

WORK PLAN
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Villa Dry Cleaners
(Site No.:1-52-188)
Town of Babylon, New York

Prepared for

New York State Department of Environmental Conservation
Investigation and Design Engineering Services
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Section 1

Introduction

This Work Plan for Villa Dry Cleaners (herein referred to as the “Site”) located at 1899 Deer Park Avenue, Town of Babylon, Suffolk County, New York was prepared by Camp Dresser and McKee Inc. (CDM) for the New York State Department of Environmental Conservation (NYSDEC) under the Engineering Services for Investigation and Design, Standby Contract No. D004437. Background and site information used in the development of this Work Plan was furnished by NYSDEC. The work plan was developed in accordance with the “Standby Contract Work Assignment, Remedial Investigation/Feasibility Study, Site No. 1-52-188 issued July 23, 2008” and discussions during the site visit on August 20, 2008.

1.1 Purpose and Objectives

The objective of this work assignment (WA) is to perform a Remedial Investigation (RI)/Feasibility Study (FS) for the Site. The RI will focus on characterizing the horizontal and vertical extent of chlorinated solvents in the upper glacial aquifer, assessing potential for subsurface soil contamination, and characterizing the groundwater flow. Field tasks for this investigation are:

- Geophysical survey to locate existing wells and utilities
- Existing monitoring well sampling (3 conventional wells and 1 cluster well with 5 ports) for VOCs
- Lithologic sampling and groundwater screening consisting of 17 locations in 5 transects oriented perpendicular to groundwater flow
- Soil sampling
- Installation and development of 6 new monitoring wells
- Sampling of up to 14 monitoring wells for VOCs and MNA parameters
- Community Air Monitoring

1.2 Site Description and Background

1.2.1 Site Location

Villa Dry Cleaners is located at 1899 Deer Park Avenue, in a commercial area in the Hamlet of Deer Park, Town of in Babylon, Suffolk County, New York (site). Deer Park Ave runs generally north to south. The subject property is on the east side of the roadway. The building faces the east side of Deer Park Avenue and is bound by the Long Island Railroad to the north, approximately 12 feet above property grade. The properties to the south are occupied by a one story commercial business. To the east, the property borders the front lawn of a public school administration building.

1.2.2 Operational History

Contamination is reportedly due to former disposal practices and/or releases from the Villa Cleaners site to the onsite sanitary leaching pools. The Department's records indicate that contamination at the site was identified in May 1997 during a Suffolk County Department of Health Services (SCDHS) inspection of the site, during which time sediment was sampled from the five onsite sanitary leaching pools (RM-1 through RM-5). Volatiles were identified at elevated concentrations at RM-1 through RM-4, including PCE at a concentration of 100 ppb at RM-2.

A remedial action was implemented at the site in October 1997 on behalf of the responsible party (report will be made available to the consultant). The remedial action included the removal of liquids and sediments from the on-site sanitary leaching pools and a storm drain towards the rear of the property. Endpoint samples collected at the cleaned-out structures identified low levels of volatiles in the soils but no TCE, 1,2 DCE, or Vinyl Chloride. PCE was identified at a concentration of 2 mg/kg in the soil sample collected at RM-5. Additionally, the remedial action included the installation of five groundwater screening points and the collection of groundwater samples. The October 1997 remedial activities revealed elevated levels of PCE, TCE and 1,2- DCE, and vinyl chloride in onsite groundwater and further revealed that the contaminated groundwater plume was migrating off-site. Sampling results indicated that PCE and its degradation products are present at and below the water table along the southern property boundary. The highest concentration of PCE (280 µg/L) was identified just northeast of RM-5 and south of RM-1 at groundwater screening point GW-4 from 18 to 20 feet bgs. This groundwater investigation did not delineate either the horizontal or vertical extent of contaminants of concern.

In 1998, Fenley & Nichol Environmental installed three shallow monitoring wells and one cluster well. The shallow monitoring wells are screened across the water table, and the cluster well is screened at 20 to 22, 40 to 42, 60 to 62, 80 to 82, and 98 to 100 feet bgs. Subsequent rounds of groundwater sampling identified PCE at elevated concentrations at MW-2, MW-3, and at the 20-22 foot interval at the cluster well. TCE and cis-1,2-DCE were identified at elevated concentrations at MW-3 and at trace concentrations at the 40-42 and 60-62 foot intervals at the cluster well.

In 1999 Fenley & Nichol Environmental installed three additional groundwater screening points around MW-3. Groundwater samples were collected at each point from 16-20, 26-30, 36-40, 46-50, 56-60, and 66-70 feet bgs. Elevated concentrations of PCE, TCE, cis-1,2-DCE, methylene chloride, and some vinyl chloride (in GP-3) were detected during this investigation. The highest levels of contaminants observed occurred at GP-3, which is north of MW-3. In general, concentrations were highest towards the shallower intervals, with a maximum PCE concentration of 1720 µg/L at 16-20 feet bgs.

On May 12 and 13, 2004, the New York State Department of Health (NYSDOH) collected air samples to evaluate whether past improper disposal of waste materials at Villa Cleaners had impacted the indoor air quality at an adjacent property to the subject site, Crazy Billy's Liquor Store. Two samples were collected: one sample from

the first floor and one from the basement using passive organic vapor monitoring badges and analyzed for PCE. Laboratory analysis did not detect PCE at concentrations greater than 5 µg/m³, which is the laboratory detection limit.

On May 12 and 13, 2004, the NYSDOH also collected air samples from the Italian Import Deli. Two samples were collected: one sample from the front room and the other from the rear kitchen storage area using passive organic vapor monitoring badges and analyzed for PCE. Laboratory analysis detected PCE at a concentration of 6 mcg/ m³, which is within the range of background levels typically found in indoor environments that are not affected by a spill or other significant sources of contamination.

The site presents an environmental threat due to the ongoing releases from source areas, and a significant health threat because several public water supply wells exist within 1.5 miles of the site. In addition, the potential for vapor intrusion in structures near contaminated soil and groundwater exists.

Although some remediation of the soils was done, further investigation and evaluation is needed to determine the nature and extent of the contamination associated with the site and evaluate potential exposure pathways.

1.3 Environmental Setting

The site consists of a 1-story multi-tenant commercial building, which was built in 1965. Villa Cleaners is located in the northern portion of the building and has been historically operated as a dry cleaner from the 1960s. The property is located along the east side of Deer Park Avenue, which is a busy 4-lane road. An asphalt parking area is located in the western and southern portions of the property. There are five (5) sanitary leaching pool structures located at the western portion of the property and are designated as RM-1 through RM-5. Cesspools CP-1 through CP-4 are located along the western portion of the building. Cesspool CP-5 is located northeast of the subject property. A total of eight (8) storm drains and three (3) septic tanks are located at the site. The septic tanks have been designated as S-1 through S-3. According to information received from the client, Mr. John Gennaro, the building is not connected to the public sanitary sewer system. The building utilizes the onsite septic tanks and sanitary leaching pools for its sanitary purposes.

The vicinity of the property consists of industrial and commercial properties. The Long Island Railroad is located to the north of the property on a berm approximately twelve (12) feet above the property grade. The adjacent properties to the south consist of a 1-story commercial establishment and an asphalt parking lot for another 1-story commercial establishment, followed by the front lawn of a public school administration building.

1.3.1 Geology

Long Island consists of a wedge-shaped mass of unconsolidated deposits that overlie ancient basement rock. The thickness of these deposits ranges from approximately 100

feet on the Island's north shore, to approximately 2,000 feet in some portions of the south shore. These deposits contain groundwater that is the sole source of drinking water for the Island's residents. The 1990 U.S. census indicates that Nassau and Suffolk Counties have a combined population of approximately 2.6 million residents. The major landforms of Long Island of importance to the hydrologic system are the moraines and outwash plains, which originated from glacial activity. The moraines represent the farthest extent of the glacial advances and consists of till, which is a poorly sorted mixture of sand, silt, clay, gravel and boulders. The till is poorly to moderately permeable in most areas. Outwash plains are located to the south of the moraines. The outwash plains were formed by the action of glacial meltwater streams, which eroded the headland material of the moraines and laid down deposits of well-sorted sands, silts and gravels.

These outwash deposits are moderately to highly permeable.

The Upper Glacial Aquifer is the uppermost hydrogeologic unit. This aquifer encompasses the moraine and outwash deposits, in addition to some localized lacustrine, marine and reworked materials. A relatively high horizontal hydraulic conductivity and a low vertical hydraulic conductivity characterize the outwash plain portion of this unit. Since the water table is situated in the Upper Glacial Aquifer, the water quality has been degraded in many areas due to industrial activities.

The Magothy Formation directly underlies the Upper Glacial Aquifer in the vicinity of the site. This formation is a Cretaceous coastal-shelf deposit, which consists principally of layers of sand and gravel with some interbedded clay. This formation ranges from poorly to highly permeable. A clay layer in some parts of Long Island confines the uppermost portion of the aquifer. The Magothy is Long Island's principal aquifer for public water supply. In the vicinity of the site, the estimated depth to the top of the Magothy Formation is 175 feet below ground surface (minus 100 feet mean sea level). The United States Environmental Protection Agency has classified the Long Island aquifer system as a sole source aquifer.

The Raritan Formation is the deepest unit and rests directly above the bedrock units. This formation is comprised of a sand member (Lloyd Aquifer) and a clay member (Raritan Day). The Lloyd Aquifer extends southward from Flushing Bay to the Atlantic Ocean. The thickness of the sand member increases toward the southeast and its upper surface ranges in depth from 200 to 800 feet below sea level (from northwest to southeast). • In the vicinity of the site, the depth to the top of the Lloyd Aquifer is approximately 1,075 feet (minus 1,000 feet mean sea level). The Raritan Clay acts as an aquitard confining the lower Lloyd aquifer between the clay and the underlying bedrock.

1.3.2 Hydrogeology

The topographic elevation of the site is approximately 75 feet above sea level (*USGS 71-6 Minute Topographic Map/ Greenlawn New York Quadrangle/ 196~ Photorevised 1979*). The depth to groundwater beneath the site is approximately 16 feet below ground surface. The groundwater flow direction beneath the site, as determined from previous on-site investigations, is toward the south-southeast.

Section 2

Scope of Work

2.1 Task 1 - Site Visit and Work Plan Development

A site visit was conducted on August 20, 2008. During this visit, the scope of work was revised and potential investigation locations were selected with NYSDEC. The information obtained during the site visit was incorporated into the Work Plan.

This task includes the following items:

- Site visit and scoping meeting
- Review background documents
- Prepare a draft Work Plan letter
- Project costing and preparation of 2.11 costing sheets
- M/WBE Plan development
- Subcontracting for data validation, analytical laboratory, mobile laboratory, drilling services, Geoprobe® services, investigation derived waste removal, surveyor, and geophysical surveyor
- Prepare a site specific Health and Safety Plan (HASP)
- Prepare a site specific Community Air Monitoring Plan
- Prepare a draft Work Plan, complete with figures and tables
- Prepare a final Work Plan
- Technical review
- Program Management review

This Work Plan references procedures detailed in the CDM Generic Quality Assurance Project Plan (QAPP) dated July 2007, which has been provided to NYSDEC for Contract Number D-004437-32. The Generic QAPP presents methods that will be used to collect field data including project samples, and focuses on the analytical methods and quality assurance/quality control (QA/QC) procedures that will be used to analyze project samples, ensure the data are of known and acceptable quality, and manage the resultant data.

This Work Plan also includes a site-specific Health HASP presented in Appendix A. The HASP describes the site-specific health and safety procedures to be followed during field activities.

2.2 Task 3 - Citizen Participation

This task includes the following items:

- Attending and providing necessary support for a public information meeting. CDM assumes one person will attend one public information meeting. Support may include providing slides, tables or oversized versions of drawings presented in the Remedial Investigation Report
- Preparation of fact sheets
- Assisting with the recording and response to significant comments

These tasks will be carried out as per the Citizen Participation in New York's Hazardous Waste Site Remediation Program Guidebook

2.3 Task 3 - Mobilization and Demobilization

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

Drilling cuttings will be contained in 55-gallon drums and purge water will be contained in a 5,000 gallon tank. CDM assumes that NYSDEC will be responsible for finding a location to stage the drums and the 5,000 tank. Upon completion of the field program, CDM will sample the drums, and the contents of the tank, and the results will be sent to NYSDEC. NYSDEC will determine if the wastes are hazardous or non-hazardous and will obtain an EPA waste ID number if the material must be disposed of off-Site. NYSDEC will issue a Hazardous Waste Determination Letter for IDW, and then an IDW Subcontractor will remove drums or roll-offs of contaminated soil from the Site, as necessary.

In summary, mobilization and demobilization activities will include the following:

- Ordering, receiving and staging equipment (groundwater screening and monitoring well installation)
- Location mark out
- Collecting IDW samples (assume 9 composite samples from drums and 1 composite sample from the tank)
- Oversight of IDW subcontractor removing roll-offs and purge water
- Oversight of the survey subcontractor for locating the monitoring wells and groundwater screening locations.
- Demobilize equipment

2.4 Task 4 - Remedial Investigation

The primary purpose of the Remedial Investigation (RI) is to delineate the vertical and horizontal extent of the groundwater plume in the upper Glacial Aquifer. The remedial investigation will include the following activities:

- Surface geophysics to locate the existing well and utilities
- Lithologic sampling and groundwater screening consisting of 17 locations along 5 transects oriented perpendicular to groundwater flow
- Installation and development of 6 new monitoring wells
- Redevelopment and sampling of 4 existing wells (three conventional wells and 1 cluster well (5 ports) for VOCs
- Sampling of 6 new and 4 existing monitoring wells for VOCs and MNA parameters
- Community Air Monitoring

2.4.1 Geophysical survey and redevelopment of existing wells

The existing monitoring wells were installed in 1998 and have since been paved over with asphalt. CDM will use surface geophysical techniques to attempt to locate the existing wells. The geophysical survey will also locate underground utilities in at the proposed drilling locations. CDM will redevelop and sample the four exiting monitoring wells that will be sampled during this RI. Well development will be conducted in general accordance with the Generic QAPP, Section 3.16.

If the existing wells are not located, the monitoring well sampling will be reduced by the corresponding number of wells.

2.4.2 Lithologic Sampling and Groundwater Screening

This task includes groundwater screening sampling. Five transects will be located perpendicular to the plume. The first transect will be located upgradient of the source area, with the remaining four transects progressing downgradient. **Figure 3** shows the layout of transects. Transect locations were developed in concurrence with NYSDEC.

Seventeen groundwater screening locations will be conducted using a direct push rig. Lithologic samples will be collected from ground surface to Geoprobe® refusal (assumed to be encountered at 90 feet). Soil samples will be collected in areas of elevated PID readings, with a preference given to locations closer to the potential source areas. Up to 35 soil samples will be collected for VOC analysis by method OCL03.2 or equivalent. Groundwater screening samples will be collected for VOC analysis by method OLC03.2 at 10-foot intervals from 90 feet bgs and back up to the water table (approximately 16 feet bgs), so CDM assumes 8 samples per boring, for a

maximum of 136 samples. Borings will be backfilled with a bentonite slurry. The detailed groundwater sampling procedure is provided in Section 3.6 of the Generic QAPP.

Upon completion of the sampling, the sample tubing will be removed. The groundwater screening locations will be backfilled with bentonite and marked with a stake/flag which shall be labeled with the proper sample identification and shall be illustrated on the Site map so that it can be located at a later date.

The groundwater and soil samples will be analyzed for VOCs with a 12-hour turn-around time by a mobile laboratory by EPA Method OLC03.2 or equivalent.

CDM assumes that all access agreements will be arranged by NYSDEC. CDM will contact the property owners and schedule the sampling events.

2.4.3 Monitoring Well Installation

Following the groundwater screening survey, six permanent monitoring wells will be installed. For budgeting purposes, it is assumed that three of the wells will be installed to 90 feet bgs. The remaining three wells will be installed to 175 feet bgs and screened above the Gardner's Clay. Figure 3 shows the proposed monitoring well locations.

For budgetary purposes, it is assumed that the monitoring wells will be constructed of two-inch diameter Schedule 40 PVC machine-slot screen and Schedule 40 PVC casing for groundwater sampling and monitoring purposes. If gross contamination (evidence of dense non-aqueous phase liquid (DNAPL)) is found, it may be necessary to construct one or more monitoring wells of stainless steel. Drilling and sampling will be conducted in accordance with the Generic QAPP, Section 3.14 through 3.16.

At the three deep wells, split spoon soil samples will be collected at five foot intervals from 90 feet bgs the top of the clay (estimates at 175 feet bgs) to characterize stratigraphy and screen the deeper soils for evidence of VOCs in the field. Split spoon sampling beneath the water table may require the use of drilling mud inside the augers to prevent running sands. If drilling mud is used, it will be flushed out of the augers with water prior to setting the well. The CDM geologist will record the characteristics of each split spoon sample, including lithology, moisture and evidence of contamination (PID headspace readings).

Final well depths and screen settings will be based upon lithology, PID headspace readings, available groundwater profiling data and other pertinent factors. The wells will be developed after installation and will be allowed to stabilize for at least two weeks prior to sampling.

Two PIDs and one particulate monitor with data logging capability will be present and active at the Site at all times during the drilling activities to satisfy the requirements of the NYSDOH generic Community Air Monitoring Plan (CAMP).

2.4.4 Groundwater sampling

CDM will conduct one round of groundwater sampling at the newly installed monitoring wells and four existing wells, for a total of 10 wells with 14 sample ports. The wells will be sampled for VOCs by method OLC03.2 and monitored natural attenuation (MNA) parameters, including nitrate/nitrite, ferrous iron, sulfate, chloride, alkalinity, total organic carbon, and methane, ethane, ethene (MEE). **Table 1** lists the sample methods and QA/QC requirements. The wells will be sampled via the EPA Low Flow sampling protocol. Water quality parameters will be recorded during purging.

Groundwater sampling will be conducted in general accordance with Generic QAPP, Section 3.17.

2.4.5 Investigative Derived Waste

Soil cuttings and purge water from each sampling location will be containerized in drums, tanks, or other appropriate vessels and disposed of off-site if they cannot be released to the ground surface. IDW may be released to the ground surface if the following conditions are met: 1) the area is non-residential; 2) liquids can percolate into the ground and 3) field indicators (visual, olfactory, PID readings) do not indicate the material is contaminated.

It is assumed that approximately 150 drums of non-hazardous soil and non-hazardous drilling mud will require off-Site disposal. Well development and purge water is estimated at 10,000 gallons. IDW containers will be stored on-site at a location determined by NYSDEC until it is characterized and can be removed by a licensed waste hauler.

2.4.6 Decontamination Procedures

Non-dedicated equipment and tools used to collect samples for chemical analysis will be decontaminated prior to and between collection of each sample using an Alconox® wash and potable water rinse prior to reuse. Additional cleaning of the equipment with steam may be needed under some circumstances. Decontamination fluids will either be contained or discharged to the ground surface, using the same criteria set forth in Section 2.5.5. Decontamination fluids will be disposed of off-site by a licensed transportation and disposal services firm.

2.5 Task 5 – Remedial Investigation Report

2.5.1 Field Documentation Procedures

Field notebooks will be used during all on-site work. A dedicated field notebook will be maintained by the field technician overseeing the Site activities. In addition to the notebook, any and all original sampling forms, and purge forms used during the field activities, will be submitted to the NYSDEC as part of the final report. Field and sampling procedures, including installation of the sample boreholes, existing monitoring wells, etc., will be photo-documented.

2.5.2 Sample Identification

Each sample collected will be designated by an alphanumeric code that will identify the type of sampling and the specific sample designation (identifier). Each sample shall begin with the NYSDEC Site Number for the Pride Solvent and Chemical site (152025). The following terminology shall be used for the samples collected during this investigation:

Groundwater Screening: 152188-GWS-(Location)-(Interval), e.g. sample collected from 20-24 feet bgs at groundwater screening point GWS-01 would be 152188-GWS-01-20-24

Groundwater: 152188-Monitoring Well ID-GW-(Date)

Field Blanks: 152188-FB-(Date)

Trip Blanks: 152188-TB-(Date)

2.5.3 Remedial Investigation Report

This task includes the effort to reduce, tabulate, and evaluate the data collected during the field activities, create lithologic logs monitoring wells and groundwater screening locations, develop report graphics and write and assemble the RI Report.

A total of four copies of a draft RI report will be submitted by CDM that documents the work conducted and presents the results of the sample analysis for review and comment by NYSDEC and NYSDOH. CDM shall revise the draft RI report and print the requested number of copies based on receipt of the comment letter. One copy of the final RI report; text, tables, maps, photos, etc., will be submitted as a single .pdf file. All electronic files will be submitted to NYSDEC on a compact disc. The site investigation data will be submitted in the most recent version of the NYSDEC Electronic Data Deliverable (EDD) with the final report submission. Currently, this is the USEPA Region 2 EDD dated December 2003.

2.5.4 Laboratory Analysis and Validation

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

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

2.6 Task 6 – Feasibility Study Report

Under this task, alternatives will be developed and screened qualitatively against three criteria: effectiveness, implementability, and relative cost. A range of alternatives will be developed that consider both standard and innovative remedial technologies for treatment of soils, vapors and groundwater contaminated with chlorinated solvents.

CDM currently anticipates that the following alternatives will be evaluated:

Groundwater

- No Action
- Groundwater treatment with air stripping, granular activated carbon, chemical/ultraviolet oxidation, permeable reactive barriers (PRB), and/or anaerobic biological reactors
- Monitored natural attenuation

Soil

- No Action
- Soil vapor extraction
- Excavation and off-site disposal
- Excavation, stabilization, and on-site disposal

Indoor Air

- No Action
- Installation of sub-slab extraction systems.

A total of four copies of a draft Feasibility Study (FS) Report documenting the work conducted and presenting the results of the sample analysis will be submitted by CDM to NYSDEC and NYSDOH for review and comments. CDM shall revise the draft FS Report and print the requested number of copies based on receipt of the comment letter. One copy of the final FS Report; text, tables, maps, photos, etc., will be submitted as a single .pdf file. All electronic files will be submitted to NYSDEC on a compact disc. The site investigation data will be submitted in the most recent version of the NYSDEC Electronic Data Deliverable (EDD) with the final report submission. Currently this is the USEPA Region 2 EDD dated December 2003.

Section 3

Project Schedule

The following tabulation provides the proposed project schedule and key milestones for this work assignment. As currently planned, field work will be initiated within two weeks of written receipt of final work plan approval. Field activity duration for the soil vapor intrusion investigation activities is estimated to be one week assuming no delays are experienced due to inclement weather, Site access problems, or for other unforeseen reason

The scheduled submittal dates for deliverables are based on standard laboratory turnaround times of four weeks, and turnaround for data validation of three weeks.

Project Milestone	Date
Issue Work Assignment (WA)	July 23,2008
Work Assignment Acceptance	July 25, 2008
Submit Task 1 Draft Work Plan Letter	August 26, 2008
DEC Comment on Draft Work Plan	Sept 2, 2008
Submit Task 1 Draft Work Plan Deliverable	September 5, 2008
Notice to Proceed (NTP)	September 19, 2008
Task 2 Citizen Participation	Summer 2009
Task 3 – Field Mobilization	October 5, 2008
Commence Task 4 – Field Investigation	October 12, 2008
Complete Task 4 Groundwater Screening	November 17, 2008
Commence Task 4 – Well Installation and groundwater sampling	March 30, 2009
Complete Task 4	May 29, 2008
Task 5 – Draft Remedial Investigation Report	August 21, 2009
DEC/DOH Comment on Draft RI Report	September 18, 2009
Task 5 – Final RI Report	October 2, 2009
Task 6 – Draft Feasibility Study Report	October 30, 2009
DEC/DOH Comment on Draft FS Report	November 25, 2009
Task 6 – Final FS Report	December 9, 2009

Section 4

Budget Estimates

Estimated Budget and Level of Effort (LOE) Summary

Pride Solvents & Chemical Company

Babylon, New York

Site No. 1-52-188

Task Items	Description/Cost	Dollars
1	Work Plan Development	\$28,700
2	Citizen Participation	\$4,786
3	Mobilization and Demobilization	\$49,087
4	Site Investigation	\$481,905
5	Remedial Investigation Report	\$64,779
6	Feasibility Study Report	\$37,794
	<u>Total Estimate Budget (Tasks 1 - 6)</u>	\$667,052

Appendix B presents the detailed costs by task and subtask on the NYSDEC schedule 2.11.

General Assumptions:

- Field work will be performed in Fall 2008 and Spring 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.
- CDM will provide one hard copy by mail and one electronic file (pdf) by e-mail for each report submitted to the NYSDEC, unless otherwise specified above.

Task 1 - Work Plan Development:

- Only one round of comments received concurrently is anticipated on draft deliverables. The review comments will be consolidated by NYSDEC. It is assumed that comments are minimal in nature and no re-evaluation is required.
- Project management, subcontractor procurement, scheduling, budgeting, administrative activities are included in this task.

- The Work Plan should include the description of the major tasks and sub-tasks to be performed including pertinent information to conduct field activities, potential areas of concern, analytical methods and sampling methods, a staffing plan identifying key and technical staff, identification of areas of subcontracting, work assignment budget, and a Site specific Health and Safety Plan.
- A Site-specific Quality Assurance Project Plan (QAPP) will not be required for this project. All of the relevant procedures for the project are detailed in CDM's July 2007 Generic QAPP

Task 2 - Citizen Participation:

- CDM assumes that the PM will attend the public meeting.
- CDM assumes that any materials necessary for the public meeting will be taken directly from the Data Tabulation and Evaluation Memorandum, Remedial Investigation Report or Feasibility Study and that no new documents or figures will be generated.

Task 3 - Mobilization and Demobilization:

- CDM assumes there will be one mobilization and one demobilization event.
- It is assumed that surveying of all points will require one day of CDM oversight.
- It is assumed that IDW removal will require one day of CDM oversight.

Task 4 - Site Investigation:

- A notice to proceed must be received at least one week prior to mobilization.
- NYSDEC will provide access to all sampling and drilling locations.
- Drilling, direct push, analytical, surveying and validation services will be subcontracted.
- CDM will provide oversight during field activities, collect samples and maintain sample chain-of-custody.
- CDM assumes that NYSDEC will arrange for a staging area where the decontamination pad, IDW and materials can be located.
- No schedule delays are assumed due to inclement weather or equipment failure.
- Delays due to the Site owner or public are not assumed.
- One direct push rig mobilization is expected

- One drilling rig mobilization is expected
- It is assumed that no subsurface soil samples will be collected for laboratory analysis during the investigation.
- CDM assumes that all material and equipment staged in access areas will be removed to allow easy access to all sampling locations by the drilling equipment.

Task 5 - Remedial Investigation Report:

- Only conference calls are anticipated to be necessary for this phase. Meetings are not assumed to be required for this task.
- Only one round of comments received concurrently is anticipated on draft deliverables. The review comments will be consolidated by NYSDEC. It is assumed that comments are minimal in nature and no re-evaluation is required. It is assumed that all comments can be addressed within 12 hours.

Task 6 - Feasibility Study Report:

- Only conference calls are anticipated to be necessary for this phase. Meetings are not assumed to be required for this task.
- Only one round of comments received concurrently is anticipated on draft deliverables. The review comments will be consolidated by NYSDEC. It is assumed that comments are minimal in nature and no re-evaluation is required. It is assumed that all comments can be addressed within 12 hours.

Section 5

Staffing Plan

This project management organization for this project is intended to provide a clear delineation of functional responsibility and authority.

5.1 Program Manager – Michael A. Memoli, P.E., DEE

The primary responsibilities for program management activities rest with the Program Manager (PRM). The Program Manager, Mr. Memoli, will have ultimate contract responsibility for the project, including responsibility for the technical content of all engineering work. Mr. Memoli will direct, review, and approve all project deliverables, schedule staff and resources, resolve scheduling conflicts and identify and solve potential program problems. He will be directly accountable to NYSDEC's Division of Hazardous Waste Remediation for program execution. He has authority to assign staff, negotiate and execute contracts and amendments, as well as execute subcontracts. The PRM will communicate directly with CDM's Project Manager.

5.2 Project Manager – Seth Kellogg, P.G.

The Project Manager, Ms. Seth Kellogg, will have the overall responsibility for the technical and financial aspects of this project. She will assign technical staff, maintain control of the project budget and schedule, prepare monthly progress reports, review and approve project invoices, evaluate the technical quality of the project deliverables as well as the adherence to QA/QC procedures, and manage subcontractors. She will serve as CDM's point of contact for this project.

5.3 Program Quality Assurance Manager – Jeniffer M. Oxford

The Program Quality Assurance Officer, Ms. Jeniffer Oxford, will monitor QC activities of program management and technical staff, as well as identify and report needs of corrective action to the Program Manager. She will also conduct an internal review of all project deliverables prepared by CDM staff and sign off on the final investigation reports.

5.4 Health and Safety Officer – Christopher S. Marlowe, C.I.H., Q.E.P

The Program Health and Safety Officer, Mr. Chris Marlowe, will review and make recommendations to the Subcontractors on health and safety plans for compliance with OSHA requirements. He will develop a Health and Safety plan for CDM and NYSDEC employees, handle over-sight activities, evaluate the performance of health and safety officers and maintain required health and safety records. He will report directly to the Program Manager.

5.5 Project Geologist – Cristina Ramacciotti

Ms. Cristina Ramacciotti will be the project geologist. Her role will include providing direction on drilling, groundwater profiling, and related activities to the field manager, as well as interpreting field characterization data and reporting. She is directly accountable to the Project Manager. Ms. Ramacciotti brings extensive experience in the collection and interpretation of hydrogeologic data, as she has worked extensively in the Atlantic Coastal Plain environment and glacial sediments.

5.6 Field Manager/Health and Safety Site Supervisor/Coordinator – Frank Robinson

The Field Manager, Mr. Frank Robinson, will be responsible for overseeing and coordinating field activities. This will include, but is not limited to the following: overseeing sampling activities, coordinating drilling and Geoprobe® work, coordinating work with other subcontractors and monitoring health and safety conditions in accordance with the approved Health and Safety Plan. He is directly accountable to the Project Manager.

As the Health and Safety Site Supervisor/Coordinator, Mr. Robinson will be responsible for ensuring that the Health and Safety Plan is implemented during field activities and that a copy of the site-specific Health and Safety Plan is maintained at the Site at all times. He will also be responsible for upgrading or downgrading the level of personnel protection based on actual conditions at the time of the investigation. The Coordinator must also present an overview of the Health and Safety Plan to field personnel prior to their initiating any field activities; he will be responsible for insuring that field personnel sign off on this plan. The Coordinator will contact the Program Health and Safety Officer, if any questions or issues arise during the field activities that he cannot answer.

Section 6

Subcontracting

Appendix C presents a comparison of quotes from various subcontractors. CDM proposes to engage subcontractors to provide the following services for this work assignment:

6.1 Direct Push Drilling – Zebra Environmental.

At this time, CDM is proposing to use Zebra Environmental to perform the direct push work. They are located in Lynbrook, New York.

6.2 Analytical Laboratory – Mitkem

At this time, CDM is proposing to use Mitkem as the analytical laboratory subcontractor. They are located in Warwick, Rhode Island.

6.3 Monitoring Well Installation – Advanced Drilling

At this time, CDM is proposing to use Advanced as the drilling subcontractor. They are located in Pittstown, New Jersey

6.4 Data Validation – Nancy Potak

At this time, CDM is proposing to use Nancy Potak (WBE) as the data validation subcontractor. She is located in Greensboro, Vermont.

6.5 M/WBE Reporting – Kenneth Shider

At this time, CDM is proposing to utilize Ken Shider (M/WBE consultant) to prepare the quarterly M/WBE reports that are required by NYSDEC.

6.6 IDW Disposal – SeaCoast Environmental Services, Inc.

At this time, CDM is proposing to utilize SeaCoast Environmental Services, Inc. as the IDW disposal subcontractor, should one be needed. They are located at 716 Newman Springs Rd, PMB 292 Lincroft, New Jersey 07738

6.7 Topographic Survey – Bryant Associates P.C.

At this time, CDM is proposing to use Bryant Associates, P.C. as the survey subcontractor for the Saugerties Former MGP Site topographic survey. They are located at 108 West Jefferson Street, Syracuse, NY 13202.

Section 7

MBE/WBE Utilization Plan

To meet the requirements of the MBE/WBE program, CDM has prepared the following utilization plan:

Total Dollar Value of the work assignment	\$667,052
MBE Percentage Goal	15%
MBE Dollar Value Goal	\$100,057
WBE Percentage Goal	5%
WBE Dollar Value Goal	\$33,352
Combined MBE/WBE Percentage Goal	20%
Combined MBE/WBE Dollar Value Goal	\$133,410

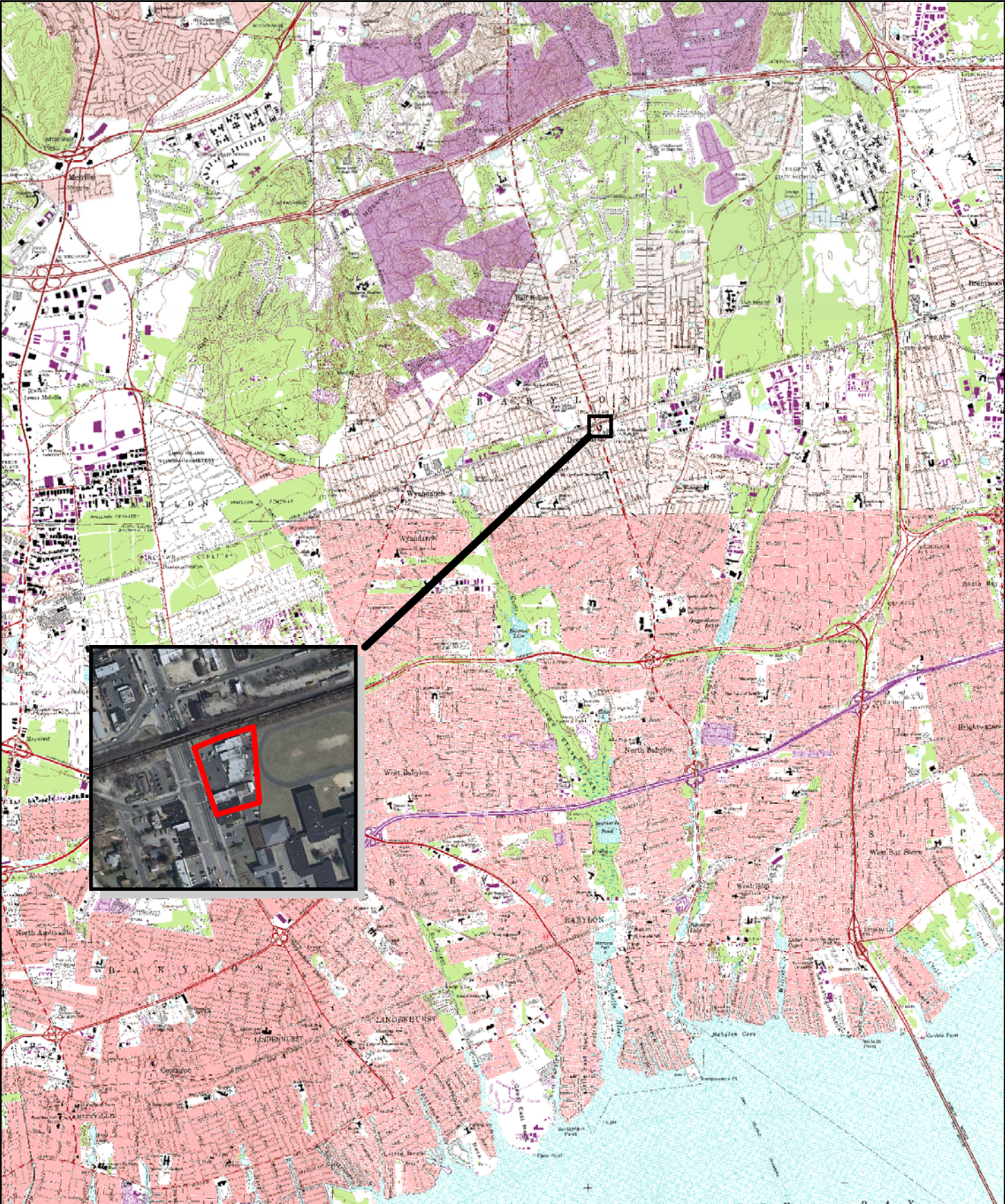
Minority and woman-owned firms are expected to participate as follows:

Services to be Provided	Description of Services	Subcontractor Name and Contact Information	Proposed Subcontract Price
WBE - Drilling Services	Monitoring Well Installation	Delta Well	\$84,928
WBE - Data Validation	Data Validation	Nancy Potak	\$4,583
M/WBE Quarterly Reports	M/WBE Quarterly Reports	Kenneth Shider (518) 269-2207	\$1,800
MBE - Topographic Survey	Sampling point and monitoring well location	Bryant Associates P.C.	\$10,328
		TOTAL	\$101,639


Acronyms

amsl	above mean sea level
ASP	Analytical Services Protocol
bgs	below ground surface
CAMP	Community Air Monitoring Plan
CPP	Citizen Participation Plan
CDM	Camp, Dresser, and McKee, Inc.
DCE	dichloroethene
DNAPL	dense non-aqueous phase liquid
DUSR	data usability summary report
EDD	electronic data deliverable
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
ERM	Environmental Resources Management
ft/day	feet per day
FS	feasibility study
GPS	global positioning system
HASP	health and safety plan
IDW	investigation derived waste
MEE	methane, ethane, ethene
mg/L	micrograms per liter
mL/g	milliliter per gram
MNA	monitored natural attenuation
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethylene
PID	photoionization detector
ppb	parts per billion
PRB	permeable reactive barrier
PVC	polyvinyl chloride
QA/QC	quality control/quality assurance
QAPP	quality assurance project plan
RI	remedial investigation
SVOCs	semi-volatile organic compounds
TCE	trichloroethylene
TAT	turn-around time
TSD	treatment, storage, and disposal
μ/L	micrograms per liter
USGS	United States Geological Survey
UST	underground storage tank
UV	ultraviolet
VOCs	volatile organic compounds
WA	Work Assignment

Figures



Legend

 Site Boundary

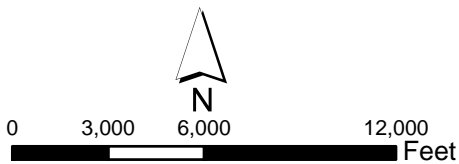
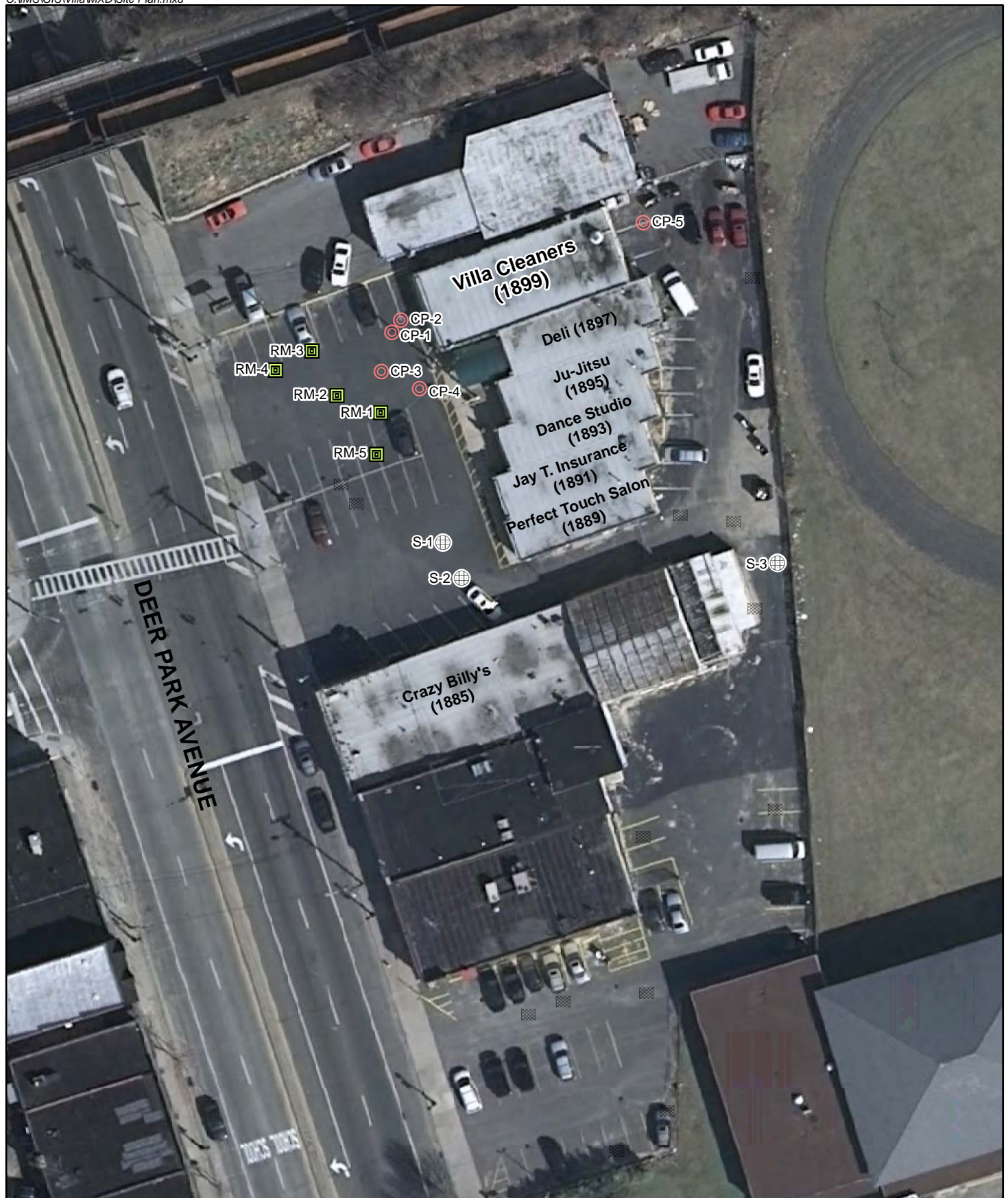


Figure 1
Site Location
Villa Cleaners
Babylon, New York



Legend

Site Features

- Cesspool
- Leaching Pool
- ⊕ Sewer Access
- ▨ Storm Drain

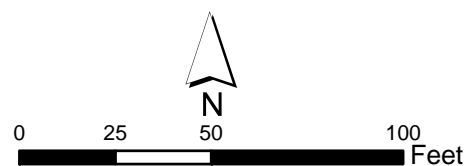


Figure 2
Site Plan
Villa Cleaners
Babylon, New York



Legend

Historical Samples

- Monitoring Well
- Cluster Well
- Groundwater Screening
- ▲ Groundwater Soil Boring

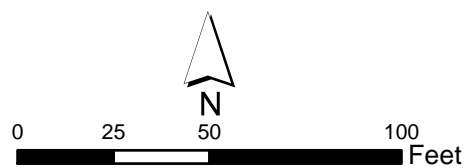


Figure 3
Historical sample Locations
Villa Cleaners
Babylon, New York



Legend

- | | |
|----------------------------------|---------------|
| Monitoring Well | Cesspool |
| Groundwater Screening | Leaching Pool |
| Proposed GW Screening Point | Sewer Access |
| Proposed Deep Monitoring Well | Storm Drain |
| Proposed Shallow Monitoring Well | |

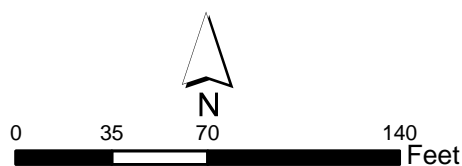


Figure 4
Proposed Locations
Villa Cleaners
Babylon, New York

Table

Table 1
Analytical Sample Summary
Villa Dry Cleaners
Babylon, New York

Event	Sample Type	Sample Count	Analysis	Method	Comment
Groundwater Screening and Soil Sampling with Mobile Laboratory					
Aqueous					
	Environmental	136	VOC	EPA SOW OLM03.2	17 locations with 8 samples per location
	Duplicate	7	VOC	EPA SOW OLM03.2	7 duplicates (1 per 20 samples)
	Field Blank	5	VOC	EPA SOW OLM03.2	5 field blanks (1 per roll of tubing)
	Trip Blank	26	VOC	EPA SOW OLM03.2	26 (1 per day)
	MS/MDS	14	VOC	EPA SOW OLM03.2	7 MS/MSDs (1 per 20 samples)
Soils					
	Environmental	51	VOC	EPA SOW OLM03.2	17 locations with 3 samples per location
	Duplicate	3	VOC	EPA SOW OLM03.2	3 duplicates (1 per 20 samples)
	Field Blank	26	VOC	EPA SOW OLM03.2	26 field blanks (1 per decon event)
	Trip Blank	26	VOC	EPA SOW OLM03.2	26 (1 per day)
	MS/MDS	6	VOC	EPA SOW OLM03.2	3 MS/MSDs (1 per 20 samples)
Monitoring Well Sampling					
	Environmental	22	LDL VOCs	EPA SOW OLC03.2	Round 1 - 3 monitoring wells and 1 cluster well (8 samples) (VOCs only) Round 2 - 6 new wells, 3 monitoring wells and 1 cluster well (14 samples)
		14	¹ Nitrate/Nitrite	353.2	
		14	Sulfate	375.4	
		14	Chloride	325.3	
		14	Alkalinity	310.1	
		14	Total organic carbon	EPA 415.1/415.2	
		14	Methane, ethane, ethene	RSK 175	
	Duplicate	2	TCL VOCs	EPA SOW OLC03.2	2 duplicates (1 per 20 samples)
		2	¹ Nitrate/Nitrite	353.2	
		2	Sulfate	375.4	
		2	Chloride	325.3	
		2	Alkalinity	310.1	
		2	Total organic carbon	EPA 415.1/415.2	
		2	Methane, ethane, ethene	RSK 175	
	Field Blank	6	LDL VOCs	EPA SOW OLC03.2	1 field blank per day for 6 days
		6	¹ Nitrate/Nitrite	353.2	
		6	Sulfate	375.4	
		6	Chloride	325.3	
		6	Alkalinity	310.1	
		6	Total organic carbon	EPA 415.1/415.2	
		6	Methane, ethane, ethene	RSK 175	

Table 1
Analytical Sample Summary
Villa Dry Cleaners
Babylon, New York

Event	Sample Type	Sample Count	Analysis	Method	Comment
	Trip Blank	6	LDL VOCs	EPA SOW OLC03.2	1 trip blank per day for 6 days
		6	Methane, ethane, ethene	RSK 175	
	MS/MDS	4	LDL VOCs	EPA SOW OLC03.2	2 MS/MSDs (1 per 20 samples)
		4	Methane, ethane, ethene	RSK 175	
Soil Sampling					
	Environmental	9	TCL VOCs	EPA SOW OLC03.2	3 samples per deep well location (9)
	Duplicate	1	TCL VOCs	EPA SOW OLC03.2	1 duplicate (1 per 20)
	Field Blank	9	TCL VOCs	EPA SOW OLC03.2	1 field blank per day for 9 days
	Trip Blank	9	TCL VOCs	EPA SOW OLC03.2	1 trip blank per day for 9 days
	MS/MDS	2	TCL VOCs	EPA SOW OLC03.2	1 MS/MSD (1 per 20 samples)
IDW Sampling					
	Characterization	6	Full TCLP		2 aqueous samples from the water tank and 2 samples from each roll-off
		6	RCRA characteristics (ignitability, corrosivity, reactivity)		
		6	PCB	8082	

Appendix A

Health and Safety Plan

HEALTH AND SAFETY PLAN FORM		<i>This document is for the exclusive use of CDM and its subcontractors</i>		CDM (Camp Dresser & McKee)																															
CDM Health and Safety Program				PROJECT DOCUMENT #: <u>1</u>																															
PROJECT NAME	<u>Villa Cleaners</u>	PROJECT#	<u>0897-66742</u>	REGION	<u>PSG NER</u>																														
SITE ADDRESS	<u>1899 Deer Park Avenue</u> <u>Babylon, Suffolk County, NY 11729</u>	CLIENT ORGANIZATION		<u>NYSDEC</u>																															
		CLIENT CONTACT		<u>Tara Diaz</u>																															
		CLIENT CONTACT PHONE #		<u>518-402-9621</u>																															
<input type="checkbox"/> AMENDMENT TO EXISTING APPROVED H&SP? <input type="checkbox"/> H&SP AMENDMENT NUMBER? _____ <input type="checkbox"/> DATE OF PREVIOUS H&SP APPROVAL _____																																			
OBJECTIVES OF FIELD WORK: (e.g. collect surface soil samples): 1) Geophysical survey including all sampling locations. 2) Geoprobe soil sampling and groundwater screening (at 17 points). 3) Installation (oversight) of 6 new groundwater monitoring wells (soil sampling will be conducted). 4) Groundwater sampling at up to 10 new and existing wells. 5) Site survey. 6) IDW handling and removal oversight.		SITE TYPE: <i>Check as many as applicable</i> <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">Active</td> <td style="width: 10%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 20%;">Landfill</td> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> <td style="width: 20%;">Unknown</td> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Inactive</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Uncontrolled</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Military</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Secure</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Industrial</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Other (specify):</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Unsecure</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Recovery</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Commercial</td> <td></td> </tr> <tr> <td>Enclosed space</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Well Field</td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> </tr> </table> All requirements described in the CDM Health and Safety Manual are incorporated in this health and safety plan by reference.				Active	<input checked="" type="checkbox"/>	Landfill	<input type="checkbox"/>	Unknown	<input type="checkbox"/>	Inactive	<input type="checkbox"/>	Uncontrolled	<input checked="" type="checkbox"/>	Military	<input type="checkbox"/>	Secure	<input type="checkbox"/>	Industrial	<input type="checkbox"/>	Other (specify):	<input checked="" type="checkbox"/>	Unsecure	<input checked="" type="checkbox"/>	Recovery	<input type="checkbox"/>	Commercial		Enclosed space	<input type="checkbox"/>	Well Field	<input type="checkbox"/>		
Active	<input checked="" type="checkbox"/>	Landfill	<input type="checkbox"/>	Unknown	<input type="checkbox"/>																														
Inactive	<input type="checkbox"/>	Uncontrolled	<input checked="" type="checkbox"/>	Military	<input type="checkbox"/>																														
Secure	<input type="checkbox"/>	Industrial	<input type="checkbox"/>	Other (specify):	<input checked="" type="checkbox"/>																														
Unsecure	<input checked="" type="checkbox"/>	Recovery	<input type="checkbox"/>	Commercial																															
Enclosed space	<input type="checkbox"/>	Well Field	<input type="checkbox"/>																																
PERSONNEL AND RESPONSIBILITIES		COMPANY or DIVISION	SUPERVISORY TRAINED?	PROJECT OR SITE RESPONSIBILITIES	Tasks On Site?																														
NAMES OF WORK CREW MEMBERS																																			
<u>Cristina Ramacciotti</u>		<u>CDM/EMP</u>	<u>B-S</u>	<u>Work Assignment Manager</u>	<u>1-2-3-4-5-6</u>																														
<u>Edward Kulkusky</u>		<u>CDM/EMP</u>	<u>B-S</u>	<u>Site Health & Safety Coordinator</u>	<u>1-2-3-4-5-6</u>																														
<u>Stefanie Britch</u>		<u>CDM/EMP</u>	<u>B-S</u>	<u>2nd Health & Safety Coordinator</u>	<u>1-2-3-4-5-6</u>																														
<u>Dennis Grove</u>		<u>CDM/EMP</u>	<u>B-S</u>	<u>Site Technician</u>	<u>1-2-3-4-5-6</u>																														
				<u>Subcontractor</u>	<u>1-2-3-4-5-6</u>																														
BACKGROUND REVIEW: <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Incomplete																																			

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 #: 1

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



For Geoprobe and Monitoring Well Installation activities: 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 and will be cordoned off with cones and caution tape. 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. **Cones and caution tape will be used around all work locations, as the area is active and moderately trafficked.**

HEALTH AND SAFETY PLAN FORM CDM Health and Safety Program	<i>This document is for the exclusive use of CDM and its subcontractors</i>	CDM (Camp Dresser & McKee) PROJECT DOCUMENT #: 1												
HISTORY: <i>Summarize conditions that relate to hazard. Include citizen complaints, spills, previous investigations or agency actions, known injuries, etc.</i> <p>The site is an active retail dry cleaning business Vionpa Dry Cleaners, Inc., d/b/a Villa Dry Cleaners, and has been in business since construction. Contamination is reportedly due to former disposal practices and/or releases into the sanitary leaching pools. The Department's records indicate that contamination at the site was confirmed around May 1997 during a Suffolk County Department of Health Services (SCDHS) document records search and inspection of the site, which included sediment sampling from five onsite leaching pools. This search confirmed the disposal of tetrachloroethene (PCE) in two onsite leaching pools, and the investigation found PCE contamination in four of the five on-site subsurface leaching pools. A remedial action was implemented at the site in October 1997 on behalf of the responsible party (report will be made available to the consultant). The remedial action included the removal of liquids and sediments from the four contaminated on-site leaching pools and the sampling of groundwater on and near the site. The October 1997 remedial activities and subsequent groundwater sampling revealed elevated levels of PCE, TCE and cis-1,2- DCE in onsite groundwater and further revealed that the contaminated groundwater plume was migrating off-site. Sampling results indicated PCE and its degradation products at and below the water table along the southern property boundary, with the highest concentration being noted on the western side of the subject property. This groundwater investigation did not delineate either the horizontal or vertical extent of contaminants of concern.</p>														
WASTE TYPES: <input checked="" type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Gas <input type="checkbox"/> Unknown <input type="checkbox"/> Other, specify:														
WASTE CHARACTERISTICS: <i>Check as many as applicable.</i> <input type="checkbox"/> Corrosive <input type="checkbox"/> Flammable <input type="checkbox"/> Radioactive <input type="checkbox"/> Toxic <input checked="" type="checkbox"/> Volatile <input type="checkbox"/> Reactive <input type="checkbox"/> Inert Gas <input type="checkbox"/> Unknown <input type="checkbox"/> Other: _____	WORK ZONES: <p>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 and will be established in the field with cones and caution tape, as the area is very active (vehicular traffic). 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.</p>													
HAZARDS OF CONCERN: <i>Check as many as applicable.</i> <input checked="" type="checkbox"/> Heat Stress CDM Guideline <input checked="" type="checkbox"/> Noise CDM Guideline <input checked="" type="checkbox"/> Cold Stress CDM Guideline <input type="checkbox"/> Inorganic Chemicals <input type="checkbox"/> Explosive/Flammable <input checked="" type="checkbox"/> Organic Chemicals <input type="checkbox"/> Oxygen Deficient <input checked="" type="checkbox"/> Motorized Traffic <input type="checkbox"/> Radiological <input checked="" type="checkbox"/> Heavy Machinery <input type="checkbox"/> Biological <input checked="" type="checkbox"/> Slips & Falls CDM Guideline <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	FACILITY'S PAST AND PRESENT DISPOSAL METHODS AND PRACTICES: <p>Historical reports document the release of VOCs and CVOCs to soil, groundwater, septic systems, and cesspools at the facility.</p>													
This plan incorporates CDM's procedure for: <i>(Click on the relevant topics to download the hazard guideline. Delete irrelevant topics.)</i> <table style="width: 100%; border: none;"> <tr> <td>Housekeeping</td> <td>Traffic and Work Zone Safety</td> <td>Tools and Power Equipment</td> <td>Working Safely Around Geoprobes</td> </tr> <tr> <td>Manual Material Handling</td> <td></td> <td>Working Around Heavy Equipment</td> <td>Hazardous Waste Site Controls</td> </tr> <tr> <td>Electrical Safety</td> <td>Compressed Gases</td> <td>Hazardous Waste Site Decontamination</td> <td>Working Safely Around Drill Rigs</td> </tr> </table>			Housekeeping	Traffic and Work Zone Safety	Tools and Power Equipment	Working Safely Around Geoprobes	Manual Material Handling		Working Around Heavy Equipment	Hazardous Waste Site Controls	Electrical Safety	Compressed Gases	Hazardous Waste Site Decontamination	Working Safely Around Drill Rigs
Housekeeping	Traffic and Work Zone Safety	Tools and Power Equipment	Working Safely Around Geoprobes											
Manual Material Handling		Working Around Heavy Equipment	Hazardous Waste Site Controls											
Electrical Safety	Compressed Gases	Hazardous Waste Site Decontamination	Working Safely Around Drill Rigs											

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 #: 1

DESCRIPTION AND FEATURES:

Include principal operations and unusual features (containers, buildings, dikes, power lines, hillslopes, rivers, etc.)

Villa Dry Cleaners is located at 1899 Deer Park Avenue, in a commercial area in the Hamlet of Deer Park, Town of in Babylon, Suffolk County, New York (site). The building fronts along the east side of Deer Park Avenue and is bound by the Long Island Railroad to the north, approximately 12 feet above property grade. The properties to the south are occupied by a one story commercial business. To the east, the property borders the front lawn of a public school administration building. The site is an active retail dry cleaning business Vionpa Dry Cleaners, Inc., d/b/a Villa Dry Cleaners, and has been in business since construction. Villa is the northernmost tenant of a multi-tenant structure that was constructed in 1965. The parcel is relatively flat and is developed with the building and asphalt-paved parking areas on the western and southern sides. Asphalt on the east side is also present, though it is older and cracked in places. There are several small grassy or dirt areas on the lot. The subject building is not connected to municipal sewer. Sanitary waste is handled by five sanitary leaching pool structures located on the west side of the building and are designated as RM-1 through RM-5. Cesspools CP-1 through CP-4 are also located on the west side of the property, while CP-5 is located on the northeast side. It is possible that other subsurface leaching pools exist at the site. There are a total of eight storm water leaching pools and three septic tanks, known as S-1 through S-3.

SURROUNDING POPULATION:

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

HAZARDOUS MATERIAL SUMMARY:

Highlight or bold waste types and estimate amounts by category.

CHEMICALS: <i>Amount/Units:</i>	SOLIDS: <i>Amount/Units:</i>	SLUDGES: <i>Amount/Units:</i>	SOLVENTS: <i>Amount/Units:</i>	OILS: <i>Amount/Units:</i>	OTHER: <i>Amount/Units:</i>
Acids	Flyash	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	Aluminum	Esters	PCBs	Construction
Phenols	Dioxins		Ethers	Heating Oil	Munitions
Halogens					
Other - <i>specify</i>	Other - <i>specify</i>	Other - <i>specify</i>	Other - <i>specify</i>	Other - <i>specify</i>	Other - <i>specify</i>

HEALTH AND SAFETY PLAN FORM		This document is for the exclusive use of CDM and its subcontractors			CDM (Camp Dresser & McKee) PROJECT DOCUMENT #: 1	
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)	1,720 ug/L in GW 1 ppm in S	25 ppm	150 ppm	47 ppm	Irritated eyes, nose, throat, flushed face & neck, dizziness	9.32
Trichloroethene (TCE)	168 ug/L in GW	50 ppm	1,000 ppm	82 ppm	Vertigo, visual disturbance, headache, drowsiness	9.45
1,2-Dichloroethene (1,2-DCE)	826 ug/L in GW 87 ppm in S	200 ppm	1,000 ppm	1.1 ppm	Irritated eyes, CNS depression	10
Trimethylbenzene	0.76 ppm in S	25 ppm	NE	2.4 ppm	Eye, nose & throat irritation, pneumonia	NA
Toluene	0.41 ppm in S	50 ppm	500 ppm	1.7 ppm	Fatigue, confusion, euphoria, dizziness, headache, tears	8.82
Naphthalene	0.19 ppm in S	10 ppm	250 ppm	38 ppb	Eye irritation, headache, confusion, excitement, nausea	8.12
Xylenes	1.4 ug/L in GW	100 ppm	900 ppm	5 ppm	Eye, nose & throat irritation, drowsiness, nausea, incoordination	8.44
Methylene Chloride	12.2 ug/L in GW	25 ppm	2,300 ppm	160 ppm	Weakness, tingling & numbness, vertigo, nausea	11.35
MTBE	5.9 ug/L in GW	50 ppm	NE	<0.5 ppm	Drowsiness, eye irritation, incoordination, rapid breathing	<9.40
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 A = Air	SW = Surface Water GW = Ground Water	T = Tailings SL = Sludge	W = Waste D = Drums	TK = Tanks L = Lagoons	SD = Sediment OFF = Off-Site	

HEALTH AND SAFETY PLAN FORM		<i>This document is for the exclusive use of CDM and its subcontractors</i>		CDM (Camp Dresser & McKee)	
CDM Health and Safety Program				PROJECT DOCUMENT #: 1	
SPECIFIC TASK DESCRIPTIONS	Disturbing the Waste?	TASK - SPECIFIC HAZARDS	HAZARD & SCHEDULE		
1 1) Geophysical survey including all sampling locations	Intrusive	Heat, Cold, Traffic	Low Hazard		
	Non-intrusive		9/2008		
2 2) Geoprobe soil sampling and groundwater screening (at 17 points).	Intrusive	Heat, Cold, Traffic, Manual Matierial Handling, Slips Trips Falls, Chemicals, Machinery, Noise, Electrical	Medium Hazard		
	Non-intrusive		9/2008		
3 3) Installation (oversight) of 6 new groundwater monitoring wells (soilsampling will be conducted)	Intrusive	Heat, Cold, Traffic, Manual Matierial Handling, Slips Trips Falls, Chemicals, Machinery, Noise, Electrical	Medium Hazard		
	Non-intrusive		10/2008		
4 4) Groundwater sampling at up to 10 new and existing wells.	Intrusive	Heat, Cold, Traffic, Manual Matierial Handling, Slips Trips Falls, Chemicals, Electrical	Medium Hazard		
	Non-intrusive		11/2008		
5 5) Site survey	Intrusive	Heat, Cold, Traffic	Low Hazard		
	Non-intrusive		12/2008		
6 6) IDW handling and removal oversight	Intrusive	Heat, Cold, Traffic, Manual Matierial Handling, Slips Trips Falls, Chemicals, Machinery	Low Hazard		
	Non-intrusive		12/2008		
SPECIALIZED TRAINING REQUIRED:		SPECIAL MEDICAL SURVEILLANCE REQUIREMENTS:			
OVERALL HAZARD EVALUATION:		<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low <input type="checkbox"/> Unknown <i>(Where tasks have different hazards, evaluate each.)</i>			
JUSTIFICATION:		Contamination is in groundwater, some of which will be brought to the surface.			
FIRE/EXPLOSION POTENTIAL:		<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low <input type="checkbox"/> Unknown			

HEALTH AND SAFETY PLAN FORM

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CDM (Camp Dresser & McKee)**PROJECT DOCUMENT #: 1**

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		BLOCK B	
TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 LEVEL: A - B - C - D - Modified <input type="checkbox"/> Primary <input type="checkbox"/> Contingency	Respiratory: (XX) Not needed <input type="checkbox"/> SCBA, Airline: <input type="checkbox"/> APR: <input type="checkbox"/> Cartridge: <input type="checkbox"/> Escape Mask: <input type="checkbox"/> Other:	Prot. Clothing: <input type="checkbox"/> Not needed <input type="checkbox"/> Encapsulated Suit: <input type="checkbox"/> Splash Suit <input type="checkbox"/> Apron: <input type="checkbox"/> Tyvek Coverall or <input type="checkbox"/> Saranex Coverall <input type="checkbox"/> Cloth Coverall: (X) Other: work clothes (X) Other: traffic safety vest Gloves: <input type="checkbox"/> Not needed (X) Undergloves: Nitriles for Tasks 2-4 (X) Gloves: Nitrile for Tasks 2-4 <input type="checkbox"/> Overgloves: Nitrile	TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 LEVEL: A - B - C - D - Modified <input type="checkbox"/> Primary <input type="checkbox"/> Contingency
	Head and Eye: <input type="checkbox"/> Not needed (X) Safety Glasses: Task 2-4 <input type="checkbox"/> Face Shield: <input type="checkbox"/> Goggles: (X) Hard Hat: <input type="checkbox"/> Other:	Head and Eye: <input type="checkbox"/> Not needed <input type="checkbox"/> Other:	
	Boots: <input type="checkbox"/> Not needed (X) Steel-Toe <input type="checkbox"/> Rubber (X) Leather <input type="checkbox"/> Overboots:	Other: specify below (X) Tick Spray <input type="checkbox"/> Flotation Device (X) Hearing Protection (X) Sun Screen	
	BLOCK C		
TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 LEVEL: A - B - C - D - Modified <input type="checkbox"/> Primary <input type="checkbox"/> Contingency	Respiratory: <input type="checkbox"/> Not needed <input type="checkbox"/> SCBA, Airline: <input type="checkbox"/> APR: <input type="checkbox"/> Cartridge: <input type="checkbox"/> Escape Mask: <input type="checkbox"/> Other:	Prot. Clothing: <input type="checkbox"/> Not needed <input type="checkbox"/> Encapsulated Suit: <input type="checkbox"/> Splash Suit <input type="checkbox"/> Apron: <input type="checkbox"/> Tyvek Coverall <input type="checkbox"/> Saranex Coverall <input type="checkbox"/> Cloth Coverall: <input type="checkbox"/> Other:	TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 LEVEL: A - B - C - D - Modified <input type="checkbox"/> Primary <input type="checkbox"/> Contingency
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	Boots: <input type="checkbox"/> Not needed <input type="checkbox"/> Steel-Toe <input type="checkbox"/> Steel Shank <input type="checkbox"/> Rubber <input type="checkbox"/> Leather <input type="checkbox"/> Overboots:	Other: specify below <input type="checkbox"/> Tick Spray <input type="checkbox"/> Flotation Device <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Sun Screen	
	BLOCK D		
TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 LEVEL: A - B - C - D - Modified <input type="checkbox"/> Primary <input type="checkbox"/> Contingency	Respiratory: <input type="checkbox"/> Not needed <input type="checkbox"/> SCBA, Airline: <input type="checkbox"/> APR: <input type="checkbox"/> Cartridge: <input type="checkbox"/> Escape Mask: <input type="checkbox"/> Other:	Prot. Clothing: <input type="checkbox"/> Not needed <input type="checkbox"/> Encapsulated Suit: <input type="checkbox"/> Splash Suit <input type="checkbox"/> Apron: <input type="checkbox"/> Tyvek Coverall <input type="checkbox"/> Saranex Coverall <input type="checkbox"/> Cloth Coverall: <input type="checkbox"/> Other:	TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 LEVEL: A - B - C - D - Modified <input type="checkbox"/> Primary <input type="checkbox"/> Contingency
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	BLOCK E		

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 use of CDM and its subcontractors		CDM (Camp Dresser & McKee)
CDM Health and Safety Program		PROJECT DOCUMENT #: 1		
MONITORING EQUIPMENT:		Specify by task. Indicate type as necessary. Attach additional sheets if needed.		
INSTRUMENT	TASK	ACTION GUIDELINES		COMMENTS
Combustible Gas Indicator	2 & 3	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	() Not Needed Needed for all drilling activities
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 10.6eV Lamp Type OVM	2-3-4 & 6	Specify: 0-2 ppm: Level D 2 - 15 ppm: Level D. Check with detector tubes > 15 ppm Leave Area . Call HSM		() Not Needed Monitor breathing zone continuously. Compare action levels to time-averaged breathing zone measurements.
Single Gas Type: Vinyl Chloride	2-3-4 & 6	Specify: 0-0.5 ppm: Level D > 0.5 ppm Leave Area . Call HSM		Team will draw vinyl chloride detector tubes to determine 1, 1-dichloroethylene concentrations when PID readings rise.
Dust Monitor Type _____ Type _____	2-3-4 & 6	If team observes visible concentrations of airborne dust or dry, windy conditions that dust, team will leave area.		Community Air Monitoring will be required for Task 2 & 3.
Other Specify: _____ Type _____ Type _____	2-3-4 & 6	If team notices unusual odors or irritation of the eye or throat, they will leave the area.		() Not Needed
Other Specify: _____ Type _____ Type _____	<u>1-2-3-4-5-6-7-8</u>	Specify:		() Not Needed

HEALTH AND SAFETY PLAN FORM		This document is for the exclusive use of CDM and its subcontractors		CDM (Camp Dresser & McKee)	
CDM Health and Safety Program				PROJECT DOCUMENT #: 1	
DECONTAMINATION PROCEDURES					
ATTACH SITE MAP INDICATING EXCLUSION, DECONTAMINATION, & SUPPORT ZONES AS PAGE TWO					
Personnel Decontamination <i>Summarize below or attach diagram;</i> Team members will remove their protective clothing in the following order: 1. Equipment drop. 2. Glove removal 3. Hand and face wash. <div style="text-align: right;">() Not Needed</div>		Sampling Equipment Decontamination <i>Summarize below or attach diagram;</i> Sampling equipment will be decontaminated by: 1. Gross mechanical removal of dirt. 2. Alconox/Water wash. 3. Potable water rinse. 4. Distilled water rinse. <div style="text-align: right;">() Not Needed</div>		Heavy Equipment Decontamination <i>Summarize below or attach diagram;</i> Drill rigs and/or geoprobes used for hydropunch and soil vapor sampling will be decontaminated by: 1. Gross mechanical removal of dirt. 2. Alconox/Water wash. 3. Potable water rinse. Heavily contaminated equipment will be steam cleaned <div style="text-align: right;">() Not Needed</div>	
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.		Containment and Disposal Method 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.		Containment and Disposal Method 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					
<i>Preservatives</i>		<i>Decontamination</i>		<i>Calibration</i>	
(X) Hydrochloric Acid () Zinc Acetate () Nitric Acid () Ascorbic Acid () Sulfuric Acid () Acetic Acid () Sodium Hydroxide () Other:		() Alconox TM () Hexane (X) Liquinox TM () Isopropanol () Acetone () Nitric Acid () Methanol () Other: () Mineral Spirits		(X) 100 ppm isobutylene (X) Hydrogen Sulfide (X) Methane (X) Carbon Monoxide () Pentane () pH Standards () Hydrogen () Conductivity Std () Propane () Other:	

HEALTH AND SAFETY PLAN FORM		<i>This document is for the exclusive use of CDM and its subcontractors</i>		CDM (Camp Dresser & McKee)																																											
CDM Health and Safety Program		PROJECT DOCUMENT #: 1																																													
EMERGENCY CONTACTS Water Supply Site Telephone: NA EPA Release Report #: 800 / 424 - 8802 CDM 24-Hour Emergency #: PSG 732 / 539 - 8128 Facility Management Other (specify) UFPO 800-962-7962 (Underground Utility) CHEMTREC Emergency #: 800 / 424 - 9300			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">EMERGENCY CONTACTS</th> <th style="text-align: left; padding: 5px;">NAME</th> <th style="text-align: left; padding: 5px;">PHONE</th> </tr> </thead> <tbody> <tr> <td>Health and Safety Manager</td> <td>Chris Marlowe</td> <td>732 / 590 - 4632</td> </tr> <tr> <td>Project Manager</td> <td>Edward Kulkusky</td> <td></td> </tr> <tr> <td>Site Safety Coordinator</td> <td>Stefanie Britch</td> <td></td> </tr> <tr> <td>Client Contact</td> <td>Tara Diaz</td> <td>518-402-9621</td> </tr> <tr> <td>Other: CDM Task Manager</td> <td>Cristina Ramacciotti</td> <td>732-590-4701</td> </tr> <tr> <td>Environmental Agency</td> <td>NYSDEC</td> <td>518-402-9621</td> </tr> <tr> <td>State Spill Number</td> <td>New York</td> <td>(800) 457 - 7362</td> </tr> <tr> <td>Fire Department</td> <td></td> <td>911</td> </tr> <tr> <td>Police Department</td> <td></td> <td>911</td> </tr> <tr> <td>State Police</td> <td></td> <td>911</td> </tr> <tr> <td>Health Department</td> <td></td> <td>866-881-2809</td> </tr> <tr> <td>Poison Control Center</td> <td>Nationwide</td> <td>800 / 222 - 1222</td> </tr> <tr> <td>Occupational Physician</td> <td>Kenneth Chase</td> <td>800 / 777 - WOHA</td> </tr> </tbody> </table>			EMERGENCY CONTACTS	NAME	PHONE	Health and Safety Manager	Chris Marlowe	732 / 590 - 4632	Project Manager	Edward Kulkusky		Site Safety Coordinator	Stefanie Britch		Client Contact	Tara Diaz	518-402-9621	Other: CDM Task Manager	Cristina Ramacciotti	732-590-4701	Environmental Agency	NYSDEC	518-402-9621	State Spill Number	New York	(800) 457 - 7362	Fire Department		911	Police Department		911	State Police		911	Health Department		866-881-2809	Poison Control Center	Nationwide	800 / 222 - 1222	Occupational Physician	Kenneth Chase	800 / 777 - WOHA
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SAFETY NARRATIVE: <i>Summarize below</i> If work team observes hazards for which they are not prepared, they will withdraw from the area and call the health and safety manager. Solo employees will not enter or remain in the work area unless accompanied by contractor or facility personnel. CDM may rely on instruments owned and operated by the contractor only upon HSM approval. Without regard to the instrument readings, personnel will leave the site and upgrade their level of protection if they experience nausea or dizziness. 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 its equipment and certify its suitability for the project to the CDM SHSC. CDM will conduct daily health and safety meetings prior to the start of work or change in working procedures. SHSC will designate evacuation routes. Teams will cease work if they see lightning or thunder storms in the area.			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">MEDICAL EMERGENCY</th> <th style="text-align: left; padding: 5px;">PHONE</th> </tr> </thead> <tbody> <tr> <td>Hospital Name: Good Samaritan Medical Center</td> <td>631-376-4444</td> </tr> <tr> <td>Hospital Address: 1000 Montauk Highway, West Islip, NY</td> <td></td> </tr> <tr> <td>Name of Contact at Hospital: Emergency Room</td> <td></td> </tr> <tr> <td>Name of 24-Hour Ambulance:</td> <td>911</td> </tr> <tr> <td colspan="2">Route to Hospital: (map on next page)</td> </tr> <tr> <td colspan="2">1) Head south (left at light from Villa parking lot) onto Deer Park Ave/RT-231 N toward Long Island Ave. (4.5 miles)</td> </tr> <tr> <td colspan="2">2) Slight left toward E. Main St./Montauk Hwy/RT27A E. (1.2 mi).</td> </tr> <tr> <td colspan="2">Distance to Hospital: 6.0 miles</td> </tr> </tbody> </table>			MEDICAL EMERGENCY	PHONE	Hospital Name: Good Samaritan Medical Center	631-376-4444	Hospital Address: 1000 Montauk Highway, West Islip, NY		Name of Contact at Hospital: Emergency Room		Name of 24-Hour Ambulance:	911	Route to Hospital: (map on next page)		1) Head south (left at light from Villa parking lot) onto Deer Park Ave/RT-231 N toward Long Island Ave. (4.5 miles)		2) Slight left toward E. Main St./Montauk Hwy/RT27A E. (1.2 mi).		Distance to Hospital: 6.0 miles																									
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Prepared by <u>Cristina Ramacciotti</u> Date <u>8/27/2008</u> HSC Signature _____ HSM Signature _____																																															

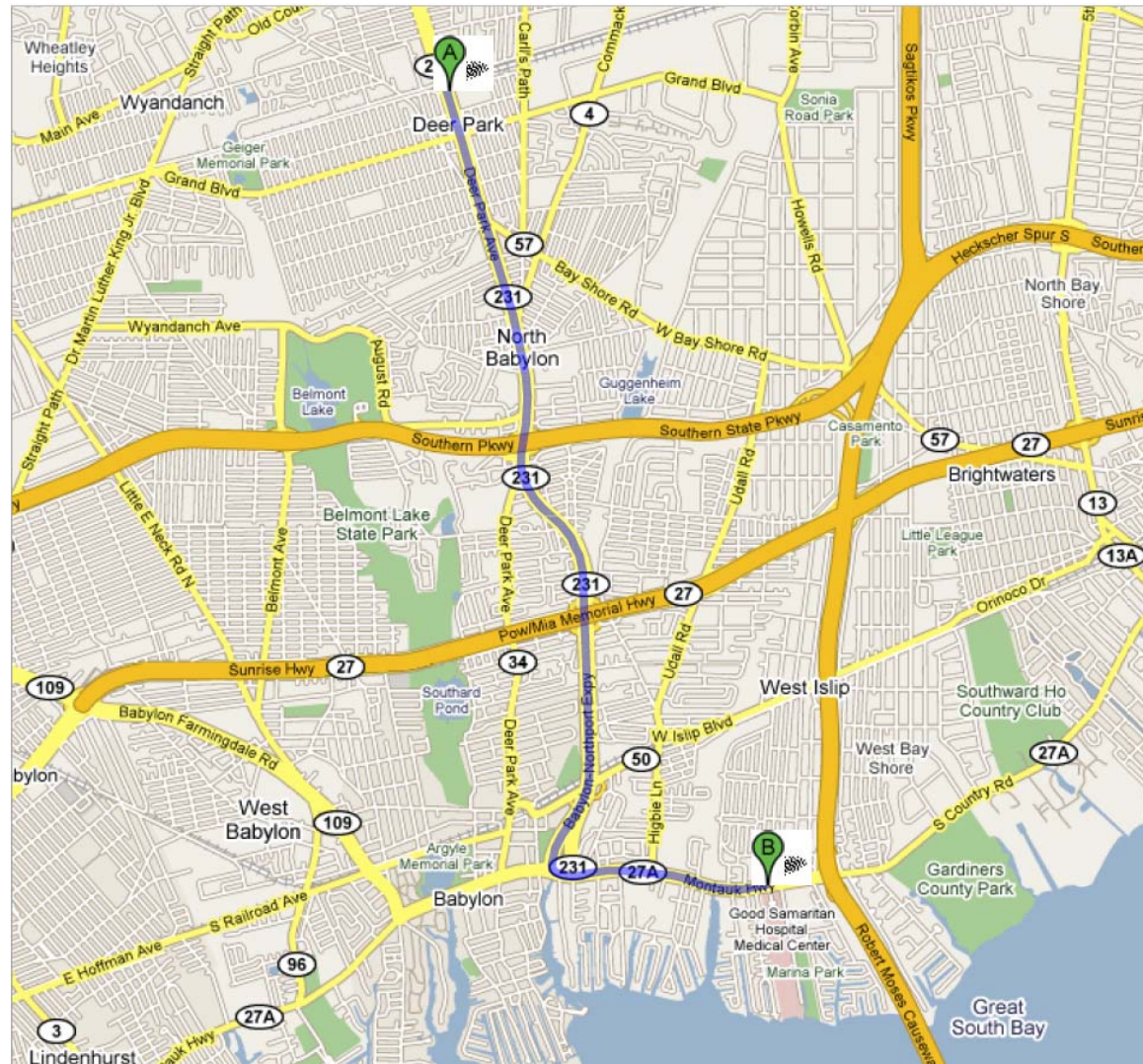
HEALTH AND SAFETY PLAN FORM

CDM Health and Safety Program

ROUTE TO HOSPITAL MAP:

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

CAMP DRESSER & McKEE INC.



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: Villa Dry Cleaners Site - NYSDEC Site Number 1-52-188

DIVISION/LOCATION: 1899 Deer Park Avenue, Babylon, New York

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

New York State Department of Health Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a **continuous** basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed $150 \text{ mcg}/\text{m}^3$ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than $150 \text{ mcg}/\text{m}^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within $150 \text{ mcg}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

June 20, 2000

P:\Bureau\Common\CommunityAirMonitoringPlan (CAMP)\GCAMPRI.DOC

Appendix B

2.11 forms

Schedule 2.11(a)

Summary of Work Assignment Price

Work Assignment Number D004437-32

1) Direct Salary Costs (Schedules 2.10(a) and 2.11(b))	<u>\$100,206</u>
2) Indirect Costs (Schedule 2.10(g))	<u>\$168,245</u>
3) Direct Non-Salary Costs (Schedules 2.10(b)(c)(d) and 2.11(c)(d))	<u>\$72,136</u>

4) Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.10(e) and 2.11(e))

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
i) Ken Schider Consulting	W/MBE Reporting	\$1,800
ii)		
iii)		

A) Total Cost-Plus-Fixed-Fee Subcontracts \$1,800

Unit Price Subcontracts (Schedule 2.10 (f) and 2.11 (f))

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
i) Zebra Environmental	Direct Push Driller	\$87,064
ii) Mitkem	Laboratory	\$15,351
iii) Nancy Potak	WBE Data Validator	\$4,583
iv) Bryant Associates	MBE Topographic Survey	\$10,328
v) SeaCoast Environmental	Investigation Derived Waste	\$23,644
vi) Advanced Drilling	WBE Driller	\$84,928
vii) ECCS	Mobile Laboratory	\$61,600
vii) Naeva	Geophysical Survey	\$4,000

B) Total Unit Price Subcontracts \$291,498

5) Subcontract Management Fee \$ 14,374.92

6) Total Subcontract Costs (lines 4A + 4B + 5) \$307,673

7) Fixed Fee (Schedule 2.10(h)) \$18,792

8) Total Work Assignment Price (Lines 1 + 2 + 3 + 6 + 7) \$667,052

Engineer/Contract # D004437
 Project Name Villa Dry Cleaners
 Work Assignment No. D004437-32

Date Prepared: 9/8/2008

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		
*Av. Salary Rate (\$) _____ Year 2008	\$65.24		\$59.42		\$52.09		\$45.95		\$38.75		\$32.86		\$28.62		\$25.52		\$21.12		\$0.00	\$21.12		0		
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	24	\$1,565.76	8	\$475.36	0	\$0.00	80	\$3,676.00	0	\$0.00	80	\$2,628.80	0	\$0.00	20	\$510.40	0	\$0	0	\$0.00	20	\$422.40	232	\$9,278.72
Task 2 Citizen Participation	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0	0	\$0.00	0	\$0.00	0	\$0.00
Task 3 Mobilization and Demobilization	0	\$0.00	0	\$0.00	0	\$0.00	8	\$367.60	0	\$0.00	8	\$262.88	24	\$686.88	0	\$0.00	8	\$169	0	\$0.00	0	\$0.00	48	\$1,486.32
Task 4 Site Investigation	8	\$521.92	0	\$0.00	0	\$0.00	30	\$1,378.50	652	\$25,265.00	50	\$1,643.00	0	\$0.00	0	\$0.00	570	\$12,038	0	\$0.00	0	\$0.00	1310	\$40,846.82
Task 5 Remedial Investigation Report	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0	0	\$0.00	0	\$0.00	0	\$0.00
Task 6 Feasibility Study	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0	0	\$0.00	0	\$0.00	0	\$0.00
Total Hours	32		8		0		118		652		138		24		20		578		0		20		1590	
Total Direct Labor Cost (\$) Year 2008		\$2,087.68		\$475.36		\$0.00		\$5,422.10		\$25,265.00		\$4,534.68		\$686.88		\$510.40		\$12,207		\$0.00		\$422.40		\$1,611.86

<i>Labor Classification</i>	<i>IX</i>		<i>VIII</i>		<i>VII</i>		<i>VI</i>		<i>V</i>		<i>IV</i>		<i>III</i>		<i>II</i>		<i>I</i>		<i>Tech. Support</i>	<i>Admin Support</i>		<i>Total No. of Direct Labor Hours and</i>	
*Av. Salary Rate (\$) _____ Year 2009	\$67.20		\$61.20		\$53.65		\$47.33		\$39.91		\$33.85		\$29.48		\$26.29		\$21.75		\$0.00	\$21.75		0	
Description	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	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0	0	\$0.00	0	\$0.00	
Task 2 Citizen Participation	0	\$0.00	2	\$122.41	0	\$0.00	20	\$946.57	0	\$0.00	10	\$338.46	0	\$0.00	0	\$0.00	4	\$87	0	\$0.00	4	\$87.01	
Task 3 Mobilization and Demobilization	0	\$0.00	0	\$0.00	0	\$0.00	8	\$378.63	0	\$0.00	8	\$270.77	24	\$707.49	0	\$0.00	8	\$174	0	\$0.00	0	\$0.00	
Task 4 Site Investigation	4	\$268.79	3	\$183.61	0	\$0.00	26	\$1,230.54	0	\$0.00	22	\$744.61	312	\$9,197.32	0	\$0.00	30	\$653	0	\$0.00	0	\$0.00	
Task 5 Remedial Investigation Report	12	\$806.37	36	\$2,203.29	0	\$0.00	120	\$5,679.42	0	\$0.00	130	\$4,399.95	150	\$4,421.79	0	\$0.00	120	\$2,610	0	\$0.00	16	\$348.06	
Task 6 Feasibility Study	12	\$806.37	40	\$2,448.10	0	\$0.00	128	\$6,058.05	0	\$0.00	0	\$0.00	60	\$1,768.72	0	\$0.00	60	\$1,305	0	\$0.00	16	\$348.06	
Total Hours	28		81		0		302		0		170		546		0		222		0		36		
Total Direct Labor Cost (\$) Year 2009		\$1,881.52		\$4,957.41		\$0.00		\$14,293.21		\$0.00		\$5,753.79		\$16,095.32		\$0.00		\$4,829		\$0.00		\$783.13	

Total Hours	60		89		0		420		652		308		570		20		800		0		56		2975	
Total Direct Labor Cost (\$) Year 2008 and 2009		\$3,969.20		\$5,432.77		\$0.00		\$19,715.31		\$25,265.00		\$10,288.47		\$16,782.20		\$510.40		\$17,036.66		\$0.00		\$1,205.53		\$100,205.53

* For multiple years use one average salary rate row for each year and each years subtotal Labor Cost.

Engineer/Contract # D004437
 Project Name Villa Dry Cleaners
 Work Assignment No. D004437-32

Date Prepared: 9/8/2008

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

<i>Labor Classification</i>	<i>IX</i>	<i>VIII</i>	<i>VII</i>	<i>VI</i>	<i>V</i>	<i>IV</i>	<i>III</i>	<i>II</i>	<i>I</i>	<i>Admin. Support</i>	<i>Total No. of Direct Labor Hrs.</i>
Task 1 Work Plan Development	24									20	44
Task 2 Citizen Participation	0									4	4
Task 3 Mobilization and Demobilization	0									0	0
Task 4 Site Investigation	12									0	12
Task 5 Remedial Investigation Report	12									16	28
Task 6 Feasibility Study	12									16	28
TOTAL HOURS	60	0	0	0	0	0	0	0	0	56	116

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) Technical 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 D004437-32

	Item	Max. Reimbursement * Rate (Specify Unit)	Est. No. of Units	Total Estimated Cost
A)	Other			
	1) Shipping Task 1	LS	1	\$100.00
	2) Outside Printing Task 1	LS	1	\$100.00
	3) Shipping Task 2	LS	1	\$50.00
	4) Outside Printing Task 2	LS	1	\$100.00
	5) Shipping Task 3	LS	1	\$50.00
	6) Outside Printing Task 3	LS	1	\$100.00
	7) Shipping Task 4	per cooler	18	\$2,700.00
	8) Outside Printing Task 4	LS	1	\$100.00
	9) Shipping Task 5	LS	1	\$100.00
	10) Outside Printing Task 5	LS	1	\$1,000.00
	11) Shipping Task 6	LS	1	\$100.00
	12) Outside Printing Task 6	LS	1	\$1,000.00
		Sub-Total Other		\$5,500.00
B)	Miscellaneous Task 1 - Site Visit			
	1) Mileage (per mile)	\$0.585	150	\$87.75
	2) Tolls	\$15.00	1	\$15.00
		Sub-Total Miscellaneous Task 1		\$102.75
C)	Miscellaneous Task 2 - Citizen Participation			
	1) Mileage (per mile)	\$0.585	150	\$87.75
	2) Tolls	\$15.00	1	\$15.00
		Sub-Total Miscellaneous Task 2		\$102.75
D)	Miscellaneous Task 3 - Topographic survey oversight			
	1) Mileage (per mile)	\$0.585	150	\$87.75
	2) Tolls	\$15.00	1	\$15.00
	3) LVE	\$1.00	20	\$20.00
		Sub-Total Miscellaneous Task 3		\$122.75
E)	Miscellaneous Task 3 - IDW removal oversight			
	1) Meals (per day)	\$64.00	2	\$128.00
	2) Lodging (per day)	\$127.00	2	\$254.00
	3) Mileage (per mile)	\$0.585	150	\$87.75
	4) Tolls	\$15.00	1	\$15.00
	5) LVE	\$1.00	10	\$10.00
		Sub-Total Miscellaneous Task 4		\$494.75
F)	Miscellaneous Task 4 -Site Characterization Groundwater Screening and Monitoring well Installation			
	1) Meals (per day)	\$64.00	148	\$9,472.00
	2) Lodging (per day)	\$127.00	148	\$18,796.00
	3) Mileage (per mile)	\$0.585	4350	\$2,544.75
	4) PPE (level D) (per day)	\$15.00	148	\$2,220.00
	5) Tolls	\$15.00	53	\$795.00
	6) LVE	\$1.00	1803	\$1,803.00
		Sub-Total Miscellaneous Task 5		\$35,630.75
G)	Miscellaneous Task 5 - Remedial Investigation Report			
	1) Mileage (per mile)	\$0.585	300	\$175.50
	2) Tolls	\$15.00	1	\$15.00
		Sub-Total Miscellaneous Task 5		\$190.50
H)	Miscellaneous Task 6 - Feasibility Study Report			
	1) Mileage (per mile)	\$0.585	300	\$175.50
	2) Tolls	\$15.00	1	\$15.00
		Sub-Total Miscellaneous Task 6		\$190.50
		Total Direct Non-Salary Costs		\$42,334.75

*Schedule 2.11(d) 3**Maximum Reimbursement Rate for Vendor Rented Equipment*

Item	Max Reimbursement Rate (\$)*	Est. Usage (unit of time)	Est. Rental Cost (\$) (Col. 2 x 3)
Task 4			
Truck Rental (per week)	\$ 548.59	23	\$ 12,617.57
YSI 600 XL water quality meter (per week)	\$ 165.00	12	\$ 1,980.00
Hach DR-890 Colorimeter (per day)	\$ 27.50	9	\$ 247.50
M-scope (per day)	\$ 13.75	9	\$ 123.75
MiniRae (per week) 2 units x 6 week, 1 unit x 5 weeks	\$ 110.00	17	\$ 1,870.00
Grundfos Pump (per day)	\$ 26.13	9	\$ 235.13
Generator (per day)	\$ 24.75	9	\$ 222.75
Dust Monitor #1 MIE DR-4000 (monthly) (includes associated auxiliary equipment for upgradient community air monitoring station)	\$ 522.50	3	\$ 1,567.50
Dust Monitor #2 MIE DR-4000 (monthly) (includes associated auxiliary equipment for downgradient community air monitoring station)	\$ 522.50	3	\$ 1,567.50
PID #1 (monthly) (for downgradient community air monitoring station)	\$ 440.00	3	\$ 1,320.00
Lamp 11.7 eV Interchangeable (monthly) (for downgradient community air monitoring station equipped with PID #1)	\$ 123.75	3	\$ 371.25
PID #2 (monthly) (for breathing zone and headspace readings)	\$ 440.00	3	\$ 1,320.00
Lamp 11.7 eV Interchangeable (monthly) (for breathing zone and headspace readings collected with PID #2)	\$ 123.75	3	\$ 371.25
Combustible Gas Indicator (weekly)	\$ 82.50	23	\$ 1,897.50
JOB COM Radio VHF JMS-141-D (for alarms on DR-4000s)	\$ 77.00	23	\$ 1,771.00
TOTAL:			\$27,483

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

Schedule 2.11(d) 5

Maximum Reimbursement Rate for Consumables

Item	Max Reimbursement Rate (\$)*	Est. Usage (unit of time)	Est. Rental Cost (\$) (Col. 2 x 3)
Task 5			
Munsel color chart	\$ 100.00	2	\$ 200.00
Isopropynol (for decontamination)	\$ 185.00	1	\$ 185.00
Liquinox	\$ 30.00	1	\$ 30.00
Ice	\$ 2.00	158	\$ 316.00
Ziploc bags (box of 30)	\$ 3.00	16	\$ 48.00
Ferrous Iron Ampules (box of 25)	\$ 35.00	1	\$ 35.00
Log books	\$ 15.00	6	\$ 90.00
Teflon lined tubing	\$ 1.00	1365	\$ 1,365.00
Wooden stakes	\$ 2.00	25	\$ 50.00
TOTAL:			<u>\$2,319</u>

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

Schedule 2.11 (e)

Cost-Plus-Fixed-Fee Subcontracts
Work Assignment Number D004437-32

Name of Subcontractor	Services to be Performed	Subcontract Price
Ken Schider Consulting	M/WBE Reporting	\$1,799.91

A) Direct Salary Costs

Professional Responsibility Level	Labor Classification	Ave. Reimbursement Rate (\$/Hr.)	Max. Reimbursement Rate (\$/Hr.)	Est. No. of Hours	Total Est Direct Salary Cost (Ave. Reimb. Rate x Est. # of Hrs.)
IV	Eng/Scientist 4	\$32.60	\$36.78	24	\$782.40
Total Direct Salary Costs					\$782.40

Footnotes:

- 1) The labor rate averages and maximums shall be adjusted by a rate equal to the increase in the CPI index CUURA101SAO-"All Urban Consumers-New York-Northern N.J.-Long Island" for the previous year. This index is published by the U.S. Department of Labor's Bureau of Labor Statistics. The adjustment will be calculated every January and will be effective for subsequent work assignment billing and budgeting purposes.
- 2) Schedule 2.11(e) may be re-negotiated after four (4) years at the request of either party. Any revision as a result of re-negotiation will be subject to the approval of the Office of the State Comptroller.
- 3) The maximum annual escalation is limited to 5%.
- 4) Reimbursement will be limited to the lesser of either the individual's actual hourly rate or the maximum rate for each labor
- 5) Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work
- 6) Only those labor classifications indicated with an asterisk will be entitled to overtime.
- 7) Reimbursement for technical time of principals, owners, and officers will be limited to the maximum reimbursement rate of that category, the actual hourly labor rate paid, or the State M-6 rate, whichever is lower.
- 8) Maximum reimbursement rates may be exceeded for work assignment activities that are under the jurisdiction of the Schedule of Prevailing Wage Rates set by the New York State Department of Labor.

B) Indirect Costs

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 115 % or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Amount budgeted for indirect costs is: **\$899.76**

C) Maximum Reimbursement Rates for Direct Non-Salary Costs

Item	Max Reimbursement Rate (Specify Unit)	Est. No. of Units	Total Est. Cost
1) Travel	See Schedule 2.10 (d) for rates		
2) Supplies			
Total Direct Non-Salary Costs			\$0

D) Fixed Fee

The fixed fee is: 7%
See Schedule 2.10 (h) for how the fixed fee should be claimed. **\$117.75**

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **D004437-32**

Subcontractor	Services to be Performed		Subcontract Price	Management Fee
<u>SeaCoast Environmental</u>	<u>IDW Removal</u>		<u>\$23,644</u>	<u>\$1,182</u>
Item	Max. Reimbursement Rate (Specify Unit)		Est. No. of Units	Total Est. Cost
Investigation Derived Wastes				
Supply 5,000 gallon frac tank				
Mobilization	\$ 810.00	each	1	\$ 810.00
Tank rental	\$ 730.00	month	5	\$ 3,650.00
Tank cleaning	\$ 1,400.00	each	1	\$ 1,400.00
Demobilization	\$ 810.00	each	1	\$ 810.00
Handling transportation and disposal of water from tank				
Handling/transportation	\$ 1,340.00	load	1	\$ 1,340.00
Disposal - non-hazardous	\$ 0.26	gallon	5,000	\$ 1,300.00
Disposal - hazardous	\$ 1.26	gallon	0	\$ -
Groundwater in drums				
Handling/transportation	\$ 200.00	load	1	\$ 200.00
Disposal - non-hazardous	\$ 56.00	drum	4	\$ 224.00
Disposal - hazardous	\$ 180.00	drum	0	\$ -
Drill cuttings/mud in drums				
Handling/transportation	\$ 2,200.00	load	2	\$ 4,400.00
Disposal - non-hazardous	\$ 56.00	each	150	\$ 8,400.00
Disposal - hazardous	\$ 180.00	each	0	\$ -
Protective gear/debris				
Handling/transportation	\$ 450.00	load	1	\$ 450.00
Disposal - non-hazardous	\$ 56.00	each	10	\$ 560.00
Empty Used Drums				
Handling/transportation	\$ -	load	1	\$ -
Disposal - non-hazardous	\$ 20.00	each	5	\$ 100.00
Subtotal-Subcontract Price				\$ 23,644.00
Subcontract Management Fee*				<u>\$1,182</u>
TOTAL				<u>\$24,826</u>

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **D004437-32**

Name of Subcontractor		Services to be Performed		Subcontract Price Management Fee	
<u>Naeva</u>		<u>Geophysical Survey</u>		<u>\$4,000</u>	<u>\$0</u>
<u>Item</u>	<u>Max. Reimbursement Rate (Specify Unit)</u>		<u>Est. No. of Units</u>	<u>Total Est. Cost</u>	
Geophysical Survey to clear drilling locations and locate existing wells.	\$2,000.00	Day	2	\$4,000	
Subtotal-Subcontract Price				<u>\$4,000</u>	
Subcontract Management Fee*				<u>\$0</u>	
TOTAL				<u><u>\$4,000</u></u>	

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **D004437-32**

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
<u>Bryant Associates</u>	<u>MBE Topographic Survey</u>	<u>\$10,328</u>	<u>\$516</u>

<u>Item</u>	<u>Max. Reimbursement Rate (Specify Unit)</u>	<u>Est. No. of Units</u>	<u>Total Est. Cost</u>
Topographic Survey			
Site Base Map with topography including locations of 10 monitoring wells, 17 screening locations	\$10,328.00 each	1	\$10,328
Subtotal-Subcontract Price			<u>\$10,328</u>
Subcontract Management Fee*			<u>\$ 516.40</u>
TOTAL			<u><u>\$10,844</u></u>

Schedule 2.11 (f)

Unit Price Subcontracts

Work Assignment Number **D004437-32**

Name of Subcontractor		Services to be Performed		Subcontract Price	Management Fee
Nancy Potak		WBE Data Validator		\$4,583.25	\$229.16
Item	Max. Reimbursement Rate (Specify Unit)			Est. No. of Units	Total Est. Cost
DATA VALIDATION Task 5					
Aqueous**					
1 TCL VOCs	EPA SOW OLM04.3	\$	11.55 per sample	173	\$ 1,998.15
2 TCL VOCs	EPA SOW OLC03.2	\$	11.55 per sample	42	\$ 485.10
3 ¹ Nitrate/Nitrite	353.2	\$	4.20 per sample	33	\$ 138.60
4 Sulfate	375.4	\$	2.10 per sample	33	\$ 69.30
5 Chloride	325.3	\$	2.10 per sample	33	\$ 69.30
6 Alkalinity	310.1	\$	2.10 per sample	33	\$ 69.30
7 Total organic carbon	EPA 415.1/415.2	\$	2.10 per sample	33	\$ 69.30
8 Methane, ethane, ethene	RSK 175	\$	20.00 per sample	42	\$ 840.00
Soils					
9 TCL VOCs	8260B	\$	12.60 per sample	67	\$ 844.20
Subtotal-Subcontract Price					\$ 4,583.25
Subcontract Management Fee*					\$ 229.16
TOTAL					\$ 4,812.41

* A subcontract management fee of 5% has been included for M/WBE subcontracts.

** Items 1 through 7 from standby contract prices and include the 5% contract extension markup

Schedule 2.11 (f)

Unit Price Subcontracts

Work Assignment Number DOO4437-32

Name of Subcontractor <u>Advanced Drilling</u>		Services to be Performed <u>WBE Well Installation</u>		Subcontract Price Management Fee <u>\$84,928.00</u> <u>\$4,246.40</u>	
Item		Unit Cost		Est. No. of Units	Total Est. Cost
1. GENERAL					
1a	Mobilization (includes construct/deconstruct decon pad)	\$ 1,500.00	lump	1 \$	1,500.00
1b	Personal protective equipment	\$ -	day	25 \$	-
1c	Hand dig	\$ 325.00	hour	6 \$	1,950.00
1d	Steam Cleaning	\$ 225.00	hour	18 \$	4,050.00
1e	Steam cleaner rental	\$ -	day	25 \$	-
1f	55-Gallon Drums (contain cuttings)	\$ 45.00	each	150 \$	6,750.00
1g	Transport/Handling of IDW (per drum)	\$ 25.00	each	150 \$	3,750.00
1h	Well Development	\$ 225.00	hour	48 \$	10,800.00
1i	Development water handling*	\$ -	hour	8 \$	-
1j	Standby crew and rig	\$ 225.00	hour	1 \$	225.00
	2 man crew	\$ -	hour	1 \$	-
1k	per diem	\$ 325.00	day	25 \$	8,125.00
1l	Decon of split spoons	\$ 225.00	hour	6 \$	1,350.00
1m	Water tanker rental*	\$ -	day	25 \$	-
1n	Asphalt/concrete removal	\$ 225.00	hour	4 \$	900.00
2. Monitoring Well Installation					
2a	4.25 inch diameter hollow stem auger (0-50')	\$ 26.00	each	150 \$	3,900.00
2b	4.25 inch diameter hollow stem auger (50-100')	\$ 35.00	each	60 \$	2,100.00
2c	4.25 inch diameter hollow stem auger (100-	\$ 32.00	each	525 \$	16,800.00
2d	Split spoon sampling (90 to 100 feet bgs)	\$ 37.00	each	6 \$	222.00
2e	Split spoon sampling (100 to 175 feet bgs)	\$ 37.00	each	48 \$	1,776.00
3. Materials					
3a	2-inch dia., Schedule 40 PVC well casing	\$ 24.00	foot	735 \$	17,640.00
3b	2-inch dia., Schedule 40 PVC, 10-slot well	\$ 24.00	foot	60 \$	1,440.00
3c	Well Completion Materials (sand pack)	\$ -	foot	72 \$	-
3d	Well Completion Materials (bentonite seal)	\$ -	foot	12 \$	-
3e	Well Completion Materials (grout)	\$ -	foot	711 \$	-
3f	Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap +	\$ 275.00	each	6 \$	1,650.00
Subtotal-Subcontract Price				\$	<u>84,928.00</u>
Subcontract Management Fee*				\$	<u>4,246.40</u>
TOTAL				\$	<u><u>89,174.40</u></u>

* Subcontract Management Fee of 5% on Subcontracts over \$10,000

Schedule 2.11 (f)

Unit Price Subcontracts

Work Assignment Number DOO4437-32

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
<u>Zebra Environmental1</u>	<u>Direct Push</u>	<u>\$87,064.20</u>	<u>\$4,353.21</u>
Item	Unit Cost	Est. No. of Units	Total Est. Cost
MOB/DEMOB			
Mob/Demob Geoprobe	\$ 7,905.00 each	1	\$ 7,905.00
DRILL RIG AND CREW			
Geoprobe Unit w/ Operator (6600 cost)	\$ 1,400.00 day	52	\$ 72,800.00
Macro Core Samples	\$ 9.45 sample	306	\$ 2,891.70
Discreet GW sampler with 1 inch screen	\$ 35.00 each	17	\$ 595.00
55-Gallon DOT Drum	\$ 57.75 ea	10	\$ 577.50
Borehole abandonment	\$ 1.50 foot	1530	\$ 2,295.00
Subtotal-Subcontract Price			\$ 87,064.20
Subcontract Management Fee*			\$ 4,353.21
TOTAL			\$ 91,417.41

* Subcontract Management Fee of 5% on Subcontracts over \$10,000

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number D004437-32

Name of Subcontractor	<u>Mitkem Corporation</u>
Services to be Performed	<u>Laboratory</u>
Subcontract Price	<u>\$ 15,351.00</u>
Management Fee	<u>\$ 767.55</u>

Analysis*	Method	# of Samples	Unit Cost \$	Ext. Cost \$
Aqueous				
1 TCL VOCs	EPA SOW OLC03.2	42	\$ 69.00	\$ 2,898.00
2 ¹ Nitrate/Nitrite	353.2	33	\$ 40.00	\$ 1,320.00
3 Sulfate	375.4	33	\$ 20.00	\$ 660.00
4 Chloride	325.3	33	\$ 15.00	\$ 495.00
5 Alkalinity	310.1	33	\$ 5.00	\$ 165.00
6 Total organic carbon	EPA 415.1/415.2	33	\$ 30.00	\$ 990.00
7 Methane, ethane, ethene	RSK 175	42	\$ 75.00	\$ 3,150.00
Aqueous MS/MSD				
8 TCL VOCs MS/MSD	EPA SOW OLC03.2	4	\$ 69.00	\$ 276.00
Soils				
9 TCL VOCs	8260B	9	\$ 69.00	\$ 621.00
Soil MS/MSD				
10 TCL VOCs MS/MSD	8260B	2	\$ 69.00	\$ 138.00
IDW				
11 Full TCLP		6	\$ 628.00	\$ 3,768.00
12 RCRA characteristics (ignitability, corrosivity, reactivity)		6	\$ 85.00	\$ 510.00
13 PCB	8082	6	\$ 60.00	\$ 360.00
Subtotal-Subcontract Price				<u>\$ 15,351.00</u>
Subcontract Management Fee*				<u>\$767.55</u>
TOTAL				<u>\$ 16,118.55</u>

* A subcontract management fee of 5% has been included for M/WBE subcontracts.

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number D004437-32

Name of Subcontractor	<u>ECCS</u>
Services to be Performed	<u>Mobile Laboratory</u>
Subcontract Price	<u>\$61,600.00</u>
Management Fee	<u>\$ 3,080.00</u>

Item	Unit	# of Samples	Unit Cost \$	Ext. Cost \$
1 Mobilization/demobilization	Lump	1	\$2,500.00	\$ 2,500.00
2 Per diem	per day	26	\$ 200.00	\$ 5,200.00
3 Day rate	per day	26	\$1,650.00	\$42,900.00
4 Bottle ware (included in day rate)	per sample	300	\$ -	\$ -
5 Staff change out	each	2	\$1,000.00	\$ 2,000.00
6 Generator	per week	5	\$1,800.00	\$ 9,000.00
Subtotal-Subcontract Price				<u>\$61,600.00</u>
Subcontract Management Fee*				<u>\$3,080.00</u>
TOTAL				<u><u>\$64,680.00</u></u>

* A subcontract management fee of 5% has been included for M/WBE subcontracts and contracts over \$10,000

Schedule 2.11 (g) - Summary

**Monthly Cost Control Report
Summary of Fiscal Information**

Engineer Camp Dresser & McKee
 Contract No. D004437
 Project Name Villa Dry Cleaners
 Work Assignment No. D004437-32
 Summary of Tasks
 Percentage Completed

Date Prepared _____
 Billing Period _____
 Payment No. _____ Invoice No. _____

<i>Expenditure Category</i>	<i>A</i> <i>Costs Claimed This Period</i>	<i>B</i> <i>Paid to Date</i>	<i>C</i> <i>Total Disallowed to Date</i>	<i>D</i> <i>Total Costs Incurred to Date (A+B+C)</i>	<i>E</i> <i>Estimated Costs to Completion</i>	<i>F</i> <i>Estimated Total Work Assignment Price (A+B+E)</i>	<i>G</i> <i>Approved Budget</i>	<i>H</i> <i>Estimated Under/Over (G-F)</i>
1. Direct Salary Costs	\$0	\$0	\$0	\$0			\$100,206	
2. Indirect Costs - '167.9%	\$0	\$0	\$0	\$0			\$168,245	
3. Subtotal Direct Salary Costs and Indirect Costs	\$0	\$0	\$0	\$0			\$268,451	
4. Travel	\$0	\$0	\$0	\$0			\$36,835	
5. Other Non-Salary Costs	\$0	\$0	\$0	\$0			\$35,302	
6. Subtotal Direct Non-Salary Costs	\$0	\$0	\$0	\$0			\$72,136	
7. Subcontractors	\$0	\$0	\$0	\$0			\$293,298	
7a. Subcontract Mgt. Fee	\$0	\$0	\$0	\$0			\$14,375	
8. Total Work Assignment Cost	\$0	\$0	\$0	\$0			\$648,260	
9. Fixed Fee	\$0	\$0	\$0	\$0			\$18,792	
10. Total Work Assignment Price	\$0	\$0	\$0	\$0			\$667,052	

Project Manager (Engineer) Seth Kellogg

Date _____

Schedule 2.11 (g)

***Monthly Cost Control Report
Summary of Fiscal Information***

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Villa Dry Cleaners
Work Assignment No. D004437-32
Task #/Name Task 1 - Work Plan Development
Complete 0%

Page 1 of 7
Date Prepared _____
Billing Period _____
Invoice No. _____

<i>Expenditure Category</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
	<i>Costs Claimed This Period</i>	<i>Paid to Date</i>	<i>Total Disallowed to Date</i>	<i>Total Costs Incurred to Date (A+B+C)</i>	<i>Estimated Costs to Completion</i>	<i>Estimated Total Work Assignment Price (A+B+E)</i>	<i>Approved Budget</i>	<i>Estimated Under/Over (G-F)</i>
1. Direct Salary Costs	\$0	\$0	\$0	\$0			\$9,279	
2. Indirect Costs - '167.9%	\$0	\$0	\$0	\$0			\$15,579	
3. Subtotal Direct Salary Costs and Indirect Costs	\$0	\$0	\$0	\$0			\$24,858	
4. Travel	\$0	\$0	\$0	\$0			\$103	
5. Other Non-Salary Costs	\$0	\$0	\$0	\$0			\$200	
6. Subtotal Direct Non-Salary Costs	\$0	\$0	\$0	\$0			\$303	
7. Subcontractors	\$0	\$0	\$0	\$0			\$1,800	
7a. Subcontract Mgt. Fee	\$0	\$0	\$0	\$0			\$0	
8. Total Work Assignment Cost	\$0	\$0	\$0	\$0			\$26,960	
9. Fixed Fee	\$0	\$0	\$0	\$0			\$1,740	
10. Total Work Assignment Price	\$0	\$0	\$0	\$0			\$28,700	

Project Manager (Engineer) Seth Kellogg

Date _____

Schedule 2.11 (g)

**Monthly Cost Control Report
Summary of Fiscal Information**

Engineer Camp Dresser & McKee
 Contract No. D004437
 Project Name Villa Dry Cleaners
 Work Assignment No. D004437-32
 Task #/Name Task 2 - Citizen Participation
 Complete 0%

Page 3 of 7
 Date Prepared _____
 Billing Period _____
 Invoice No. _____

<i>Expenditure Category</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
	<i>Costs Claimed This Period</i>	<i>Paid to Date</i>	<i>Total Disallowed to Date</i>	<i>Total Costs Incurred to Date (A+B+C)</i>	<i>Estimated Costs to Completion</i>	<i>Estimated Total Work Assignment Price (A+B+E)</i>	<i>Approved Budget</i>	<i>Estimated Under/Over (G-F)</i>
1. Direct Salary Costs	\$0	\$0	\$0	\$0			\$1,581	
2. Indirect Costs <u>167.9%</u>	\$0	\$0	\$0	\$0			\$2,655	
3. Subtotal Direct Salary Costs and Indirect Costs	\$0	\$0	\$0	\$0			\$4,237	
4. Travel	\$0	\$0	\$0	\$0			\$103	
5. Other Non-Salary Costs	\$0	\$0	\$0	\$0			\$150	
6. Subtotal Direct Non-Salary Costs	\$0	\$0	\$0	\$0			\$253	
7. Subcontractors	\$0	\$0	\$0	\$0			\$0	
7a. Subcontract Mgt. Fee	\$0	\$0	\$0	\$0			\$0	
8. Total Work Assignment Cost	\$0	\$0	\$0	\$0			\$4,489	
9. Fixed Fee	\$0	\$0	\$0	\$0			\$297	
10. Total Work Assignment Price	\$0	\$0	\$0	\$0			\$4,786	

Project Manager (Engineer) Seth Kellogg

Date _____

Schedule 2.11 (g)

**Monthly Cost Control Report
Summary of Fiscal Information**

Engineer **Camp Dresser & McKee**
 Contract No. **D004437**
 Project Name **Villa Dry Cleaners**
 Work Assignment No. **D004437-32**
 Task #/Name **Task 3 - Mobilization and Demobilization**
 Complete **0%**

Page **4 of 7**
 Date Prepared _____
 Billing Period _____
 Invoice No. _____

<i>Expenditure Category</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
	<i>Costs Claimed This Period</i>	<i>Paid to Date</i>	<i>Total Disallowed to Date</i>	<i>Total Costs Incurred to Date (A+B+C)</i>	<i>Estimated Costs to Completion</i>	<i>Estimated Total Work Assignment Price (A+B+E)</i>	<i>Approved Budget</i>	<i>Estimated Under/Over (G-F)</i>
1. Direct Salary Costs	\$0	\$0	\$0	\$0			\$3,017	
2. Indirect Costs 167.9%	\$0	\$0	\$0	\$0			\$5,066	
3. Subtotal Direct Salary Costs and Indirect Costs	\$0	\$0	\$0	\$0			\$8,083	
4. Travel	\$0	\$0	\$0	\$0			\$618	
5. Other Non-Salary Costs	\$0	\$0	\$0	\$0			\$150	
6. Subtotal Direct Non-Salary Costs	\$0	\$0	\$0	\$0			\$768	
7. Subcontractors	\$0	\$0	\$0	\$0			\$37,972	
7a. Subcontract Mgt. Fee	\$0	\$0	\$0	\$0			\$1,699	
8. Total Work Assignment Cost	\$0	\$0	\$0	\$0			\$48,521	
9. Fixed Fee	\$0	\$0	\$0	\$0			\$566	
10. Total Work Assignment Price	\$0	\$0	\$0	\$0			\$49,087	

Project Manager (Engineer) **Seth Kellogg**

Date _____

Schedule 2.11 (g)

**Monthly Cost Control Report
Summary of Fiscal Information**

Engineer Camp Dresser & McKee
 Contract No. D004437
 Project Name Villa Dry Cleaners
 Work Assignment No. D004437-32
 Task #/Name Task 4 - Site Investigation
 Complete 0%

Page 5 of 7
 Date Prepared _____
 Billing Period _____
 Invoice No. _____

<i>Expenditure Category</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
	<i>Costs Claimed This Period</i>	<i>Paid to Date</i>	<i>Total Disallowed to Date</i>	<i>Total Costs Incurred to Date (A+B+C)</i>	<i>Estimated Costs to Completion</i>	<i>Estimated Total Work Assignment Price (A+B+E)</i>	<i>Approved Budget</i>	<i>Estimated Under/Over (G-F)</i>
1. Direct Salary Costs	\$0	\$0	\$0	\$0			\$53,124	
2. Indirect Costs <u>167.9%</u>	\$0	\$0	\$0	\$0			\$89,196	
3. Subtotal Direct Salary Costs and Indirect Costs	\$0	\$0	\$0	\$0			\$142,320	
4. Travel	\$0	\$0	\$0	\$0			\$35,631	
5. Other Non-Salary Costs	\$0	\$0	\$0	\$0			\$32,602	
6. Subtotal Direct Non-Salary Costs	\$0	\$0	\$0	\$0			\$68,232	
7. Subcontractors	\$0	\$0	\$0	\$0			\$248,943	
7a. Subcontract Mgt. Fee	\$0	\$0	\$0	\$0			\$12,447	
8. Total Work Assignment Cost	\$0	\$0	\$0	\$0			\$471,943	
9. Fixed Fee	\$0	\$0	\$0	\$0			\$9,962	
10. Total Work Assignment Price	\$0	\$0	\$0	\$0			\$481,905	

Project Manager (Engineer) Seth Kellogg

Date _____

Schedule 2.11 (g)

**Monthly Cost Control Report
Summary of Fiscal Information**

Engineer **Camp Dresser & McKee**
 Contract No. **D004437**
 Project Name **Villa Dry Cleaners**
 Work Assignment No. **D004437-32**
 Task #/Name **Task 5 - Remedial Investigation Report**
 Complete **0%**

Page **6 of 7**
 Date Prepared _____
 Billing Period _____
 Invoice No. _____

<i>Expenditure Category</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
	<i>Costs Claimed This Period</i>	<i>Paid to Date</i>	<i>Total Disallowed to Date</i>	<i>Total Costs Incurred to Date (A+B+C)</i>	<i>Estimated Costs to Completion</i>	<i>Estimated Total Work Assignment Price (A+B+E)</i>	<i>Approved Budget</i>	<i>Estimated Under/Over (G-F)</i>
1. Direct Salary Costs	\$0	\$0	\$0	\$0			\$20,469	
2. Indirect Costs	\$0	\$0	\$0	\$0			\$34,368	
3. Subtotal Direct Salary Costs and Indirect Costs	\$0	\$0	\$0	\$0			\$54,837	
4. Travel	\$0	\$0	\$0	\$0			\$191	
5. Other Non-Salary Costs	\$0	\$0	\$0	\$0			\$1,100	
6. Subtotal Direct Non-Salary Costs	\$0	\$0	\$0	\$0			\$1,291	
7. Subcontractors	\$0	\$0	\$0	\$0			\$4,583	
7a. Subcontract Mgt. Fee	\$0	\$0	\$0	\$0			\$229	
8. Total Work Assignment Cost	\$0	\$0	\$0	\$0			\$60,940	
9. Fixed Fee	\$0	\$0	\$0	\$0			\$3,839	
10. Total Work Assignment Price	\$0	\$0	\$0	\$0			\$64,779	

Project Manager (Engineer) **Seth Kellogg**

Date _____

Schedule 2.11 (g)

**Monthly Cost Control Report
Summary of Fiscal Information**

Engineer Camp Dresser & McKee
 Contract No. D004437
 Project Name Villa Dry Cleaners
 Work Assignment No. D004437-32
 Task #/Name Task 6 -Feasibility Study
 Complete 0%

Page 7 of 7
 Date Prepared _____
 Billing Period _____
 Invoice No. _____

<i>Expenditure Category</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
	<i>Costs Claimed This Period</i>	<i>Paid to Date</i>	<i>Total Disallowed to Date</i>	<i>Total Costs Incurred to Date (A+B+C)</i>	<i>Estimated Costs to Completion</i>	<i>Estimated Total Work Assignment Price (A+B+E)</i>	<i>Approved Budget</i>	<i>Estimated Under/Over (G-F)</i>
1. Direct Salary Costs	\$0	\$0	\$0	\$0			\$12,735	
2. Indirect Costs	\$0	\$0	\$0	\$0			\$21,381	
3. Subtotal Direct Salary Costs and Indirect Costs	\$0	\$0	\$0	\$0			\$34,116	
4. Travel	\$0	\$0	\$0	\$0			\$191	
5. Other Non-Salary Costs	\$0	\$0	\$0	\$0			\$1,100	
6. Subtotal Direct Non-Salary Costs	\$0	\$0	\$0	\$0			\$1,291	
7. Subcontractors	\$0	\$0	\$0	\$0			\$0	
7a. Subcontract Mgt. Fee	\$0	\$0	\$0	\$0			\$0	
8. Total Work Assignment Cost	\$0	\$0	\$0	\$0			\$35,406	
9. Fixed Fee	\$0	\$0	\$0	\$0			\$2,388	
10. Total Work Assignment Price	\$0	\$0	\$0	\$0			\$37,794	

Project Manager (Engineer) Seth Kellogg

Date _____

Cost Control Report for Subcontracts

Engineer Camp Dresser & McKee
 Contract No. D004437
 Project Name Villa Dry Cleaners
 Work Assignment No. D004437-32

Page 8 of 8
 Date Prepared _____
 Billing Period _____
 Invoice No. _____

<i>Subcontract Name</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>
	<i>Subcontract Costs Claimed this Application Inc. Resubmittals</i>	<i>Subcontract Costs Approved for Payment on Previous Applications</i>	<i>Total Subcontract Costs to Date (A plus B)</i>	<i>Subcontract Approved Budget</i>	<i>Management Fee Budget</i>	<i>Management Fee Paid</i>	<i>Total Costs to Date (C plus F)</i>
1. Ken Schider	\$0	\$0	\$0	\$1,800	\$0	\$0	\$0
2. SeaCoast Environmental	\$0	\$0	\$0	\$23,644	\$1,182	\$0	\$0
3. Bryant Associates	\$0	\$0	\$0	\$10,328	\$516	\$0	\$0
4. Nancy Potak	\$0	\$0	\$0	\$4,583	\$229	\$0	\$0
5. Advanced Drilling	\$0	\$0	\$0	\$84,928	\$4,246	\$0	\$0
6. Zebra Environmental	\$0	\$0	\$0	\$87,064	\$4,353	\$0	\$0
7. Mitkem Corporation	\$0	\$0	\$0	\$15,351	\$768	\$0	\$0
8. ECCS	\$0	\$0	\$0	\$61,600	\$3,080	\$0	\$0
9. Naeva	\$0	\$0	\$0	\$4,000	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$293,298	\$14,375	\$0	\$0

Project Manager (Engineer) Seth Kellogg

Date _____

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

Date Prepared _____
Billing Period _____
Invoice No. _____

<i>NSPE Labor Classification</i>	<i>IX Exp/Est</i>	<i>VIII Exp/Est</i>	<i>VII Exp/Est</i>	<i>VI Exp/Est</i>	<i>V Exp/Est</i>	<i>IV Exp/Est</i>	<i>III Exp/Est</i>	<i>II Exp/Est</i>	<i>I Exp/Est</i>	<i>Admin.</i>	<i>Total No. of Direct Labor Hrs. Exp/Est</i>
Task 1	0 / 24	0 / 8	0 / 0	0 / 80	0 / 0	0 / 80	0 / 0	0 / 20	0 / 0	0 / 20	0 / 232
Task 2	0 / 0	0 / 2	0 / 0	0 / 20	0 / 0	0 / 10	0 / 0	0 / 0	0 / 4	0 / 4	0 / 40
Task 3	0 / 0	0 / 0	0 / 0	0 / 16	0 / 0	0 / 16	0 / 48	0 / 0	0 / 16	0 / 0	0 / 96
Task 4	0 / 12	0 / 3	0 / 0	0 / 56	0 / 652	0 / 72	0 / 312	0 / 0	0 / 600	0 / 0	0 / 1707
Task 5	0 / 12	0 / 36	0 / 0	0 / 120	0 / 0	0 / 130	0 / 150	0 / 0	0 / 120	0 / 16	0 / 584
Task 6	0 / 12	0 / 40	0 / 0	0 / 128	0 / 0	0 / 0	0 / 60	0 / 0	0 / 60	0 / 16	0 / 316
Total Hours	0 / 60	0 / 89	0 / 0	0 / 420	0 / 652	0 / 308	0 / 570	0 / 20	0 / 800	0 / 56	0 / 2975

Appendix C

Subcontractor Price Comparisons

Cost Review for Work Plan or Amendment

Contractor Name: CDM
WA # and Name: #32 Villa Dry Cleaner

Date:
Reviewer:

	GENERAL COST REVIEW CHECKLIST	Yes	No	Comments
	A complete set of 2.11 Schedules (a) through (h) is attached.	X		
	For grouped work assignments, Schedule 2.11s are broken down by site.			NA
1.	Schedule 2.11(b) - Direct Labor			
	Average reimbursement rates are used for each year. Future years escalate 3%	X		
	Hours are segregated by year.	X		
	Total cost for each NSPE level is shown.	X		
	Total direct labor costs match amounts on Schedule 2.11(a).	X		
	The Principal's (NSPE level 9) labor hours charged to WA are less than 2% of the total.	X		
	Total labor hours match hours on Schedule 2.11(h).	X		
2.	Schedule 2.11(b-1) - Direct Administrative Labor Hours			
	Breakdown of Schedule 2.11(b-1) is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
3.	Schedules 2.11(c) and (d) - Direct Non-Salary Costs			
	Rates listed in Schedule 2.11(c) are consistent with contract.	X		
	Rates for in-house and/or miscellaneous costs match contract Schedule 2.10(b).	X		
	Quotes are included for any non-contract item (<u>including</u> equipment purchases & rentals; <u>excluding</u> air fare) >\$1k. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X		
	All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR. If they're not in ICR, they are included in 2.10(b) or 2.10(c). Field costs must be receipted.	X		
	Appropriate lodging/per diem/mileage rates are used.	X		
	Schedule 2.11(d)1 - All equipment purchased is supported by cost justification that's acceptable to the CM. Equipment is to be maintained by the contractor or turned over to DEC, and it must be added to contractor's inventory list (include a revised copy).	X		
	Schedule 2.11(d)2 - Rates for consultant-owned equipment match Schedule 2.10(c).	X		
	Schedule 2.11(d)4 - Includes equipment to be used only on this WA (such as a blower purchased to upgrade SVE system).			NA
	Other direct costs (no. of field days, lodging, and field equipment usage) are reasonable based on field work schedule or supporting documentation.	X		
	Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X		
4.	Schedule 2.11(e) - Cost-plus-fixed-fee subcontracts			
	Proposed subconsultant is on standby or has DEC-approved rates with another standby consultant. Otherwise, financial information required for cost analysis must be submitted.	X		

	Schedule 2.11(e) - Continued	Yes	No	Comments
	Standby subcontract is active and rates (salary, direct and indirect costs, and fixed fee) match contract rates.	X		
	A breakdown of direct non-salary costs in the form of additional Schedule 2.11s is attached, if appropriate.			NA
	Total subcontract cost matches amount on Schedule 2.11(a).	X		
	Subcontractor has justified/obtained adequate quotes for any further subcontracted work.	X		
	Subcontractor certification(s) have been submitted.	X		
5.	Schedule 2.11(f) - Unit Price Subcontracts			
	There are quotes for non-standby subcontracts >\$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.			NA
	Standby Drillers (Two phase process) - Costs from at least 3 standbys (or additional quotes from non-standby drillers) are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected.	X		
	M/WBE - Cost reasonableness of sole/single source M/WBE contracts <\$10K are documented by an engineer's estimate.			NA
	Justification attached for subcontracts >\$100,000 supporting a determination not to design and competitively bid the work. Response-type activities (drum removals, other construction-type activities) must be competitively bid, unless otherwise approved			NA
	Correct management fee is calculated only on non-professional unit priced subs >\$10k and M/WBE firms from \$1. (Management fee is not allowed on professional engineering firms, architects, or surveyors, unless the contract specifically allows it.)	X		
	Standby Labs and Data Validators (rotate use) - Unit cost match unit costs in contract.	X		
	Subcontractor certification(s) have been submitted.			
6.	Schedule 2.11(g) - Cost Control Report			
	Individual 2.11(g)s equal Summary 2.11(g) and costs match those on 2.11(a).	X		
	PMWP or amendment development costs are within 5% of the total WA or amendment costs. Acceptable justification has been submitted if the percentage exceeds 5%.	X		
	PMWP or amendment development costs are limited to preparing a PMWP or amendment. Additional sub-tasks, if included, have been conceptually approved.	X		
7.	Schedule 2.11(g) Supplemental - Cost Control Report (subs)			
	Schedules include all applicable subcontracts and management fees (for unit price only).	X		
8.	Schedule 2.11(a)			
	Rates for indirect and fixed fee match contract rates.	X		
	All numbers rolled up into Schedule 2.11(a) add up.	X		
9.	Additional Cost Information/Comments			

Well Drillers

Delta Well and Pump Company					Aztech					Advanced Drilling					Declined to bid	
Item	Unit Cost	Unit	Est. No. of Units	Total Est. Cost	Item	Unit Cost	Unit	Est. No. of Units	Total Est. Cost	Item	Unit Cost	Unit	Est. No. of Units	Total Est. Cost		
1. GENERAL					1. GENERAL					1. GENERAL					LAWES GeoEnvironmental SGS Nothnagle GeologicNY American Auger and Ditch	
1a Mobilization (includes construct/deconstruct decon pad)	\$ 8,375.00	lump	1	\$ 8,375.00	1a Mobilization (includes construct/deconstruct decon pad)	\$ 8,555.00	lump	1	\$ 8,555.00	1a Mobilization (includes construct/deconstruct decon pad)	\$ 1,500.00	lump	1	\$ 1,500.00		
1b Personal protective equipment	\$ 50.00	day	25	\$ 1,250.00	1b Personal protective equipment	\$ -	day	25	\$ -	1b Personal protective equipment	\$ -	day	25	\$ -		
1c Hand dig	\$ 200.00	hour	6	\$ 1,200.00	1c Vactron	\$ 350.00	day	6	\$ 2,100.00	1c Hand dig	\$ 325.00	hour	6	\$ 1,950.00		
1d Steam Cleaning	\$ 180.00	hour	18	\$ 3,240.00	1d Steam Cleaning	\$ 135.00	hour	18	\$ 2,430.00	1d Steam Cleaning	\$ 225.00	hour	18	\$ 4,050.00		
1e Steam cleaner rental	\$ 25.00	day	25	\$ 625.00	1e Steam cleaner rental	\$ 95.00	day	25	\$ 2,375.00	1e Steam cleaner rental	\$ -	day	25	\$ -		
1f 55-Gallon Drums (contain cuttings)	\$ 50.00	each	100	\$ 5,000.00	1f 55-Gallon Drums (contain cuttings)	\$ 70.00	each	150	\$ 10,500.00	1f 55-Gallon Drums (contain cuttings)	\$ 45.00	each	150	\$ 6,750.00		
1g Transport/Handling of IDW (per drum)	\$ 15.00	each	100	\$ 1,500.00	1g Transport/Handling of IDW (per drum)	\$ 55.00	each	150	\$ 8,250.00	1g Transport/Handling of IDW (per drum)	\$ 25.00	each	150	\$ 3,750.00		
1h Well Development	\$ 180.00	hour	48	\$ 8,640.00	1h Well Development	\$ 108.00	hour	48	\$ 5,184.00	1h Well Development	\$ 225.00	hour	48	\$ 10,800.00		
1i Development water handling*	\$ 225.00	hour	8	\$ 1,800.00	1i Development water handling	\$ -	hour	8	\$ -	1i Development water handling*	\$ -	hour	8	\$ -		
1j Standby crew and rig	\$ 200.00	hour	1	\$ 200.00	1j Standby crew and rig	\$ 150.00	hour	1	\$ 150.00	1j Standby crew and rig	\$ 225.00	hour	1	\$ 225.00		
2 man crew	\$ 150.00	hour	1	\$ 150.00	2 man crew	\$ 110.00	hour	1	\$ 110.00	2 man crew	\$ -	hour	1	\$ -		
1k per diem	\$ 100.00	day	25	\$ 2,500.00	1k per diem	\$ 265.00	day	25	\$ 6,625.00	1k per diem	\$ 325.00	day	25	\$ 8,125.00		
1l Decon of split spoons	\$ 200.00	hour	6	\$ 1,200.00	1l Decon of split spoons	\$ 135.00	hour	6	\$ 810.00	1l Decon of split spoons	\$ 225.00	hour	6	\$ 1,350.00		
1m Water tanker rental*	\$ 300.00	day	25	\$ 7,500.00	1m Generator	\$ 45.00	day	25	\$ 1,125.00	1m Water tanker rental*	\$ -	day	25	\$ -		
1n Asphalt/concrete removal	\$ 350.00	hour	4	\$ 1,400.00						1n Asphalt/concrete removal	\$ 225.00	hour	4	\$ 900.00		
2. Monitoring Well Installation					2. Monitoring Well Installation					2. Monitoring Well Installation						
2a 4.25 inch diameter hollow stem auger (0-50')	\$ 20.00	each	300	\$ 6,000.00	2a 4.25 inch diameter hollow stem auger	\$ 18.00	each	270	\$ 4,860.00	2a 4.25 inch diameter hollow stem auger (0-50')	\$ 26.00	each	150	\$ 3,900.00		
2b 4.25 inch diameter hollow stem auger (50-100')	\$ 20.00	each	270	\$ 5,400.00	2b Mud rotary (nominal 4 inch)	\$ 45.00	each	525	\$ 23,625.00	2b 4.25 inch diameter hollow stem auger (50-100')	\$ 35.00	each	60	\$ 2,100.00		
2c 4.25 inch diameter hollow stem auger (100-200')	\$ 45.00	each	225	\$ 10,125.00	2c Split spoon sampling (90 to 100 feet bgs)	\$ 35.00	each	6	\$ 210.00	2c 6" mud rotary drilling (0-175')	\$ 32.00	each	525	\$ 16,800.00		
2d Split spoon sampling (90 to 100 feet bgs)	\$ 50.00	each	6	\$ 300.00	2d Split spoon sampling (100 to 175 feet bgs)	\$ 50.00	each	48	\$ 2,400.00	2d Split spoon sampling (90 to 100 feet bgs)	\$ 37.00	each	6	\$ 222.00		
2e Split spoon sampling (100 to 175 feet bgs)	\$ 75.00	each	48	\$ 3,600.00						2e Split spoon sampling (100 to 175 feet bgs)	\$ 37.00	each	48	\$ 1,776.00		
3. Materials					3. Materials					3. Materials						
3a 2-inch dia., Schedule 40 PVC well casing	\$ 4.00	foot	735	\$ 2,940.00	3a 2-inch dia., Schedule 40 PVC well casing	\$ 4.00	foot	735	\$ 2,940.00	3a 2-inch dia., Schedule 40 PVC well casing	\$ 24.00	foot	735	\$ 17,640.00		
3b 2-inch dia., Schedule 40 PVC, 10-slot well screen	\$ 5.00	foot	60	\$ 300.00	3b 2-inch dia., Schedule 40 PVC, 10-slot well screen	\$ 5.00	foot	60	\$ 300.00	3b 2-inch dia., Schedule 40 PVC, 10-slot well screen	\$ 24.00	foot	60	\$ 1,440.00		
3c Well Completion Materials (sand pack)	\$ 8.00	foot	72	\$ 576.00	3c Well Completion Materials (sand pack)	\$ 5.00	foot	72	\$ 360.00	3c Well Completion Materials (sand pack)	\$ -	foot	72	\$ -		
3d Well Completion Materials (bentonite seal)	\$ 25.00	foot	12	\$ 300.00	3d Well Completion Materials (bentonite seal)	\$ 9.00	foot	12	\$ 108.00	3d Well Completion Materials (sand pack)	\$ -	foot	72	\$ -		
					3e Well Completion Materials (grout)	\$ 7.00	foot	711	\$ 4,977.00	3d Well Completion Materials (bentonite seal)	\$ -	foot	12	\$ -		
3e Well Completion Materials (grout)	\$ 15.00	foot	711	\$ 10,665.00	3f Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	\$ 125.00	each	6	\$ 750.00	3e Well Completion Materials (grout)	\$ -	foot	711	\$ -		
3f Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	\$ 225.00	each	6	\$ 1,350.00						3f Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	\$ 275.00	each	6	\$ 1,650.00		
TOTAL				\$ 86,136.00	TOTAL				\$ 88,744.00	TOTAL				\$ 84,928.00		
* Instead of using drums to transport the development water, Delta will use a small tank. The daily tank rental will be reimbursed under item 1m and emptying the tank into the 5,000 gallon tank at the staging area will be covered under item 1i										* Instead of using drums to transport the development water, Delta will use a small tank. The daily tank rental will be reimbursed under item 1m and emptying the tank into the 5,000 gallon tank at the staging area will be covered under item 1i						

Mobile Laboratory

S ² C ² inc.				
Item	Unit	# of Samples	Unit Cost \$	Ext. Cost \$
1 Mobilization/demobilization	Lump	1	\$ 1,200.00	\$ 1,200.00
2 Per diem	per day	26	\$ 200.00	\$ 5,200.00
3 Day rate	per day	26	\$ 1,500.00	\$ 39,000.00
4 Bottle ware (included in day rate)	per sample	300	\$ -	\$ -
5 Excess Sample Charge*	per sample	78	\$ 100.00	\$ 7,800.00
6 Weekend Travel Charge	each	6	\$ 300.00	\$ 1,800.00
7 Generator [#]	per day	35	\$ 200.00	\$ 7,000.00
TOTAL				\$ 62,000.00

* The laboratory imposes an excess sample charge for all samples over 12 samples per day. CDM is assuming 15 samples per day, so an additional 3 samples per day (or 78 samples) are assumed

[#] Generator fees are charged 7 days per week

Environmental Chemistry Consulting Services, Inc.				
Item	Unit	# of Samples	Unit Cost \$	Ext. Cost \$
1 Mobilization/demobilization	Lump	1	\$ 2,500.00	\$ 2,500.00
2 Per diem	per day	26	\$ 200.00	\$ 5,200.00
3 Day rate	per day	26	\$ 1,650.00	\$ 42,900.00
4 Bottle ware (included in day rate)	per sample	300	\$ -	\$ -
5 Staff change out	each	2	\$ 1,000.00	\$ 2,000.00
6 Generator	per week	5	\$ 1,800.00	\$ 9,000.00
TOTAL				\$ 61,600.00

Environmental Management Associates				
Item	Unit	# of Samples	Unit Cost \$	Ext. Cost \$
1 Mobilization/demobilization	Lump	1	\$ 1,000.00	\$ 1,000.00
2 Per diem	per day	26	\$ 300.00	\$ 7,800.00
3 Day rate	per day	26	\$ 1,750.00	\$ 45,500.00
4 Bottle ware (included in day rate)	per sample	300	\$ 2.00	\$ 600.00
5 Overtime (beyond 8 hours)	per hour	52	\$ 300.00	\$ 15,600.00
TOTAL				\$ 70,500.00

notes:

1) Laboratory can only run 11 samples per day

2) Laboratory cannot run requested analysis. They run a modified list with a higher

3) The project is planned to be onsite for 10 hours per day. The day rate provided assumes an 8 hour day with \$300 per hour for overtime. CDM assumes 2 hours of overtime will be required per day

ANALYTICAL LABORATORIES															
Chemtech							Mitkem								
ITEM	METHOD	QUANTITY	TAT	REPORTING	UNIT PRICE	SUBTOTAL	ITEM	METHOD	QUANTITY	TAT	REPORTING	UNIT PRICE	SUBTOTAL		
Aqueous							Aqueous								
1	TCL VOCs	EPA SOW OLC03.2	42	21-Day	Superfund	\$120.75	\$ 5,071.50	1	TCL VOCs	EPA SOW OLC03.2	42	21-Day	Superfund	\$ 69.00	\$ 2,898.00
2	Anions Group 1 (nitrate/nitrite, sulfate, Chloride)	IC 300	33	21-Day	Category A	\$ 63.00	\$ 2,079.00	2	Anions Group 1 (nitrate/nitrite, sulfate, Chloride)	IC 300	33	21-Day	Category A	\$ 40.00	\$ 1,320.00
3	Sulfate- See above		33	21-Day	Category A			3	Sulfate- See above		33	21-Day	Category A	\$ 20.00	\$ 660.00
4	Chloride- See above		33	21-Day	Category A			4	Chloride- See above		33	21-Day	Category A	\$ 15.00	\$ 495.00
5	Alkalinity	SM2320 B	33	21-Day	Category A	\$15.75	\$ 519.75	5	Alkalinity	SM2320 B	33	21-Day	Category A	\$ 5.00	\$ 165.00
6	Total organic carbon	SM5310 B	33	21-Day	Category A	\$45	\$ 1,485.00	6	Total organic carbon	SM5310 B	33	21-Day	Category A	\$ 30.00	\$ 990.00
7	Methane, ethane, ethene	3810	42	21-Day	Category A	\$85.00	\$ 3,570.00	7	Methane, ethane, ethene	3810	42	21-Day	Category A	\$ 75.00	\$ 3,150.00
Aqueous MS/MSD							Aqueous MS/MSD								
8	TCL VOCs MS/MSD	EPA SOW OLC03.2	4	21-Day	Superfund	\$ 126.00	\$ 504.00	8	TCL VOCs MS/MSD	EPA SOW OLC03.2	4	21-Day	Superfund	\$ 69.00	\$ 276.00
Soils							Soils								
9	TCL VOCs	8260B	9	21-Day	Superfund	\$ 90.00	\$ 810.00	9	TCL VOCs	8260B	9	21-Day	Superfund	\$ 69.00	\$ 621.00
Soil MS/MSD							Soil MS/MSD								
10	TCL VOCs MS/MSD	8260B	2	21-Day	Superfund	\$ 90.00	\$ 180.00	10	TCL VOCs MS/MSD	8260B	2	21-Day	Superfund	\$ 69.00	\$ 138.00
IDW							IDW								
11	Full TCLP		6	21-Day	Category A	\$578.75	\$ 3,472.50	11	Full TCLP		6	21-Day	Category A	\$ 628.00	\$ 3,768.00
12	RCRA characteristics (ignitability, corrosivity, reactivity)		6					12	RCRA characteristics (ignitability, corrosivity, reactivity)		6				
13	PCB	8082	6	21-Day	Category A	\$ 84.00	\$ 504.00	13	PCB	8082	6	21-Day	Category A	\$ 85.00	\$ 510.00
Subtotal-Subcontract Price							Subtotal-Subcontract Price								
\$ 18,573.75							\$ 15,351.00								
EPA issued MUR (Method update rule) changing methodology approaches							1 - Price includes analysis and reporting of both nitrate and nitrite								
ASP -MS/MSD Frequency rules (Each Group of samples of similar matrix , ONCE															
*Each Sample delivery Group received or															
*Each 20 field samples or															
* Each 7 Calendar day during which field samples in a SDG were received															

SURVEYORS				
Company	Bryant	Hirani	Popli	S.Y. Kim
Cost	\$10,328.00	\$16,500.00	\$15,090.00	Declinded to bid

IDW

IDW TRANSPORTATION AND DISPOSAL												
ITEM	Estimated quantity Quantity	Unit	SeaCoast Environmental Assocs., Inc.		Innovative Recycling Technologies, Inc.		Miller Environmental Group		AWT Environmental Services Inc.		Clean Earth of N. Jersey	
			Contact	E. R. Streiter	Contact	John Ewen	Contact	Adam Libuser	Contact	Tim Roper	Contact	Robert H. Morrow
			Address	716 Newman Springs Rd, PMB 292 Lincroft, NJ 07738	Address	690 No. Queens Ave. Lindenhurst, NY 11757	Address	1300 Shames Drive Westbury, NY 11590	Address	P.O. Box 128 Sayreville, NJ 08871	Address	115 Jacobus Avenue South Kearny, NJ 07032
			Telephone	732-275-1616	Telephone	631 225-3044	Telephone	516-876-7940 ext 312	Telephone	800-732-7701	Telephone	973-344-4004
			Fax	732-275-1661	Fax	631 225-3056	Fax	516-876-7946	Fax	732-613-1536	Fax	973-344-8652
			email	streiterseacoast@aol.com	email	jewen@irtwaste.com	email	alibuser@millerenv.com	email	troper@awtenvironmental.com	email	rmorrow@cleanearthinc.com
			Unit Rate	Subtotal	Unit Rate	Subtotal	Unit Rate	Subtotal	Unit Rate	Subtotal	Unit Rate	Subtotal
Supply 5,000 gallon frac tank												
Mobilization	1	each	\$810.00	\$810.00	\$900.00	\$900.00	\$700.00	\$700.00	\$450.00	\$450.00	\$750.00	\$750.00
Tank rental	5	month	\$730.00	\$3,650.00	\$775.00	\$3,875.00	\$1,500.00	\$7,500.00	\$540.00	\$2,700.00	\$850.00	\$4,250.00
Tank cleaning	1	each	\$1,400.00	\$1,400.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,475.00	\$1,475.00	\$1,000.00	\$1,000.00
Demobilization	1	each	\$810.00	\$810.00	\$900.00	\$900.00	\$700.00	\$700.00	\$450.00	\$450.00	\$750.00	\$750.00
Handling transportation and disposal of water from tank												
Handling/transportation	1	load	\$1,340.00	\$1,340.00	\$1,200.00	\$1,200.00	\$250.00	\$250.00	\$1,320.00	\$1,320.00	\$1,000.00	\$1,000.00
Disposal - non-hazardous	5,000	gallon	\$0.26	\$1,300.00	\$0.25	\$1,250.00	\$0.53	\$2,650.00	\$0.45	\$5,115.00	\$0.70	\$3,500.00
Disposal - hazardous	0	gallon	\$1.26	\$0.00	\$0.61	\$0.00	\$1.10	\$0.00	\$0.72	\$0.00	\$1.50	\$0.00
Groundwater in drums												
Handling/transportation	1	load	\$200.00	\$200.00	\$250.00	\$250.00	\$700.00	\$700.00	\$700.00	\$700.00	\$575.00	\$575.00
Disposal - non-hazardous	4	each	\$56.00	\$224.00	\$95.00	\$380.00	\$155.00	\$620.00	\$90.00	\$360.00	\$60.00	\$240.00
Disposal - hazardous	0	each	\$180.00	\$0.00	\$225.00	\$0.00	\$365.00	\$0.00	\$380.00	\$0.00	\$155.00	\$0.00
Drill cuttings/mud in drums												
Handling/transportation	2	load	\$2,200.00	\$4,400.00	\$250.00	\$500.00	\$700.00	\$1,400.00	\$700.00	\$1,400.00	\$575.00	\$1,150.00
Disposal - non-hazardous	150	each	\$56.00	\$8,400.00	\$95.00	\$14,250.00	\$165.00	\$24,750.00	\$90.00	\$13,500.00	\$60.00	\$9,000.00
Disposal - hazardous	0	each	\$180.00	\$0.00	\$385.00	\$0.00	\$420.00	\$0.00	\$415.00	\$0.00	\$155.00	\$0.00
Protective gear/debris												
Handling/transportation	1	load	\$450.00	\$450.00	\$250.00	\$250.00	\$700.00	\$700.00	\$700.00	\$700.00	\$575.00	\$575.00
Disposal - non-hazardous	10	each	\$56.00	\$560.00	\$95.00	\$950.00	\$127.00	\$1,270.00	\$90.00	\$900.00	\$55.00	\$550.00
Empty Used Drums												
Handling/transportation	1	load	\$0.00	\$0.00	\$250.00	\$250.00	\$700.00	\$700.00	\$700.00	\$700.00	\$575.00	\$575.00
Disposal - non-hazardous	5	each	\$20.00	\$100.00	\$25.00	\$125.00	\$10.00	\$50.00	\$45.00	\$225.00	\$35.00	\$175.00
			TOTAL	\$23,644	TOTAL	\$26,580	TOTAL	\$43,490	TOTAL	\$29,995	TOTAL	\$24,090

GEOPROBE

Company Name & Contact Information	Aztech Technologies, Inc						Environmental Probing Investigations, Inc.						Hydro Tech Environmental Corp.						Zebra Environmental Corp.						Nothnagle Drilling, Inc.						SGS Environmental Services, Inc.					
	Matthew Darcangelo, P.E. 5 McCrea Hill Road Ballston Spa, NY 12020 518-885-5383 f 518-885-5385 MDARCANGELO@AZTK.COM						Brian Kokot 18 Honerstown Road Cream Ridge, NJ 08514 609-758-9000 brian@environmentalprobing.com						Adam DiCrescio 2171 Jericho Turnpike, Suite 345 Commack, NY 11725 (Office in Brooklyn, too) Commack: 631-462-5866 Brooklyn: 718-636-0800 f 631-462-5877 adicrescio@hydrotechenvironmental.com						Shawn Tibbets 10 Walker Way Albany, NY 12205 518-456-9922 f 518-456-4009 Shawn@zebraenv.com						Timothy Nothnagle 1821 Scottsville-Mumford Rd. Scottsville, NY 14546 585-538-2328 f 585-538-2357 TMN@NOTHNAGLEDRILLING.COM						Art Becker 328 Stafford Forge Road West Creek, NJ 08092 609-294-1110 f 609-296-8970 art.becker@sgs.com					
	WBE																																			
Description	Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost							
			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D						
Mob/Demob																																				
Mob/Demob	1	LS	\$15,433.00	\$15,433.00	\$15,433.00	\$15,433.00	1	LS	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	0	LS			\$0.00	\$0.00	1	LS	\$ 7,905.00	\$ 7,905.00	\$7,905.00	\$7,905.00												
Senior Technician/Driller		per hour			\$0.00	\$0.00		per hour			\$0.00	\$0.00	416	per hour	\$28.50	\$28.50	\$11,856.00	\$11,856.00		per hour			\$0.00	\$0.00					\$0.00	\$0.00						
Technician		per hour			\$0.00	\$0.00		per hour			\$0.00	\$0.00	416	per hour	\$23.50	\$23.50	\$9,776.00	\$9,776.00		per hour			\$0.00	\$0.00					\$0.00	\$0.00						
Permits	1	LS	\$250.00	\$250.00	\$250.00	\$250.00		LS			\$0.00	\$0.00		LS			\$0.00	\$0.00		LS			\$0.00	\$0.00					\$0.00	\$0.00						
Rig Mileage Rate		per mile			\$0.00	\$0.00		per mile			\$0.00	\$0.00		per mile	\$1.05	\$1.05	\$0.00	\$0.00		per mile			\$0.00	\$0.00					\$0.00	\$0.00						
Per Diem Rate	52	per day	\$265.00	\$265.00	\$13,780.00	\$13,780.00	52	per day	\$275.00	\$275.00	\$14,300.00	\$14,300.00	52	per day	\$30.00	\$30.00	\$1,560.00	\$1,560.00		per day					\$0.00	\$0.00			\$0.00	\$0.00						
Prevailing Wage Upcharge		per day			\$0.00	\$0.00		per day	\$400.00	\$600.00	\$0.00	\$0.00		per day			\$0.00	\$0.00		per day					\$0.00	\$0.00			\$0.00	\$0.00						
Support Truck Mileage Rate		per mile			\$0.00	\$0.00		per mile			\$0.00	\$0.00		per mile			\$0.00	\$0.00		per mile					\$0.00	\$0.00			\$0.00	\$0.00						
Utility/Hand Clearance	1	LS	\$1,400.00	\$1,400.00	\$1,400.00	\$1,400.00	1	LS	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	1	LS			\$0.00	\$0.00		LS			\$0.00	\$0.00					\$0.00	\$0.00						
Drill Rig and Crew																																				
Truck Drill Rig & Crew	52	per day	\$1,375.00	\$1,250.00	\$71,500.00	\$65,000.00	52	per day	\$1,800.00	\$1,400.00	\$93,600.00	\$72,800.00	52	per day	\$1,100.00	\$1,000.00	\$57,200.00	\$52,000.00	0	per day	\$1,375.00	\$1,300.00	\$0.00	\$0.00					\$0.00	\$0.00						
Overtime Rate		per hour	\$215.00	\$195.00	\$0.00	\$0.00		per hour	\$275.00	\$225.00	\$0.00	\$0.00	104	per hour	\$120.00	\$120.00	\$12,480.00	\$12,480.00		per hour	\$250.00	\$200.00	\$0.00	\$0.00					\$0.00	\$0.00						
Soil Sampling & Temporary Monitoring Wells																																				
3" Macro Core Soil Samples with Acetate Liners	306	each	\$6.00	\$6.00	\$1,836.00	\$1,836.00	306	each	\$7.00	\$7.00	\$2,142.00	\$2,142.00	306	each	\$3.15	\$3.15	\$963.90	\$963.90	306	each	\$9.45	\$9.45	\$2,891.70	\$2,891.70					\$2,891.70	\$2,891.70						
Sand and Bentonite Grouting of 3" hole to ground surface	1,530	per foot	\$1.50	\$1.50	\$2,295.00	\$2,295.00	1,530	per foot	\$2.00	\$2.00	\$3,060.00	\$3,060.00	0	per foot	\$11.85	\$11.85	\$0.00	\$0.00	1,530	per foot	\$1.50	\$1.50	\$2,295.00	\$2,295.00					\$2,295.00	\$2,295.00						
Groundwater Screening																																				
Hydropunch	52	day	\$100.00	\$100.00	\$5,200.00	\$5,200.00		each	\$100.00	\$100.00	\$0.00	\$0.00		each			\$0.00	\$0.00	0	each			\$0.00	\$0.00					\$0.00	\$0.00						
Other Technique (specify):		each			\$0.00	\$0.00		each			\$0.00	\$0.00		each			\$0.00	\$0.00	17	Deep SP-16 GW Samples each	\$35.00	\$35.00	\$595.00	\$595.00					\$595.00	\$595.00						
Grouting Open Boreholes																																				
Open borehole for 2 inch macrocore, high solids, bentonite grout		ft	\$1.50	\$1.50	\$0.00	\$0.00		ft	\$2.00	\$2.00	\$0.00	\$0.00		ft	\$10.85	\$10.85	\$0.00	\$0.00	0	ft	\$1.50	\$1.50	\$0.00	\$0.00					\$0.00	\$0.00						
Decontamination		per hour	\$95.00	\$80.00	\$0.00	\$0.00		per hour	\$225.00	\$175.00	\$0.00	\$0.00	34	per hour	\$45.00	\$45.00	\$1,530.00	\$1,530.00		per hour	\$0.00	\$0.00	\$0.00	\$0.00					\$0.00	\$0.00						
Standby Time		per hour	\$95.00	\$80.00	\$0.00	\$0.00		per hour	\$225.00	\$175.00	\$0.00	\$0.00	1	per hour	\$99.00	\$99.00	\$99.00	\$99.00		per hour	\$200.00	\$200.00	\$0.00	\$0.00					\$0.00	\$0.00						
55-Gallon DOT Drum	10	each	\$48.00	\$48.00	\$480.00	\$480.00	10	each	\$55.00	\$55.00	\$550.00	\$550.00	10	each	\$51.65	\$51.50	\$516.50	\$515.00	10	each	\$57.75	\$57.75	\$577.50	\$577.50					\$577.50	\$577.50						
Other																																				
Poly tubing	1,700	ft	\$0.50	\$0.50	\$850.00	\$850.00	1,700	ft	\$0.50	\$0.50	\$850.00	\$850.00	1,700	ft	\$0.55	\$0.55	\$935.00	\$935.00							\$0.00	\$0.00			\$0.00	\$0.00						
Peristaltic Pump	52	day	\$50.00	\$50.00	\$2,600.00	\$2,600.00	52				\$0.00	\$0.00	52	day	\$40.00	\$40.00	\$2,080.00	\$2,080.00							\$0.00	\$0.00			\$0.00	\$0.00						
Track Rig (6610 DT) and 2 person Crew	0	day	\$1,375.00	\$1,375.00	\$0.00	\$0.00	0				\$0.00	\$0.00					\$0.00	\$0.00							\$0.00	\$0.00			\$0.00	\$0.00						
Poly Sheeting	1	roll	\$110.00	\$110.00	\$110.00	\$110.00	1				\$0.00	\$0.00					\$0.00	\$0.00							\$0.00	\$0.00			\$0.00	\$0.00						
Overtime Rate 2 person (Per hour unless otherwise noted)		hour	\$215.00	\$195.00	\$0.00	\$0.00					\$0.00	\$0.00					\$0.00	\$0.00										\$0.00	\$0.00							
Geoprobe SP-15/16 Groundwater Profiler (expendable points)					\$0.00	\$0.00	136	each	\$15.00	\$15.00	\$2,040.00	\$2,040.00					\$0.00	\$0.00							\$0.00	\$0.00			\$0.00	\$0.00						
Geoprobe 6600 Rig Surcharge					\$0.00	\$0.00	52	day	\$200.00	\$150.00	\$10,400.00	\$7,800.00					\$0.00	\$0.00							\$0.00	\$0.00			\$0.00	\$0.00						
Geoprobe 6600					\$0.00	\$0.00					\$0.00	\$0.00					\$0.00	\$0.00	52	days	\$1,540.00	\$1,400.00	\$80,080.00	\$72,800.00					\$80,080.00	\$72,800.00						
TOTALS					\$115,734	\$109,234					\$134,942	\$111,542					\$98,996	\$93,795					\$94,344	\$87,064												
(10% Level C, 90% Level D)						\$113,181						\$119,576																		\$92,182						
% Cost increase for 2008						3%																								5.0%						
%Cost increase for 2009						5%																								5.0%						
% Cost increase for 2010						5%																								5.0%						
% Cost increase for 2011						5%																								5.0%						

Geophysical Survey			
Company	Naeva	AGS	Radar Solutions
Cost	\$4,000.00	\$5,297.00	\$4,535.00

*CDM is selecting Radar Solutions to better meet MBE/WBE goals

EQUIPMENT

Item	Enterprise Rental Car	Hertz Rental Car	Budget Rental Car
Truck Rental (per week)	\$ 548.59	\$ 566.06	\$ 563.89

Item	Pine Environmental	US Environmental	Environmental Equipment and Supply
YSI 600 XL water quality meter (per week)	\$ 165.00	\$ 275.00	\$ 600.00
Hach DR-890 Colorimeter (per day)	\$ 27.50	\$ 25.00	NA
M-scope (per day)	\$ 13.75	\$ 20.00	\$ 24.00
MiniRae (per week)	\$ 110.00	\$ 110.00	\$ 200.00
Grunfos Pump (per day)	\$ 26.13	\$ 125.00	\$ 140.00
Generator (per day)	\$ 24.75	\$ 50.00	\$ 140.00
Dust Monitor #1 MIE DR-4000 (monthly) (includes associated auxiliary equipment for upgradient community air monitoring station)	\$ 522.50	\$ 1,200.00	\$ 565.00
Dust Monitor #2 MIE DR-4000 (monthly) (includes associated auxiliary equipment for downgradient community air monitoring station)	\$ 522.50	\$ 1,200.00	\$ 565.00
PID #1 (monthly) (for downgradient community air monitoring station)	\$ 440.00	\$ 650.00	\$ 800.00
Lamp 11.7 eV Interchangeable (month) (for downgradient community air monitoring station equipped with PID #1)	\$ 123.75	\$ 180.00	\$ 570.00
PID #2 (monthly) (for breathing zone and headspace readings)	\$ 440.00	\$ 650.00	\$ 800.00
Lamp 11.7 eV Interchangeable (month) (for breathing zone and headspace readings collected with PID #2)	\$ 123.75	\$ 180.00	\$ 570.00
Combustible Gas Indicator (weekly)	\$ 82.50	\$ 150.00	\$ 150.00
JOBCOM Radio VHF JMS-141-D (for alarms on DR-4000s) (weekly)	\$ 77.00	NA	\$ 70.00
Teflon lined tubing	\$ 1.00	0.8	\$ 1.00

\$ 2,700.13 \$ 4,815.80 \$ 5,195.00



Raritan Plaza I, Raritan Center
Edison, New Jersey 08818
tel: 732-225-7000
fax: 732-225-7851

September 8, 2008

Mr. Shawn Tibbetts
ZEBRA Environmental
30 N. Prospect Avenue
Lynbrook, New York 11563

Subject: NYSDEC Standby Contract No. D004437-32
Pride Solvents and Chemical Site (Site No. 1-52-188)
Conflict of Interest

Dear Mr. Tibbetts:

Camp Dresser & McKee (CDM) intends to issue a Task Order to ZEBRA Environmental which will authorize your firm to provide services in support of our investigation for the above-referenced project. Information provided in the Attachment has been furnished by the New York State Department of Environmental Conservation (NYSDEC). The entities referenced and/or listed are those believed or acknowledged to be Potentially Responsible Parties (PRP's). Please review your firm's contractual status and/or relationship with each of the PRP's referenced and/or listed. Then complete and sign the enclosed **Conflict of Interest Certification** statement and return it to me as soon as possible. This Conflict of Interest Statement is a required element of the Prime Agreement with NYSDEC. Compensation for the contracted services will not be released without this statement. If you have any questions or need additional information, please call me in CDM's Edison, New Jersey office at 732.590.4674.

Very truly yours,

Seth Kellogg
Project Manager
Camp Dresser & McKee

Enclosures





**New York State
Department of Environmental Conservation
Division of Environmental Remediation
Standby Contract
Conflict of Interest Certification**

To the best of the Department of Environmental Conservation's knowledge, the potential responsible parties listed below are the known potential responsible parties, as of the date of the issuance of the work assignment letter.

- Vionpa Dry Cleaners, Inc., *d/b/a!* Villa Dry Cleaners, 1899 Deer Park Ave., Deer Park, NY 11729.
- No additional PRPs were identified.

A

Subcontractor Conflict of Interest Certification

The undersigned, representing **ZEBRA Environmental** hereby certifies for the
Project at 1899 Deer Park Avenue, Dee Park, Suffolk County, NY Site No. 1-52-188

- 1) That I have been informed by the Camp Dresser & McKee who the known potentially responsible parties are for the subject site, and
- 2) That to the best of my knowledge, **ZEBRA Environmental** and the employees of the firm to be assigned to this project have no conflict of interest with the work proposed at this site, and
- 3) That presently **ZEBRA Environmental** has no contracts with, nor imminent prospects of contracts with, potentially responsible parties associated with the above-named site, and
- 4) That **ZEBRA Environmental** has no responsibilities to potentially responsible parties associated with the above-named site.

Certified By:



Signature of Authorized Subcontractor Officer

Paul Fleischmann
Print Name of Officer

ZEBRA Environmental Corp
Subcontracting Firm

September 8, 2008
Date



Raritan Plaza I, Raritan Center
Edison, New Jersey 08818
tel: 732-225-7000
fax: 732-225-7851

September 4, 2008

Mr. Gene Streiter
SeaCoast Environmental Services, Inc.
716 Newman Springs Road, PMB 292
Lincroft, NJ 07738

Subject: NYSDEC Standby Contract No. D004437-32
Pride Solvents and Chemical Site (Site No. 1-52-188)
Conflict of Interest

Dear Mr. Streiter:

Camp Dresser & McKee (CDM) intends to issue a Task Order to SeaCoast Environmental Services, Inc. which will authorize your firm to provide services in support of our investigation for the above-referenced project. Information provided in the Attachment has been furnished by the New York State Department of Environmental Conservation (NYSDEC). The entities referenced and/or listed are those believed or acknowledged to be Potentially Responsible Parties (PRP's). Please review your firm's contractual status and/or relationship with each of the PRP's referenced and/or listed. Then complete and sign the enclosed **Conflict of Interest Certification** statement and return it to me as soon as possible. This Conflict of Interest Statement is a required element of the Prime Agreement with NYSDEC. Compensation for the contracted services will not be released without this statement. If you have any questions or need additional information, please call me in CDM's Edison, New Jersey office at 732-590-4674.

Very truly yours,

Seth Kellogg, P.G
Project Manager
Camp Dresser & McKee

Enclosures



Subcontractor Conflict of Interest Certification

The undersigned, representing SeaCoast Environmental Services, Inc. hereby certifies for the **Project at 1899 Deer Park Avenue, Babylon, Suffolk County, NY Site No. 1-52-188**

- 1) That I have been informed by the Camp Dresser & McKee who the known potentially responsible parties are for the subject site, and
- 2) That to the best of my knowledge, SeaCoast Environmental Services, Inc. and the employees of the firm to be assigned to this project have no conflict of interest with the work proposed at this site, and
- 3) That presently SeaCoast Environmental Services, Inc. has no contracts with, nor imminent prospects of contracts with, potentially responsible parties associated with the above-named site, and
- 4) That SeaCoast Environmental Services, Inc. has no responsibilities to potentially responsible parties associated with the above-named site.

Certified By:

A handwritten signature in black ink that reads 'Eugene R. Streiter'.

Signature of Authorized Subcontractor Officer

Eugene R. Streiter_____
Print Name of Officer
SeaCoast Environmental Services, Inc.

Subcontracting Firm
9/5/08

Date



**New York State
Department of Environmental Conservation
Division of Environmental Remediation
Standby Contract
Conflict of Interest Certification**

To the best of the Department of Environmental Conservation's knowledge, the potential responsible parties listed below are the known potential responsible parties, as of the date of the issuance of the work assignment letter.

- Villa Dry Cleaners currently owns and operates facilities at the parcel.
- No additional PRPs were identified.