No.: Federal I.D.:		Amount: Date:		Monthly	
Name Address: City: State/ Zip Telephone No.: Federal I.D.:		Amount: Date:			

SECTION II-WBE INFORMATION: In order to achieve the WBE Goals, New York State certified WOMEN-OWNED firms are expected to participate in the following manner.

WBE Firm (Exactly as Registered)	Description of Work [WBE]	Projected WBE Contract Amount and Award Date	Contract Schedule Start Date	Contract Payment Schedule	Project Completion Date
Name: Aztech Technologies Address: 5 McCrea Hill Road City: Ballston Spa State/Zip Code: NY 12020 Telephone No.: 518-885-5383 Federal I.D.:	Geoprobe	Amount: $17,897.00 Date: 01/09/09	Mach 2009	monthly invoices	Nov-09
Name: Address: City: State/Zip Code: Telephone No.: Federal I.D.:		Amount: Date:		Upoon task completion	
Name: Address: City: State/Zip Code: Telephone No.: Federal I.D.:		Amount: Date:		upon completion or monthly invoices	

SECTION III - EEO INFORMATION

In order to achieve the EEO Goals, Minorities and Females are expected to be employed in the following job categories for the specified amount of work hours.

		All Employees		Minority Employees			
Job Categories	Total Work Hours of Contract	Males	Females	Black	Asian	Native American	Hispanic
Officials/ Managers	100.00	100	0				
Professionals	2514.00	1950	564	100	650		
Technicians	94.00	75	19	0			
Sales Workers					0		
Office/Clerical	64.00	0	64	30	0		
Craftsmen							
Laborers							
Service/ Workers							
TOTALS	2772.00	2125	647	130	650	0	0