New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Program Management, 12th Floor
625 Broadway, Albany, New York 12233-7012
Phone: (518) 402-9764 • **Fax:** (518) 402-9722
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

October 23, 2009

Scott Underhill, P.E.
AECO Technical Services Northeast, Inc.
40 British American Boulevard
Latham, NY 12110

RE: Schedule 2.11s Approval
Contract/WA No.: D004436-32
Site Name: Utility Mfg/Wonder King
Site # 130043H

Dear Mr. Underhill:

The New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) hereby approves the enclosed Schedule 2.11s for the above referenced WA for a total amount not to exceed $132,651. Your firm may now submit a request for reimbursement for work completed under this WA.

If you have any questions regarding the WA, please contact the Project Manager, Jeffrey Dyber at (518) 402-9621.

Sincerely,

Michael J. Cruden, P.E.
Chief
Contracts and Payments Section
Bureau of Program Management
Division of Environmental Remediation

ec: J. Dyber
P. Kappeller
D. Desnoyers
S. Ervolina
D. Weigel
C. Vasudevan
G. Bobersky
D. Finlayson
T. Wolosen
M/WBE Unit

AECOM

UTILITY MANUFACTURING/ WONDER KING
OPERABLE UNIT 2
Submittal #2

Site # 130043H
Utility Manufacturing/Wonder King
Work Assignment # D004436-32

Submitted to:
Patricia Kappeller
Contract Manager, NYSDEC

Prepared for:
Superfund Standby Program
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York, 12233

Prepared by:
AECOM Technical Services Northeast, Inc.
40 British American Blvd
Latham, NY 12110

October 09

AECOM Project No. 114310

AECOM
300 Broadacres Drive, Bloomfield, NJ 07003
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October 10, 2009

NYS Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Program Management
625 Broadway, 12th Floor
Albany, NY 12233-7012

Attn: Patricia Kappeller, Contract Manager

Dear Ms. Kappeller,

Subject: **Utility Manufacturing/Wonder King, Operable Unit 2**
Site No. 130043H
Work Assignment No. D004436-32
Remedial Design and Construction Inspection

Attached please find revised 2.11s, subcontract certifications, a summary of bids and a cost checklist for the above-referenced project in response to your email dated July 16, 2009 to Scott Underhill. The scope of work consists of project scoping, preparation of plans and specifications, oversight of construction services including sub-slab depressurization system (SSDS) installation at three facilities (Properties 2, 6 and 9) and installation of six monitoring wells, and one round of groundwater and indoor air sampling. NYSDEC's work plan template calls for three years of long term monitoring. Per your instruction, the scope is limited to 16 months. Therefore, the cost for only one round of sampling is included in the 2.11s. Task details are provided below.

1.0 SCOPE OF WORK

1.1 TASK 1 - SCOPING

This task consists of one site visit for two employees, development of the 2.11s, progress schedules and development of a summary for the repository. The site visit was conducted on August 14, 2009. The site location is shown on Figure 1.

The procedures for implementing these investigative components are detailed below.

1.2 TASK 2 – PLANS AND SPECIFICATIONS

AECOM will design and install a sub-slab depressurization system at the facilities listed below.

- Structure 2
- Structure 6
- Structure 9

It should be noted that the sub-slab depressurization system will be installed only in the western portion of the building (occupied by office space and warehouse) located at Structure 2. The remaining portion of the building is used as an active production/workshop area. No access was granted to AECOM to this portion of the building during the supplemental Remedial Investigation. A

photoionization detector (PID) reading of 10 parts per million (ppm) was recorded near the door leading to the production/workshop area. AECOM was denied access to take the product inventory or to determine chemical usage inside the production/workshop area. AECOM believes that the elevated PID reading may be due to the chemical usage in the production/warehouse area. Therefore, no sub-slab depressurization system will be designed or installed for the remainder of the building that is used as a production area. In addition, a sub-slab depressurization system will only be installed in the office space portion of the building located at Structure 9. No sub-slab depressurization system will be installed in the area of the Structure 9 that is occupied by a Parking Deck as this portion is well ventilated and open to air. Unless otherwise noted, it is assumed that all field work will be completed in United States Environmental Protection Agency (USEPA) Level D protection. It is assumed that all field activities will be monitored by one or more AECOM representatives.

The pre-design study will be conducted during the heating season, starting in November and ending in March.

To accomplish the remedial design, the subtasks discussed below are proposed.

- Conceptual Design
  - Conduct a Pre-design Investigation
- Draft Design
- Final Design
- Project Cost Estimate

1.2.1 Subtask 02.01 – Conceptual Design

1.2.1.1 Review of Building Information

Prior to commencing the SSD system design, AECOM will obtain the as-built drawings from the current property owners, if available. In addition, AECOM will review the as-built drawings. The information presented on the as-built drawings will be verified during the pre-design investigation

1.2.1.2 Building Differential Pressure

Soil gases are usually pulled into a building due to lower air pressure inside the building than outside. The differential pressure is usually caused by environmental factors (wind or temperature), building appliances (heating/cooling system air handler or exhaust fan) and occupant effects (closing certain interior doors). The extent of this differential pressure is important for the design of sub-slab depressurization system.

AECOM will perform the steps outlined below for determining building differential pressure:

1. AECOM will visually inspect the buildings to identify the zones that may be separated from one another by closed doors. Likewise location of air return and supply, appliance that may potentially depressurize the building will be marked on the as-built drawings obtained from the owner.
2. From a convenient location, AECOM will run one length of tubing from the REFERENCE port of manometer to the outside of the building through a door that will close over the tube without pinching or severing it. The exposed end of the tubing will be protected with some kind of diffuser if there is excessive wind. AECOM will run the other length of tubing from the SIGNAL port of manometer to the space to be tested.
3. All exterior doors, windows and other openings will be closed. All interior doors will be opened and the air handler and potentially depressurizing appliances will be switched off. The building differential pressure will be measured.
4. With all the same conditions and all the potentially depressurizing units switched on, the

building differential pressure to identify worst case scenario will be measured and recorded.
5. Step 4 will be repeated with all or selected interior doors open.

1.2.1.3 Sub-Slab Pressure Field Extension Measurements

Sub-slab pressure field extension measurement and sub-slab pressure flow characteristics provide the most useful information during the design of a SSD system. The effective field radius of extension (r) can be determined for each slab based on the sub-slab pressure field extension measurement test indicating likely coverage for a suction point. The sub-slab pressure field extension may be limited in at least two ways.

- The pressure field cannot extend past the point where there is a footing or other obstruction through which air cannot flow, therefore it is important to treat each slab separately.
- The pressure field cannot extend past the point where there is a crack or high permeability access to indoor or outdoor air.

AECOM will perform the steps outlined below for determining sub-slab pressure field extension;

1. Based on the review of the as-built drawings, locations of underground utilities, and concurrence of the property owner/tenant, AECOM will identify locations for suction hole(s) and pressure sample holes.
2. Pressure test holes will be located between 6 feet (ft) to 15 ft from the nearest exterior wall, and no closer than 30 ft from one another. They will be located so as to maximize area and floor/wall joint coverage within a 15 ft to 25 ft radius of the suction hole.
3. Pressure test holes will be located as available, at a radial distance of 3 ft, 9 ft and 15 ft from the nearest suction hole in two or three directions. Additionally one (1) pressure test hole (baseline hole) will be located at 1 ft from each of the suction holes. Locations of all the pressure and suction holes will be shown on the building floor plan.
4. Approximately 1.5 – 2 inch suction test hole will be drilled through the slab at designated location(s) and sealed with rope caulk. 3/8 inch pressure test holes will be drilled through the slab and sealed as above.
5. Before conducting the sub-slab pressure field extension measurements, pressure at each sample hole(s) will be measured. These measurements will provide information regarding depressurization caused due to environmental conditions and operating household appliances.
6. A Radonaway RP265 or Fantech HP220 fan or industrial vacuum cleaner will be used to draw soil gas through the suction hole(s).
7. Initially the fan/vacuum cleaner will be operated so as to create at 1.5 - 2 inch WC pressure differential at the baseline hole and the pressure differentials at the pressure test holes will be measured and recorded.
8. The pressure differentials measured before and after the operation of fan/vacuum cleaner will be compared to identify the effective radius of extension (r). The effective radius of extension (r) will be the distance from the suction hole to the pressure test hole(s) where the minimum pressure differential is greater than 1 Pascal (0.004 in WC).
9. To measure the sub-slab pressure-flow characteristics, the fan/vacuum cleaner will be operated so as to create different pressure differential at the baseline test hole (0.5 inch WC, 1 inch WC, 1.5 inch WC and 2 inch WC) and the flow rates for the specific pressure differentials at the baseline test holes will be measured, respectively. The pressure-flow relationship will be further used to plot a sub-slab flow curve for each of the buildings.

A visual inspection will be conducted to check for potential soil gas entry points into the building shell. The cracks and utility penetrations are the likely candidates, and there may be other soil gas entry points. Potential entry points will be sealed, if possible, and pressure testing will be repeated.

It is important to understand that for commercial properties, where the grade below slabs are compacted and thus result in low permeable soils, sufficient time will be provided for the pressure

field to be developed.

1.2.1.4 Conceptual Design

Following completion of the pre-design study, AECOM will prepare a conceptual SSD system design for NYSDEC review. Planning and designing the SSD system includes determining the number of suction points, determining placement of suction holes, determining the size and capacity of the fan and determining the optimum size (diameter) of the pipe. The design of the SSD system will be based on the information collected during the pre-design investigation. The location of the suction points will be selected based on the input received from the property owner/tenants. The SSD system design, consisting of drawing of each building showing the locations of the suction points, piping (including piping support) and the extraction fan, will be submitted to NYSDEC for review..

Based on experience on similar projects, AECOM has completed a preliminary design of the sub-slab depressurization system for buildings located on the three properties. The design parameters stated below are being included to give NYSDEC an estimate on the size of the system that may be needed for each of the building

Structure 2

1. Approximate area of the building: 25,200 square feet (sf) (140 ft x 180 ft)
2. Assumed field radius of extension: 25 ft
3. Number of suction points: 13
4. Approximate length of 4-inch pipe run: 600 ft
5. Approximate length of 6-inch pipe run: 700 ft
6. Fan selected: Radonaway RP265 (three units)

Structure 6

1. Approximate area of the building: 6,400 sf (80 ft x 80 ft)
2. Assumed field radius of extension: 25 ft
3. Number of suction points: 5
4. Approximate length of 4-inch pipe run: 400 ft
5. Approximate length of 6-inch pipe run: 200 ft
6. Fan selected: Radonaway RP265 (two units)

Structure 9

1. Approximate area of the building: 25,200 sf (140 ft x 180 ft)
2. Assumed field radius of extension: 25 ft
3. Number of suction points: 13
4. Approximate length of 4-inch pipe run: 600 ft
5. Approximate length of 6-inch pipe run: 700 ft
6. Fan selected: Radonaway RP265 (three units)

The actual design will be refined based on the findings of the pre-design investigation

1.2.2 Subtasks 02.02 – Draft SSD System Design

The draft design will incorporate NYSDEC's comments on the conceptual design. The submittal will consist of draft design calculations, drawings, specifications, bid quantity estimates, cost estimates, a description of access and permit issues and draft measurements for payment. Three copies of the preliminary design will be provided to NYSDEC for review. The submittal will be a complete draft design which will be finalized based on DEC comments.

1.2.3 Subtasks 02.03 - Final SSD System Design

The final design will address all of NYSDEC's comments on the draft design. The submittal will consist of final contract documents, and quantity estimates and a list of required permits/access agreements. The design will have a PE seal.

. The actual design will be refined based on the findings of the pre-design investigation. The final design will include instrumentation to measure the suction induced by the sub-slab depressurization system. The final design will be signed and sealed by a Professional Engineer who is registered in New York State.

1.2.4 Subtasks 02.04 – Project Cost Estimate

As part of the draft design package, a project cost estimate will be prepared for review by NYSDEC. The cost estimate will be revised according to NYSDEC comments on the draft design and submitted with the final design package.

1.3 TASK 3 – ADDITIONAL STUDIES

Additional studies will be conducted install and sample monitoring wells, conduct indoor air monitoring, oversee SSD system installation and provide documentation.

1.3.1 Subtask 03.01 – Well Installation & Development Oversight

As required in the 2008 ROD for OU 2, annual groundwater monitoring will be conducted in the study area to evaluate natural attenuation of the groundwater contamination. Three existing wells have been identified on site. However, during the August 14, 2009 site visit, the Nassau County well could not be located. Three additional nested pairs of groundwater monitoring wells will be installed. The proposed well locations are presented in Figure 2. The monitoring well locations will be adjusted with NYSDEC approval if there are obstructions such as overhead utility lines. Each of these well nests would be screened from 85-95 feet bgs (shallow) and from 115-125 feet (deep). AECOM will provide a scope of work for the NYSDEC's drilling contractor. AECOM will oversee installation of the wells by NYSDEC's remedial contractor and prepare well construction logs.

Prior to installation, AECOM's subcontractor will conduct a utility markout. NYSDEC's remedial contractor will be responsible for contacting DIG SAFE prior to drilling.

Soil cuttings will be collected in a roll-off. It is assumed that the roll-off can be stored on the nearby Bowling Green Water District property (see Figure 1). AECOM will contact the Assistant to Commissioner at the Town of Hempstead (1995 Prospect Avenue, East Meadow, NY 11554) to formally request use of the water district property. According to the Assistant to Commissioner, Joe Vicario, he does not know of any objections to use of the water district property for this purpose. The driller will use a skid steer to transport the soil from the well location to the roll-off daily. The roll-off will be covered. Drums will be provided by NYSDEC's driller to segregate highly contaminated material, if encountered. A waste characterization sample will be collected by AECOM to determine whether the soil can be disposed as non-hazardous material.

The wells will be developed by NYSDEC's remedial contractor with oversight by AECOM. Well development forms will be prepared by AECOM.

1.3.2 Subtask 03.02 – Well Sampling

AECOM will collect one round of samples from the three existing and six planned wells. AECOM will complete well sampling forms showing compliance with EPA guidance. The sampling procedure will follow the EPA low flow sampling procedures (EPA SOP, 1998). A bladder pump will be used. The

pump intake will be set at the midpoint of the screened interval. Dedicated Teflon or Teflon-lined tubing will be used for all groundwater sample collection. Several parameters will be recorded during purging including flow rate, depth to water, temperature, pH, conductivity, DO, ORP and turbidity. The measurements will be recorded on a well sampling form. Measurements will be collected approximately every five minutes. A flow cell will be used to measure most of the parameters. Purge water will be disposed to the sanitary sewer as required by the Nassau County discharge permit to be obtained by AECOM. Purging will be considered complete when the indicator parameters have stabilized over three consecutive readings. Stabilization parameters are:

- depth to water: less than 0.3 ft drawdown during purging;
- pH: ± 0.1
- conductivity: ± 3%
- DO: ± 10 mV
- ORP: ±10% and
- Turbidity: less than 50 NTU.

An attempt will be made to achieve these criteria. However, if stabilization is not achieved after two hours of purging, the groundwater sample will be collected although the parameters have not stabilized.

During sample collection, the flow cell will be disconnected and the sample tubing discharge will be poured directly into the laboratory supplied sample containers and field vials.

In low yield wells, the sample may be collected after the well recharges if purged dry.

Immediately prior to the groundwater sampling, the depth to water will be gauged to provide information on groundwater flow in the vicinity of the site. Water level measurements will be recorded in the field notebook and on the sampling form.

Groundwater samples will be analyzed in the field for dissolved oxygen, sulfates and dissolved iron and shipped for laboratory analysis for VOCs, nitrates, carbon dioxide, and methane by TestAmerica in Amherst, New York. The analytical sample requirements are summarized in Table 1 and Table 2. The groundwater laboratory data will be validated.

1.3.3 Subtask 03.03 – Structure Sampling

AECOM will monitor Structure 1, Structure 7 and Structure 13. The long term monitoring will be conducted during the heating season, which is from November through March. Monitoring, including sub-slab vapor, indoor air, and outdoor air sampling, will be performed concurrently to determine whether concentrations in the indoor air or sub-slab vapor have changed; and to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint.

The NYSDOH indoor air quality questionnaire and building inventory will be completed for each property.

Two indoor air samples are proposed to be collected within the first floors of the structures on each of the two properties. In addition, an outdoor ambient air sample will be collected concurrently with the indoor air samples to determine the extent to which outdoor sources may be influencing indoor air quality in the structures.

Sub-slab vapor samples will be collected from all the locations sampled during the supplemental Remedial Investigation in these structures. A total of five (5) sub-slab soil vapor samples (excluding

the QA/QC samples) will be collected. AECOM will install permanent sub-slab sampling ports that are flush mounted to facilitate future long term air monitoring.

Where possible, sub-slab vapor samples will be located central to the building and away from the foundation walls and apparent penetrations such as water pipes, floor drains, etc. The location of each sampling point will be marked, documented, and photographed. A photoionization detector (PID) will be used to screen indoor air and penetrations such as concrete floor cracks, floor drains, etc., prior to collecting the air samples. Household products containing chlorinated solvents, when found, will be removed from the interior of the building prior to and during the sampling effort. PID readings and other general observations during the sampling events will be recorded.

The air samples will be collected using 6-liter Summa® batch certified canisters equipped with flow controller valves pre-calibrated at the laboratory. Indoor air samples will be collected by placing the Summa® canister in the breathing zone (4-6 ft off ground). A length of new Teflon-lined polyethylene tubing will be cut and clamped to the top of the flow regulator. For the outdoor air sampling, locations will be selected that are removed from outdoor operations that are known to generate VOCs. AECOM personnel will install the permanent probes for sampling sub-slab vapor. An electric drill will be utilized to make a 1-inch diameter borehole through the concrete slab. The drill bit will be advanced approximately six inches into the sub-slab material at each sampling location to create an open cavity. A 6-inch long stainless steel soil gas implant fitted with a Teflon-lined polyethylene tube will then be inserted into the borehole. The annulus around the implant will be backfilled with sand pack to the bottom of the cement slab. The remaining annular space will be sealed using inert material (i.e., bentonite). The integrity of the seal will then be tested using helium tracer gas inserted into an enclosure placed above the seal. After installation of the probe, the tubing will be connected to a vacuum pump and up to one liter of sub-slab vapor will be purged (at a rate less than 200 milliliters per minute [mL/min]). Once purging is completed, the sample tube will be connected to the Summa® canister with a pre-set regulator designed to sample for a 24-hour period. Permanent sub-slab points will be sealed to the floor with hydraulic cement. After sampling, each point will be capped with a stainless steel threaded cap to seal the point and allow future monitoring activities. The permanent sub-slab points will be flush to the floor surface.

The Summa canisters will be sent to TestAmerica in Burlington, Vermont for TO-15 VOC analysis. Table 1 and Table 2 present the analytical requirements.

Unless otherwise noted, it is assumed that all field work will be completed in United States Environmental Protection Agency (USEPA) Level D protection in accordance with the health and safety plan. It is assumed that all field activities will be monitored by one or more AECOM representatives.

1.3.4 Subtask 03.04 – SSD System Installation Oversight

All components of the sub-slab depressurization system will be installed in compliance with the applicable mechanical, electrical, building, plumbing, energy, and fire prevention codes, standards and regulations of the local jurisdiction.

After the systems are installed, post-mitigation testing will be conducted at each of the buildings:

- After installation of the sub-Slab Depressurization System, the integrity of the fan mounting seals and all joints in the interior vent piping will be verified.
- After the installation of suction points, the suction or flow will measured to assure that the system is operating as designed. Upon completion of installation, the system will be operated for an hour. After this period, two pilot holes will be drilled away from the suction point to demonstrate that a minimum of 1 Pascal of vacuum is being created at these pilot holes.
- Immediately after the installation in buildings containing natural draft combustion appliances, the building will be tested for back drafting of those appliances. Any back drafting conditions that results from installation of the sub-slab depressurization unit will be

corrected before the system is placed in operation.

Upon installation of the sub-slab depressurization system, carpet/floor tile will be restored to previous conditions, to the extent practical.

1.3.5 Subtask 03.05 – SSD System Reporting

Earth Tech will prepare a Final Engineering Report that meets all of the requirements of DER-10 (Section 5.8 Remedial Action Report) following installation of the SSD systems. The report shall include an operation, maintenance and monitoring plan consistent with DER-10 Section 6.

1.3.6 Subtask 03.06 – Annual Long Term Monitoring Report

Upon completion of the annual long term monitoring sampling event, AECOM will prepare an annual Long Term Monitoring Report in a letter format. The letter report will contain the following:

- Groundwater and air analytical summary tables;
- Comparison of groundwater samples to NYSDEC Class GA criteria; and,
- Comparison of air samples to the matrices and NYSDOH 75th percentile background estimates in NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New dated October 2006.

2.0 PROJECT SCHEDULE

The project schedule is presented in Figure 3.

3.0 STAFFING PLAN

The functional relationships among the parties involved in this project are illustrated in Figure 4. The roles and responsibilities of the key people shown in the chart are described briefly below.

Program Manager Scott Underhill, P.E., AECOM's Program Manager, will have responsibility for overall program management and coordination of subcontractors to complete the work.

Project Manager Claire Hunt, AECOM's Project Manager, will have responsibility for overall project management and coordination with NYSDEC.

Field Team Leader Celeste Foster will have overall responsibility of oversight of the field activities and construction oversight.

QA Officer Mr. Allen Burton will serve as Quality Assurance Officer, and will be responsible for laboratory and data validation subcontractor procurement and assignment, as well as providing overall direction for the QC/AC program.

H & S Officer Peter Sullivan, AECOM Northeast Safety Manger, will oversee the health and safety aspects of this assignment. He, or his designee, will have the responsibility for approval of the project health and safety plan, and tracking of its implementation.

Resumes for AECOM personnel have previously been submitted to the NYSDEC Contract Development Section.

4.0 SUBCONTRACTING AND M/WBE PLAN

Several areas of unit price service under Task 3 are amenable to existing AECOM standby subcontracting:

- Field Support (YEC, Inc. – **MBE**) – Assist with indoor air sampling and groundwater sampling.
- Land Surveying (YEC, Inc. – **MBE**) – Survey six well locations.
- Utility Markout (Advanced Geological Services, Inc.) – Survey six monitoring well installation areas.
- Laboratory Analysis (Test America - NYSDOH Wadsworth ELAP certified) – Conduct air and groundwater analyses for one round of long term monitoring.
- Data Validation (EDS – **WBE**) – Validate air and groundwater analyses for one round of long-term monitoring.

AECOM solicited quotes for pre-design survey activities and soil cuttings disposal. Quotes a. The low bidders were selected: Enviro Testing for pre-design survey activities and Pure Earth for soil cuttings disposal. Neither Enviro Testing nor Pure Earth is an M/WBE.

4.1 ASSUMPTIONS

The cost present in Schedule 2.11 forms is based on the assumption stated below.

- *Task 1 - Scoping*: A site visit was conducted on August 14, 2009. Two AECOM employees attended.
- *Subtask 02.01 – Conceptual Design*: AECOM has assumed that the pre-design investigation will last for five 10-hour days. In addition, one day will be required to locate the potential soil gas entry points. AECOM will work with Enviro Testing to collect the field measurements. It is assumed that all field work will be conducted in Level D.
- *Subtask 02.02 – Draft Design*: The submittal will consist of draft design calculations, drawings, specifications, bid quantity estimates, cost estimates, a description of access and permit issues and draft measurements for payment. Three copies of the preliminary design will be provided to NYSDEC for review. The submittal will be a complete draft design which will be finalized based on DEC comments.
- *Subtask 02.03 – Final Design*: The submittal will consist of final contract documents, engineer's cost and quantity estimates and a list of required permits/access agreements.
- *Subtask 02.04 – Project Cost Estimate*: This task consists of preparing a project cost estimate for review by NYSDEC.
- *Subtask 03.01 – Well Installation & Development Oversight*: This task consists of coordination and oversight of monitoring wells installation at six locations. It is assumed that the wells will be installed in three pairs along the south side of Old Country Road. The cost for a geophysical survey by AGS for utility mark out is included in the budget. The cost for drilling is not included as stated in NYSDEC's work plan template. The wells will be developed by the driller with oversight by AECOM. It is assumed that the wells will be installed in 8 days and development will require an additional 2 days. Soil cuttings will be collected in a roll off for off-site disposal by the subcontractor Pure Earth Disposal Group. The soil will be sampled for waste characterization prior to disposal. It is assumed that the soil will be disposed as hazardous waste. The budget includes the cost of 5 drums, to allow segregation of more heavily contaminated soil, if encountered. It is assumed that the water will not have a sheen and can be disposed to a storm or sanitary sewer in accordance with Nassau County requirements. AECOM will contact Nassau County to obtain a permit for

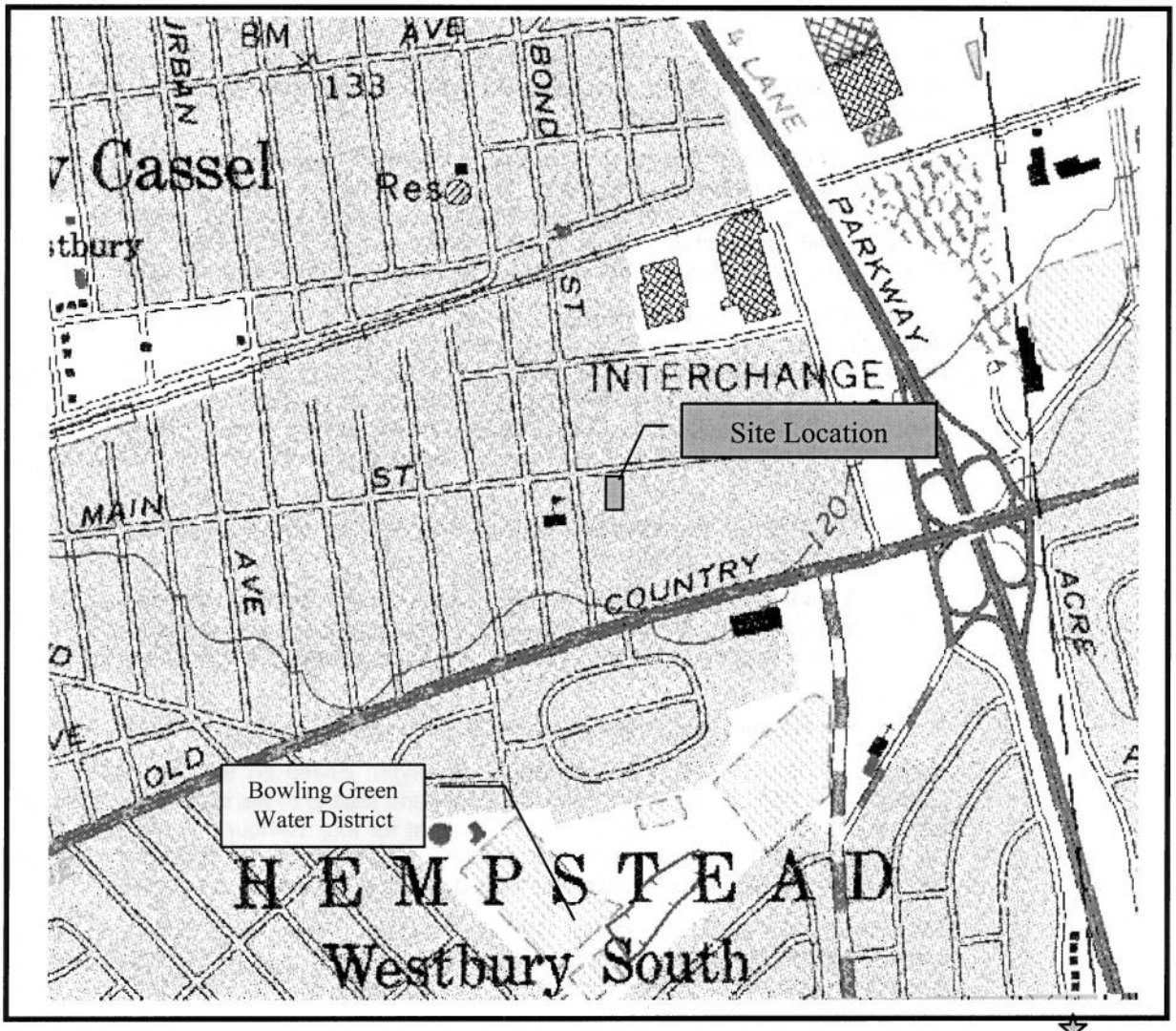
disposal of the purged groundwater. The permit fee will be waived because this is a NYSDEC project. A team subcontractor, YEC, will conduct a land survey of the six monitoring wells following installation.

- *Subtask 03.02 –Well Sampling*: This task consists of groundwater sampling at the three existing and six newly installed wells. The groundwater will be collected by the low flow method. The samples will be analyzed for dissolved oxygen, sulfates, and dissolved iron, in the field; and for nitrates, carbon dioxide, methane and VOCs by the standby contractor TestAmerica. Laboratory results will be validated by standby contractor EDS.
- *Subtask 03.03 –Structure Sampling*: This task consists of air sampling at three properties. Indoor air, outdoor air and sub-slab samples will be collected from each property. Permanent sub-slab points will be installed at each location for long-term monitoring. YEC will assist with air sampling. The NYSDOH indoor air quality questionnaire and building inventory will be completed for each property. The samples will be analyzed for VOCs (TO-15) by the standby contractor TestAmerica. Laboratory results will be validated by standby contractor EDS.
    - AECOM has assumed that the field work will be performed during normal working hours on weekdays;
    - A total of 3 sub-slab soil vapor, 6 indoor air, 2 outdoor air samples, and 2 field duplicate samples will be collected and analyzed using EPA Method TO-15 during each sampling event. The samples will be analyzed on a standard turn around time; and,
    - Permanent sub-slab soil gas sampling implants will be installed at the properties.
- *Subtask 03.04 –SSD System Installation Oversight*: Based on the experience on similar projects, AECOM has assumed that installation and testing of the system for Structure 2 will last for four 10-hour days, for Structure 6 will last for four 10-hour days and for Structure 9 will last for eight 10-hour days. AECOM's specifications for NYSDEC's contractor will require use of a certified electrician meeting all state and local requirements.
- *Subtask 03.05 –SSD System Information Package Preparation*: This task consists of preparing a SSDS information package for each facility. The document will identify as-built deviations from the design documents, final pressure readings and operation and maintenance requirements.
- *Subtask 03.06 –Annual Long Term Monitoring Report*: This task consists of preparing a sampling summary report for the groundwater and air samples in the form of a letter report.

If you have any questions or require additional information, feel free to contact our office.

Yours sincerely,

Claire Hunt
Project Manager



USGS Hicksville (NY) Quadrangle

U.S.G.S. 1:24 000 SCALE TOPOGRAPHIC MAP

1 1/2 0 1 MILE

1000 0 1000 2000 3000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

MN GN

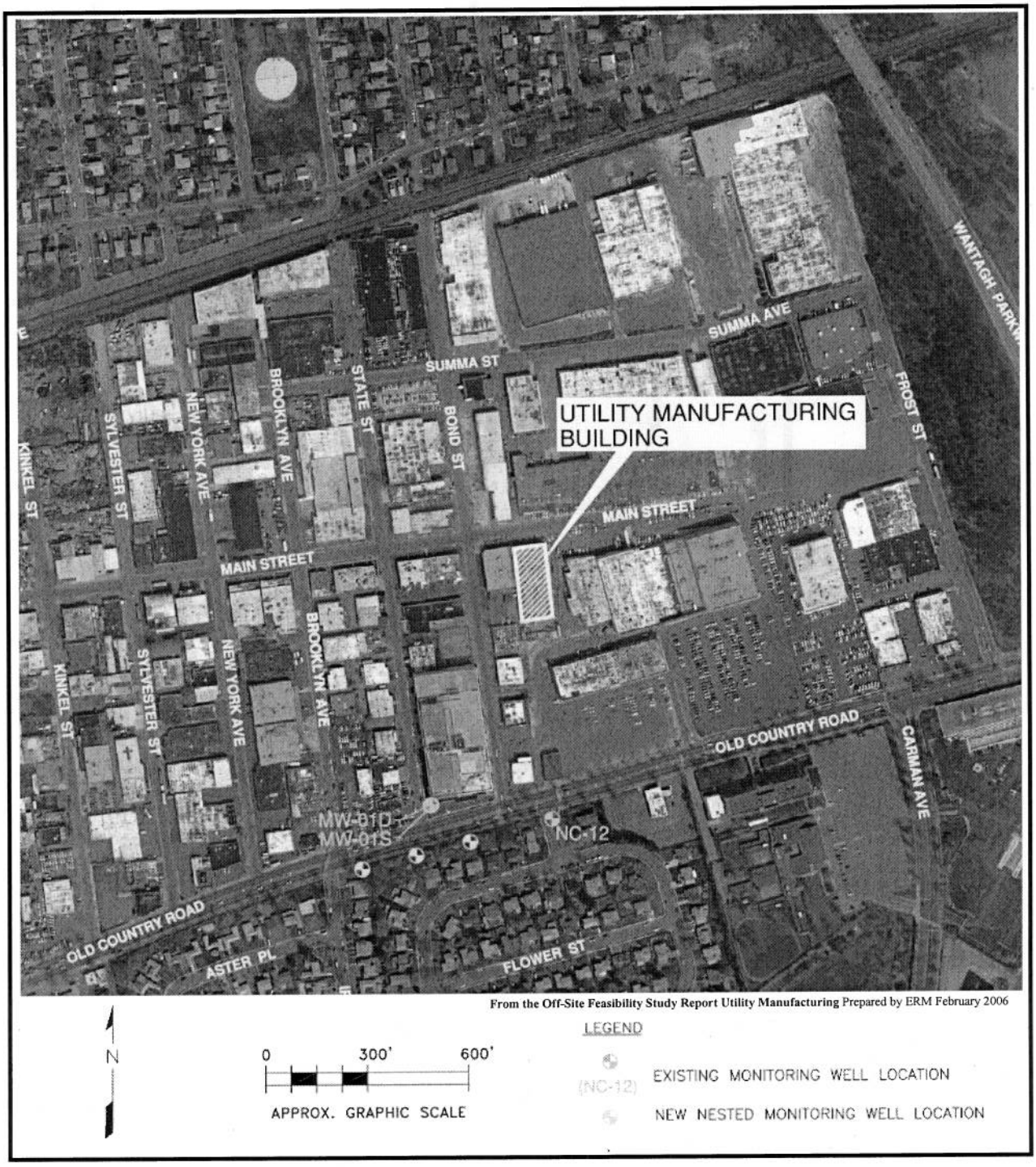
12° 213 MILS | 0° 42' 12 MILS

UTM GRID & 1979
MAGNETIC NORTH
DECLINATION AT
CENTER OF SHEET

300 Broadacres Drive,
Bloomfield, New Jersey 07003

ENVIRONMENTAL/CONSULTING ENGINEERS

AECOM	PROJECT: **REMEDIAL DESIGN/ CONSTRUCTION OVERSIGHT** **Utility Manufacturing/Wonder King, OU2** 700 – 712 Main Street, Westbury, New York	SITE LOCATION MAP Project No: 95633 Figure No: 1



From the Off-Site Feasibility Study Report Utility Manufacturing Prepared by ERM February 2006

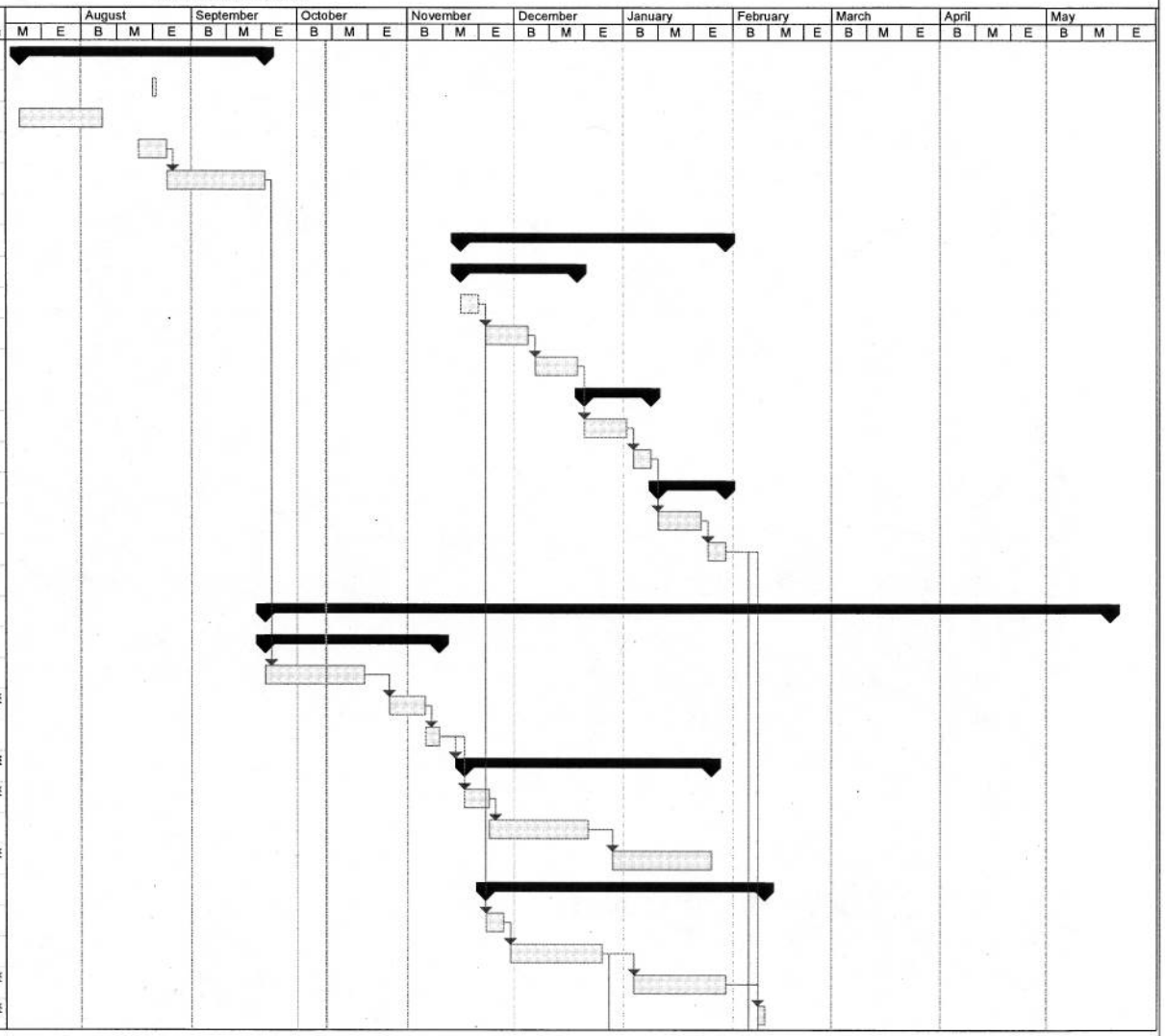
300 Broadacres Drive,
Bloomfield, New Jersey 07003

ENVIRONMENTAL/CONSULTING ENGINEERS

AECOM	PROJECT: **REMEDIAL DESIGN/ CONSTRUCION OVERSIGHT** **Utility Manufacturing/Wonder King, OU2** 700 – 712 Main Street, Westbury, New York	Proposed Monitoring Well Locations Project No: 95633 Figure No: 2

Figure 3 Project Schedule

ID	Task Name	Duration	Start	Finish	Pre
1	**Task 1 - Scoping**	**49 days**	**Wed 7/15/09**	**Mon 9/21/09**	
2	Site Visit	1 day	Fri 8/21/09	Fri 8/21/09	
3	Prepared Draft SOW & 211s	17 days	Wed 7/15/09	Thu 8/6/09	
4	Prepared Draft PMP & Revised 211s	6 days	Mon 8/17/09	Mon 8/24/09	
5	NYSDEC Review	20 days	Tue 8/25/09	Mon 9/21/09	4
6					
7	**Task 2 - Plans and Specifications**	**55 days**	**Mon 11/16/09**	**Fri 1/29/10**	
8	**02.01 - Component 1 Conceptual Design**	**25 days**	**Mon 11/16/09**	**Fri 12/18/09**	
9	Pre-Design Field Effort	5 days	Mon 11/16/09	Fri 11/20/09	
10	Submittal Preparation	10 days	Mon 11/23/09	Fri 12/4/09	9
11	NYSDEC Review	10 days	Mon 12/7/09	Fri 12/18/09	10
12	**02.02 - Component 2 Draft Design\Cost Estimate**	**15 days**	**Mon 12/21/09**	**Fri 1/8/10**	
13	Submittal Preparation	10 days	Mon 12/21/09	Fri 1/1/10	11
14	NYSDEC Review	5 days	Mon 1/4/10	Fri 1/8/10	13
15	**02.03 - Component 3 Final Design\Cost Estimate**	**15 days**	**Mon 1/11/10**	**Fri 1/29/10**	
16	Submittal Preparation	10 days	Mon 1/11/10	Fri 1/22/10	14
17	NYSDEC Review	5 days	Mon 1/25/10	Fri 1/29/10	16
18					
19	**Task 3 - Additional Studies**	**171 days**	**Tue 9/22/09**	**Tue 5/18/10**	
20	**03.01 - Well Installation & Development Oversight (6)**	**35 days**	**Tue 9/22/09**	**Mon 11/9/09**	
21	NYSDEC Driller Procurement	20 days	Tue 9/22/09	Mon 10/19/09	5
22	Well Installation	8 days	Tue 10/27/09	Thu 11/5/09	21FS
23	Well Development	2 days	Fri 11/6/09	Mon 11/9/09	22
24	**03.02 - Well Sampling (9)**	**50 days**	**Tue 11/17/09**	**Mon 1/25/10**	**23FS**
25	Sampling Event	5 days	Tue 11/17/09	Mon 11/23/09	23FS
26	Laboratory Analysis	20 days	Tue 11/24/09	Mon 12/21/09	25
27	Validation	20 days	Tue 12/29/09	Mon 1/25/10	26FS
28	**03.03 - Structure Sampling**	**57 days**	**Mon 11/23/09**	**Tue 2/9/10**	
29	Sampling Event	5 days	Mon 11/23/09	Fri 11/27/09	9
30	Laboratory Analysis	20 days	Mon 11/30/09	Fri 12/25/09	29
31	Validation	20 days	Mon 1/4/10	Fri 1/29/10	30FS
32	Submit Laboratory and Validation To NYSDEC	2 days	Mon 2/8/10	Tue 2/9/10	31FS

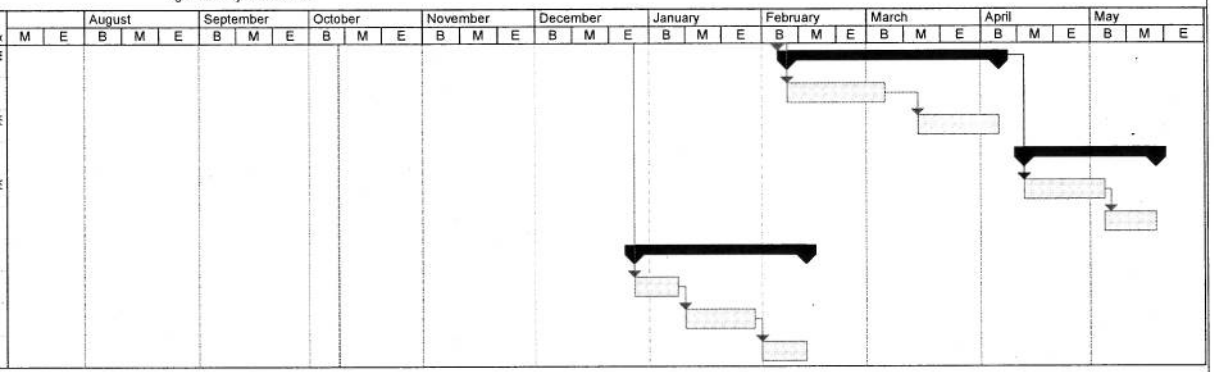


Project: Fig 3 Schedule
Date: Fri 10/9/09

Task
Split
Progress
Milestone
Summary
Rolled Up Task
Rolled Up Split
Rolled Up Milestone
Rolled Up Progress
External Tasks
Project Summary

Figure 3 Project Schedule

ID	Task Name	Duration	Start	Finish	Pred
33	**03.04 - SSDS Installation Oversight**	**41 days**	**Mon 2/8/10**	**Mon 4/5/10**	17FS
34	NYSDEC Remedial Contractor Procurement	20 days	Mon 2/8/10	Fri 3/5/10	17
35	Installation	16 days	Mon 3/15/10	Mon 4/5/10	34FS
36	**03.05 - SSDS Information Package Preparation**	**26 days**	**Tue 4/13/10**	**Tue 5/18/10**	
37	Submittal Preparation	16 days	Tue 4/13/10	Tue 5/4/10	33FS
38	NYSDEC Review	10 days	Wed 5/5/10	Tue 5/18/10	37
39	**03.06 - Annual Long term Monitoring Report**	**35 days**	**Mon 12/28/09**	**Fri 2/12/10**	
40	Draft Submittal Preparation	10 days	Mon 12/28/09	Fri 1/8/10	30
41	NYSDEC Review	15 days	Mon 1/11/10	Fri 1/29/10	40
42	Final Submittal Preparation	10 days	Mon 2/1/10	Fri 2/12/10	41



Project: Fig 3 Schedule
Date: Fri 10/9/09

Task | Progress | Summary | Rolled Up Split | Rolled Up Progress | Project Summary
Split | Milestone | Rolled Up Task | Rolled Up Milestone | External Tasks

Figure 4
Organization Chart

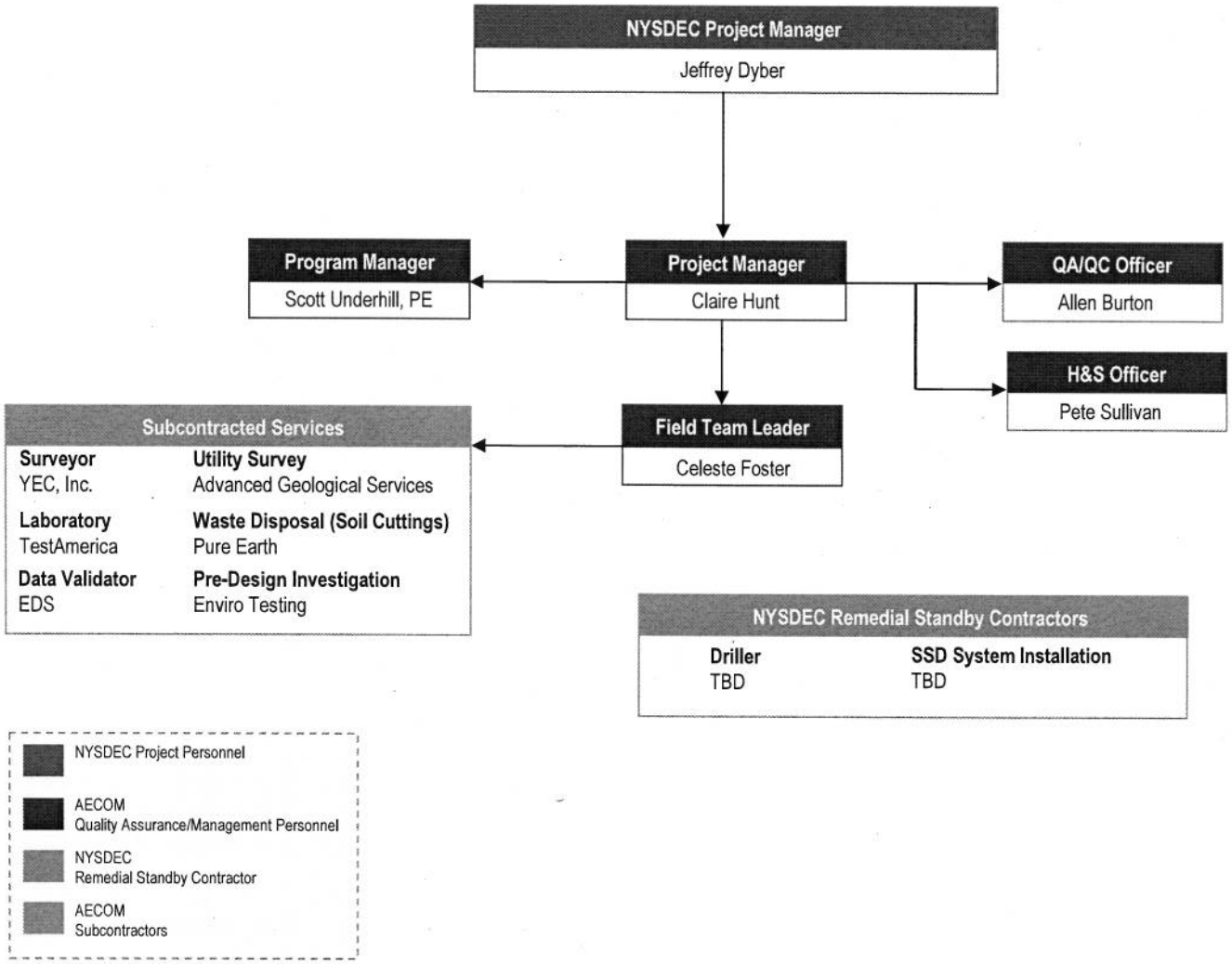


Table 1

Sample Bottle, Volume, Preservation, and Holding Time Summary

MATRIX/ANALYSIS	Sample Prep Method [1]	Analytical Method	Sample Bottles (2)				Minimum	Preservation	Holding Time (3, 4)		Comment
			Mat'l	Size	Qty	Source	Vol Rqd	(3)	Extraction	Analysis	
Aqueous Samples											
Volatile Organics	SW 846 5030B	SW 846 8260B	G	40 mL	2 or 3	Lab	40 mL	HCl to pH ≤ 2	NA	14 days	
Methane	RSK-175	RSK-175	G	VOA Vial	1	Lab	VOA Vial	HCl to pH ≤ 2	NA	14 days	
Nitrate/Nitrite	353.2	353.2	P	250 mL	10	Lab	250 mL	H2S04 to pH ≤ 2	NA	28 days	
Carbon Dioxide	RSK-175	RSK-175	G	VOA Vial	1	Lab	VOA Vial	HCl to pH ≤ 2	NA	14 days	
Air Samples											
Volatile Organics	NA	EPA TO-15	SS	6 L	1	Lab	400 mL	None	NA	14 days	Summa canister; batch certified.

(1) Laboratory may propose alternate extraction/preparation methods, subject to AECOM approval.

(2) Bottles as planned by the laboratory.

(3) All samples for chemical analysis should be held at 4 degrees C in addition to any chemical preservation required.

(4) Holding time calculated from day of collection, unless noted as being from time of extraction. Laboratory holding times (ASP 2005, Exhibit I) are two days shorter to allow for field handling and shipping.

(5) Preliminary data to be reported within 14 days of sample receipt.

G = Glass

P = Plastic

SS = Stainless Steel

SW-846: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. USEPA SW-846. Complete through Update IIIB, November 2004.

EPA = Compendium of Methods for the Determination of Toxic Organics in Air, Second Edition (EPA/625/R-96/010b; 1999)

Table 2
Quality Assurance Project Plan

Field Sample and QA/QC Sample Off-Site Laboratory Quantity Summary

MATRIX/ANALYSIS	Analytical Method	Laboratory	Reporting Limit -Typical (units as specified)	Field Sample Quantity [1]	Matrix Spike (MS) or LCS	MS Duplicate or Matrix Duplicate	Field Duplicate	Equipment Blank [3]	Trip Blank	Total Billable Analyses
Aqueous Samples										
Volatile organics	SW 846 8260B	TestAmerica	1.0 - 5 µg/L (typical)	9	1	1	1	1	2	15
Methane	RSK-175	TestAmerica	1.0 µg/L	9	1	1	1	1	0	13
Nitrate/Nitrite	353.2	TestAmerica	0.0500 mg/L-N	9	1	1	1	1	0	13
Carbon Dioxide	RSK-175	TestAmerica	1000 µg/L	9	1	1	1	1	0	13
Air Samples										
Volatile organics	TO-15	TestAmerica	5 µg/m3 all parameters except 0.25 µg/m^3 for TCE	12	NA [4]	NA [4]	2	NA	NA	14

Notes
1 QC quantities shown are typical requirements for each group of 20 or fewer field samples.
2 Reporting limits for soils, when adjusted for dry weight, will be higher. Detections above the MDL but less than reporting limits will be reported and flagged estimated (J).
3 Field equipment rinsate blank will be collected for soil and groundwater.
4 Spikes, LCS, and duplicates are not explicitly required by method TO-15 but are usually included as part the laboratory's analytical QA program.
5 Wet chemistry parameters include dissolved oxygen, nitrates, sulfates, dissolved iron, carbon dioxide, and methane.

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(a)
SUMMARY OF WORK ASSIGNMENT PRICE

1.	DIRECT SALARY COSTS (Schedules 2.10(a) and 2.11(b)	30,327
2.	INDIRECT COSTS (Schedule 2.10(g))	44,521
3.	DIRECT NON-SALARY COSTS (Schedules 2.10(d)(e)(f) and 2.11(c)(d)	10,957

SUBCONTRACT COSTS
COST-PLUS-FIXED-FEE SUBCONTRACTS
(Schedule 2.10(e) and 2.11(e))

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
YEC, Inc	**Engineering Support Services**	9,564
4. TOTAL COST-PLUS-FIXED-FEE SUBCONTRACTS		9,564

UNIT PRICE SUBCONTRACTS
(Schedule 2.10(f) and 2.11(f))

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
Test America	Lab/Sampling	10,173
EDS (WBE)	Data Validation	576
Advanced Geological Services	Survey	1,200
Enviro Testing	Pre-Design Survey Services	7,296
Pure Earth	Disposal	9,641
Subcontract mgmt fee		537
5. TOTAL UNIT PRICE SUBCONTRACTS		29,423

6.	TOTAL SUBCONTRACT COSTS (Lines 4 + 5)	38,987
7.	FIXED FEE (Schedule 2.10(h))	7,859
8.	TOTAL WORK ASSIGNMENT PRICE (Lines 1 + 2+ 3+ 6 + 7)	**132,651**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

EARTH TECH NORTHEAST, INC.
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
TOTAL

LABOR CLASSIFICATION	IX	VIII	VII	VI	V	IV	III	II	I	LABOR HOURS	DIRECT LABOR
Task 1 - Scoping	**2.00**	**0.00**	**0.00**	**40.00**	**60.00**	**20.00**	**8.00**	**0.00**	**0.00**	**130.00**	**$5,124.80**
	2.00	0.00	0.00	40.00	60.00	20.00	8.00	0.00	0.00	130.00	$5,124.80
Task 2 - Plans and Specifications	**3.00**	**0.00**	**3.00**	**18.00**	**0.00**	**160.00**	**4.00**	**30.00**	**0.00**	**218.00**	**$7,136.61**
02.01 - Component 1 Conceptual Design	1.00	0.00	1.00	10.00	0.00	80.00	1.00	10.00	0.00	103.00	$3,397.79
02.02 - Component 2 Draft Design	1.00	0.00	1.00	4.00	0.00	40.00	1.00	10.00	0.00	57.00	$1,855.09
02.03 - Component 3 Final Design	1.00	0.00	1.00	2.00	0.00	20.00	1.00	10.00	0.00	35.00	$1,127.79
02.04 - Component 4 Project Cost Estimate	0.00	0.00	0.00	2.00	0.00	20.00	1.00	0.00	0.00	23.00	$755.94
Task 3 - Additional Studies	**5.00**	**0.00**	**4.00**	**57.00**	**0.00**	**406.00**	**4.00**	**76.00**	**0.00**	**552.00**	**$18,066.05**
03.01 - Well Installation & Development Oversigh	1.00	0.00	0.00	10.00	0.00	88.00	1.00	36.00	0.00	136.00	$4,259.10
03.02 - Well Sampling (9)	1.00	0.00	0.00	0.00	0.00	40.00	1.00	0.00	0.00	42.00	$1,374.08
03.03 - Structure Sampling	1.00	0.00	0.00	5.00	0.00	40.00	1.00	0.00	0.00	47.00	$1,594.33
03.04 - SSDS Installation Oversight	1.00	0.00	0.00	24.00	0.00	160.00	1.00	0.00	0.00	186.00	$6,266.48
03.05 - SSDS Information Package Preparation	0.00	0.00	2.00	8.00	0.00	68.00	0.00	0.00	0.00	78.00	$2,629.50
03.06 - Annual Long term Monitoring Report	1.00	0.00	2.00	10.00	0.00	10.00	0.00	40.00	0.00	63.00	$1,942.56
TOTAL LABOR HOURS	10.00	0.00	7.00	115.00	60.00	586.00	16.00	106.00	0.00	900.00	
TOTAL LABOR DOLLARS	$670.40	$0.00	$363.37	$5,065.75	$2,360.40	$18,728.56	$458.24	$2,680.74	$0.00		**$30,327.46**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
2009

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX $67.04	VIII $65.55	VII $51.91	VI $44.05	V $39.34	IV $31.96	III $28.64	II $25.29	I $17.42	LABOR HOURS	DIRECT LABOR
Task 1 - Scoping	**2.00**	**0.00**	**0.00**	**40.00**	**60.00**	**20.00**	**8.00**	**0.00**	**0.00**	**130.00**	**$5,124.80**
	2.00	0.00	0.00	40.00	60.00	20.00	8.00	0.00	0.00	130.00	$5,124.80
Task 2 - Plans and Specifications	**3.00**	**0.00**	**3.00**	**18.00**	**0.00**	**160.00**	**4.00**	**30.00**	**0.00**	**218.00**	**$7,136.61**
02.01 - Component 1 Conceptual Design	1.00	0.00	1.00	10.00	0.00	80.00	1.00	10.00	0.00	103.00	$3,397.79
02.02 - Component 2 Draft Design	1.00	0.00	1.00	4.00	0.00	40.00	1.00	10.00	0.00	57.00	$1,855.09
02.03 - Component 3 Final Design	1.00	0.00	1.00	2.00	0.00	20.00	1.00	10.00	0.00	35.00	$1,127.79
02.04 - Component 4 Project Cost Estimate	0.00	0.00	0.00	2.00	0.00	20.00	1.00	0.00	0.00	23.00	$755.94
Task 3 - Additional Studies	**5.00**	**0.00**	**4.00**	**57.00**	**0.00**	**406.00**	**4.00**	**76.00**	**0.00**	**552.00**	**$18,066.05**
03.01 - Well Installation & Development Oversigh	1.00	0.00	0.00	10.00	0.00	88.00	1.00	36.00	0.00	136.00	$4,259.10
03.02 - Well Sampling (9)	1.00	0.00	0.00	0.00	0.00	40.00	1.00	0.00	0.00	42.00	$1,374.08
03.03 - Structure Sampling	1.00	0.00	0.00	5.00	0.00	40.00	1.00	0.00	0.00	47.00	$1,594.33
03.04 - SSDS Installation Oversight	1.00	0.00	0.00	24.00	0.00	160.00	1.00	0.00	0.00	186.00	$6,266.48
03.05 - SSDS Information Package Preparation	0.00	0.00	2.00	8.00	0.00	68.00	0.00	0.00	0.00	78.00	$2,629.50
03.06 - Annual Long term Monitoring Report	1.00	0.00	2.00	10.00	0.00	10.00	0.00	40.00	0.00	63.00	$1,942.56
TOTAL LABOR HOURS	10.00	0.00	7.00	115.00	60.00	586.00	16.00	106.00	0.00	900.00	
TOTAL LABOR DOLLARS	$670.40	$0.00	$363.37	$5,065.75	$2,360.40	$18,728.56	$458.24	$2,680.74	$0.00		$30,327.46

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(b-1)
DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED

LABOR CLASSIFICATION Avg Labor rate 200 - 2011	IX $69.08	VIII $67.55	VII $53.49	VI $45.39	V $40.54	IV $32.94	III $29.52	II $26.06	I $17.95	LABOR HOURS	DIRECT LABOR
Task 1 - Scoping	**1.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.00**	**1.00**	**0.00**	**0.00**	**4.00**	**$164.47**
	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00	4.00	$164.47
Task 2 - Plans and Specifications	**4.00**	**0.00**	**0.00**	**0.00**	**0.00**	**8.00**	**8.00**	**0.00**	**0.00**	**20.00**	**$775.92**
02.01 - Component 1 Conceptual Design	1.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	5.00	$193.98
02.02 - Component 2 Draft Design	1.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	5.00	$0.00
02.03 - Component 3 Final Design	1.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	5.00	$0.00
02.04 - Component 4 Project Cost Estimate	1.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	5.00	$7.00
Task 3 - Additional Studies	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.00**	**3.00**	**0.00**	**0.00**	**9.00**	**$358.45**
03.01 - Well Installation & Development Oversig	1.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	5.00	$193.98
03.02 - Well Sampling (9)	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00	4.00	$0.00
03.03 - Structure Sampling	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00	4.00	$0.00
03.04 - SSDS Installation Oversight	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00	4.00	$6.00
03.05 - SSDS Information Package Preparation	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00	4.00	$6.00
03.06 - Annual Long term Monitoring Report	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00	4.00	$164.47
TOTAL LABOR HOURS		**0.00**	**0.00**	**0.00**	**0.00**	**14.00**	**12.00**	**0.00**	**0.00**	**33.00**	**$1,298.83**

Subject to contract allowability, project adminsitrative hours would include but not necessarily be limited to the following activites:

1. Work Plan Development
 - Conflict of Interest Check
 - Develop budget schedules and supporting documentation
2. Review work assignment (WA) progress
 - Conduct progress reviews
 - Prepare monthly project report and update WA progess schedule
 - M/WBE Activities
 - Program Management
 - Manage Subcontracts
3. CAP Preparation
 - Prepare monthly cost control report and CAP
 - Oversee CAP preparation
4. Miscellaneous
 - NSPE List Updates
 - Equipment use and inventory
 - Word Processing and Report Preparation

Contract/Project administration hours would not include activities such as:

1. QA/QC reviews
2. Technical oversight by management
3. Develop subcontracts
4. Work plan development (other than COI and budget preparation)
5. Review of deliverables

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

MONTHLY COST CONTROL REPORT
SCHEDULE 2.11(h)
SUMMARY OF LABOR HOURS
NUMBER OF DIRECT LABOR HOURS EXPENDED TO DATE/
ESTIMATED NUMBER OF DIRECT LABOR HOURS TO COMPLETION

LABOR CLASS	IX		VIII		VII		VI		V		IV		III		II		I		TOTAL NO. OF DIRECT LABOR HOUR	
TASK NO.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.
Task 1 - Scoping		**2.0**		**0.0**		**0.0**		**40.0**		**60.0**		**20.0**		**8.0**		**0.0**		**0.0**		**130.0**
		2.0		0.0		0.0		40.0		60.0		20.0		8.0		0.0		0.0		130.0
Task 2 - Plans and Specifications		**3.0**		**0.0**		**3.0**		**18.0**		**0.0**		**160.0**		**4.0**		**30.0**		**0.0**		**218.0**
02.01 - Component 1 Conceptual Design		1.0		0.0		1.0		10.0		0.0		80.0		1.0		10.0		0.0		103.0
02.02 - Component 2 Draft Design		1.0		0.0		1.0		4.0		0.0		40.0		1.0		10.0		0.0		57.0
02.03 - Component 3 Final Design		1.0		0.0		1.0		2.0		0.0		20.0		1.0		10.0		0.0		35.0
02.04 - Component 4 Project Cost Estimate		0.0		0.0		0.0		2.0		0.0		20.0		1.0		0.0		0.0		23.0
Task 3 - Additional Studies		**5.0**		**0.0**		**4.0**		**57.0**		**0.0**		**406.0**		**4.0**		**76.0**		**0.0**		**552.0**
03.01 - Well Installation & Development Oversight (6)		1.0		0.0		0.0		10.0		0.0		88.0		1.0		36.0		0.0		136.0
03.02 - Well Sampling (9)		1.0		0.0		0.0		0.0		0.0		40.0		1.0		0.0		0.0		42.0
03.03 - Structure Sampling		1.0		0.0		0.0		5.0		0.0		40.0		1.0		0.0		0.0		47.0
03.04 - SSDS Installation Oversight		1.0		0.0		0.0		24.0		0.0		160.0		1.0		0.0		0.0		186.0
03.05 - SSDS Information Package Preparation		0.0		0.0		2.0		8.0		0.0		68.0		0.0		0.0		0.0		78.0
03.06 - Annual Long term Monitoring Report		1.0		0.0		2.0		10.0		0.0		10.0		0.0		40.0		0.0		63.0
TOTAL		10.0		0.0		7.0		115.0		60.0		586.0		16.0		106.0		0.0		900.0

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(c1)
DIRECT NON-SALARY COSTS

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS		TOTAL ESTIMATED COST	
ODC						
Truck Mileage/Tolls						
Task 1 - Scoping						
Mileage	$0.550	per mile	200		$110.00	
Toll	$14.000	trip	2		$28.00	
Mileage	$0.550	per mile	0		$0.00	
				Task 1 TTL		**$138.00**
Task 2 - Plans and Specifications						
02.01 - Component 1 Conceptual Design						
Mileage	$0.550	per mile	500		$275.00	
Toll	$14.000	trip	5		$70.00	
				Task 02.01 TTL		**$345.00**
Task 3 - Additional Studies						
03.01 - Well Installation & Development Oversight (6)						
Mileage	$0.550	per mile	1,200		$660.00	
Toll	$14.000	trip	12		$168.00	
				Task 03.01 TTL		**$828.00**
03.02 - Well Sampling (9)						
Van Rental	$110.000	day	3		$330.00	
Gas for Van	$0.30	miles	300		$90.00	
Toll	$14.000	trip	3		$42.00	
				Task 03.02 TTL		**$462.00**
03.03 - Structure Sampling						
Van Rental	$110.000	day	4		$440.00	
Gas for Van	$0.30	miles	400		$120.00	
Toll	$14.000	trip	4		$56.00	
				Task 03.03 TTL		**$616.00**
03.04 - SSDS Installation Oversight						
Mileage	$0.550	per mile	1,600		$880.00	
Toll	$14.000	trip	16		$224.00	
				Task 03.04 TTL		**$1,104.00**
				Direct Non-Salary Total		**$3,493.00**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(c2)
DIRECT NON-SALARY COSTS

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS		TOTAL ESTIMATED COST	
ODC						
In House Costs						
Task 1 - Scoping						
Level D Equipment	$15.00	day	2		$30.00	
Low Value Equipment	$0.80	hr	2		$1.60	
				Task 1 TTL		**$31.60**
Task 2 - Plans and Specifications						
02.01 - Component 1 Conceptual Design						
Level D Equipment	$15.00	day	5		$75.00	
Printing B&W cost (8.5X11)	$0.03	page	6,000		$180.00	
Printing Color cost (8.5X11)	$1.00	page	200		$200.00	
Low Value Equipment	$0.80	hr	40		$32.00	
				Task 02.01 TTL		**$487.00**
02.02 - Component 2 Draft Design						
Printing B&W cost (8.5X11)	$0.03	page	1,000		$30.00	
Printing Color cost (8.5X11)	$1.00	page	20		$20.00	
				Task 02.02 TTL		**$50.00**
02.03 - Component 3 Final Design						
Printing B&W cost (8.5X11)	$0.03	page	1,000		$30.00	
Printing Color cost (8.5X11)	$1.00	page	20		$20.00	
				Task 02.03 TTL		**$50.00**
02.04 - Component 4 Project Cost Estimate						
Printing B&W cost (8.5X11)	$0.03	page	100		$3.00	
				Task 02.04 TTL		**$3.00**
Task 3 - Additional Studies						
03.01 - Well Installation & Development Oversight (6)						
Level D Equipment	$15.00	day	12		$180.00	
Low Value Equipment	$0.80	hr	120		$96.00	
				Task 03.01 TTL		**$276.00**
03.02 - Well Sampling (9)						
Level D Equipment	$15.00	day	3		$45.00	
Low Value Equipment	$0.80	hr	24		$19.20	
				Task 03.02 TTL		**$64.20**
03.03 - Structure Sampling						
Level D Equipment	$15.00	day	4		$60.00	
Low Value Equipment	$0.80	hr	32		$25.60	
				Task 03.03 TTL		**$85.60**
03.04 - SSDS Installation Oversight						
Level D Equipment	$15.00	day	16		$240.00	
Low Value Equipment	$0.80	hr	128		$102.40	
				Task 03.04 TTL		**$342.40**
03.05 - SSDS Information Package Preparation						
Printing B&W cost (8.5X11)	$0.03	page	150		$4.50	
Printing Color cost (8.5X11)	$1.00	page	15		$15.00	
				Task 03.05 TTL		**$19.50**
03.06 - Annual Long term Monitoring Report						
Printing B&W cost (8.5X11)	$0.03	page	1,000		$30.00	
Printing Color cost (8.5X11)	$1.00	page	50		$50.00	
				Task 03.06 TTL		**$80.00**
				Direct Non-Salary Total		**$1,489.30**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(d)3
Vendor Rented Equipment

ITEM	ESTIMATED QUANTITY	UNIT	COST	TOTAL BUDGET COST	
ODC					
Vendor Rented Equipment					
Task 3 - Additional Studies					
03.01 - Well Installation & Development Oversight (6)					
a Water Level Indicator/Interface Probe	3	week	$150.00	$450.00	
b PID	3	week	$175.00	$525.00	
c YSI for Water Development	1	week	$500.00	$500.00	
			Task 03.01 TTL		**$1,475.00**
03.02 - Well Sampling (9)					
a Water Quality Meter (DO)	1.00	week	$400.00	$400.00	
b Water Quality Meter (Sulfate/Iron)	1.00	week	$75.00	$75.00	
c Water Quality Reagents	1.00	ea	$940.00	$940.00	
d Water Level Indicator/Interface Probe	1.00	week	$150.00	$150.00	
e QED Bladder Pump	1.00	week	$150.00	$150.00	
f QED MP10 control unit	1.00	week	$60.00	$60.00	
g QED 3020 Compressor	1.00	week	$75.00	$75.00	
h PID	1.00	week	$175.00	$175.00	
i Booster Pack Battery	1.00	week	$30.00	$30.00	
			Task 03.02 TTL		**$2,055.00**
03.03 - Structure Sampling					
a PID	1.00	week	$175.00	$175.00	
b Equipment for Perminent SubSlab Points	50.00	ea	$3.00	$150.00	
					$325.00
			Vendor Rented Equipment Total		**$3,855.00**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(d)4
SITE-DEDICATED EQUIPMENT

ITEM	ESTIMATED QUANTITY	UNIT	COST	TOTAL BUDGET COST
ODC				
Dedicated Equipment				
Task 2 - Plans and Specifications				
02.01 - Component 1 Conceptual Design				
Field Note book	1.00	unit	11.00	$11.00
				$11.00
			Site Dedicated Equpmnt Total	**$11.00**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(d)5
CONSUMABLE SUPPLIES

ITEM	ESTIMATED QUANTITY		UNIT COST	TOTAL BUDGET COST
ODCs Ice/Misc Field Supplies/Shipping				
Task 3 - Additional Studies				
03.02 - Well Sampling (9)				
Teflon Tubing	1080	feet	$1.40	$1,512.00
Pump Changeout Kit	9	set	$40.00	$360.00
Air Tubing	1080	feet	$0.20	$216.00
			Task 03.02 TTL	**$2,088.00**
03.03 - Structure Sampling				
Teflon Tubing	15	feet	$1.40	$21.00
			Task 03.02 TTL	**$21.00**
			Consumable Supplies Total	**$2,109.00**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

CostFixedFee Company Name
SCHEDULE 2.11(e)
COST-PLUS-FIXED-FEE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
YEC, Inc	Engineering Support Services	$9,563.60

A. Direct Salary Costs 2006 - 2009

Professional Responsibility Level	Labor Classification					Estimated No. of Hours	Total Estimated Direct Salary Cost
Title Here	NSPE IX					0.00	$0.00
Principal	NSPE VIII					0.00	$0.00
	NSPE VII					0.00	$0.00
	NSPE VI					0.00	$0.00
Sr Geologist/Scientist/Eng	NSPE V					6.00	$262.02
Staff Geologist/Scientist/E	NSPE IV					4.00	$151.72
Staff Geologist/Eng/CAD	NSPE III					86.00	$2,832.84
Sr Technician/Staff Engin	NSPE II					0.00	$0.00
Technician/Draftsperson	NSPE I					10.00	$220.70
Total Direct Salary Costs						**106**	**$3,467.28**

B. Indirect Costs

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 117% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Budget for indirect costs is $4,056.72

C. Maximum Reimbursement Rates for Direct Non-Salary Costs

Item	Maximum Reimbursement Rate (Specify Unit)			Estimated No. of Units	Total Estimated Costs
Travel Costs					
Task 3 - Additional Studies					
03.01 - Well Installation & Development Oversight (6)					
Mileage	$0.55	miles/trip	(8 trips)	960	$528.00
Tolls	$18.50	day		8	$148.00
Level D	$10.00	mnday		7	$70.00
Survey Equipment Rental	$65.00	day		1	$65.00
CAD Equipment	$15.00	hour		0	$0.00
GPS Tie-In	$0.00	lump		1	$0.00
Misc Materials	$100.00	lump		1	$100.00
					$911.00
Total Direct Non-Salary Costs					$911.00

D. Fixed Fee (15%)

The fixed fee is $1,128.60

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

Cost Plus Fixed Fee
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
TOTAL

LABOR CLASSIFICATION	IX	VIII	VII	VI	V	IV	III	II	I	LABOR HOURS	DIRECT LABOR
Task 3 - Additional Studies	**0.00**	**0.00**	**0.00**	**0.00**	**6.00**	**4.00**	**86.00**	**0.00**	**10.00**	**106.00**	**$3,467.28**
03.01 - Well Installation & Development Oversight (6)	0.00	0.00	0.00	0.00	6.00	4.00	86.00	0.00	10.00	106.00	$3,467.28
TOTAL LABOR HOURS	0.00	0.00	0.00	0.00	6.00	4.00	86.00	0.00	10.00	106.00	
TOTAL LABOR DOLLARS	$0.00	$0.00	$0.00	$0.00	$262.02	$151.72	$2,832.84	$0.00	$220.70		**$3,467.28**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

Cost Plus Fixed Fee
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
2009

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX $0.00	VIII $64.40	VII $0.00	VI $0.00	V $43.67	IV $37.93	III $32.94	II $24.36	I $22.07	LABOR HOURS	DIRECT LABOR
Task 3 - Additional Studies	**0.00**	**0.00**	**0.00**	**0.00**	**6.00**	**4.00**	**86.00**	**0.00**	**10.00**	**106.00**	**$3,467.28**
03.01 - Well Installation & Development Oversight (6)	0.00	0.00	0.00	0.00	6.00	4.00	86.00	0.00	10.00	106.00	$3,467.28
TOTAL LABOR HOURS	0.00	0.00	0.00	0.00	6.00	4.00	86.00	0.00	10.00	106.00	
TOTAL LABOR DOLLARS	$0.00	$0.00	$0.00	$0.00	$262.02	$151.72	$2,832.84	$0.00	$220.70		$3,467.28

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(f)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	MWBE Mgmt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
Test America	Lab/Sampling	**$508.64**	0	**$10,172.50**

Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	MWBE Mgmt Fee 5% Calculated	MWBE Mgmt Fee 5% Validated	Total Estimated Costs
Task 3 - Additional Studies					
03.01 - Well Installation & Development Oversight (6)					
Waste Characterization					
PP VOA	$135.00 sample	1	$6.75	$6.75	$135.00
DRO	$112.50 sample	1	$5.63	$5.63	$112.50
PCBs	$100.00 sample	1	$5.00	$5.00	$100.00
TCLP Metals	$90.00 sample	1	$4.50	$4.50	$90.00
Ignitability	$25.00 sample	1	$1.25	$1.25	$25.00
Paint Filter Test	$25.00 sample	1	$1.25	$1.25	$25.00
pH	$12.50 sample	1	$0.63	$0.63	$12.50
Reac CN	$43.75 sample	1	$2.19	$2.19	$43.75
Reac S	$43.75 sample	1	$2.19	$2.19	$43.75
TCLP Prep	$60.00 sample	1	$3.00	$3.00	$60.00
				$32.39	**$647.50**
03.02 - Well Sampling (9)					
Groundwater Sampling					
SW846 8260B (9 fld, 1f ld dup, 1 MS, 1 MSD, 1 Equip blnk, 2 Trip blnks)	$85.00 sample	15	$63.75	$63.75	$1,275.00
Nitrates(335.2 method)	$25.00 sample	15	$18.75	$0.00	$375.00
Carbon dioxide(RSK-175)	$80.00 sample	15	$60.00	$0.00	$1,200.00
Methane(category A)	$125.00 sample	15	$93.75	$0.00	$1,875.00
Shippng charge	$100.00 shipment	4	$20.00	$20.00	$400.00
				$256.25	**$5,125.00**
03.03 - Structure Sampling					
Air Sampling					
TO-15 ASP CAT B (12 field, 2 field dups)	$225.00 sample	16	$180.00	$180.00	$3,600.00
Flow Controller per sample	$25.00 sample	16	$20.00	$20.00	$400.00
Shipping per sample	$25.00 sample	16	$20.00	$20.00	$400.00
				$220.00	**$4,400.00**
Sub Con Mgmt Rules					
MWBE always 5%					
Others 5% only when >10,000		**Allowable Totals**		**$508.64**	**$10,172.50**

Air Sampling	*Indoor Air*	*Outdoor Air*	*Dupplicate*	*SubSlab*
Property 2	2	1	1	1
Property 6	3	1	1	1
Property 9	2	1		1

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(f)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	MWBE Mgmt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
EDS (WBE)	Data Validation	**$28.80**	1	**$576.00**

Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	MWBE Mgmt Fee 5% Calculated	MWBE Mgmt Fee 5% Validated	Total Estimated Costs
Task 3 - Additional Studies					
03.02 - Well Sampling (9)					
Groundwater Sampling					
Analysis 15+3 extra for additional analysis	$18.00 sample	18	$16.20	$16.20 **$16.20**	$324.00 **$324.00**
03.03 - Structure Sampling					
Air Sampling					
Analysis 11+5 SubSlab+2 extra for additional analysis	$14.00 event	18	$12.60	$12.60 **$12.60**	$252.00 **$252.00**
Sub Con Mgmt Rules					
MWBE always 5%					
Others 5% only when >10,000		**Allowable Totals**		**$28.80**	**$576.00**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(f)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	MWBE Mgmt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
Advanced Geological Services	Survey	**$0.00**	0	**$1,200.00**

Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	MWBE Mgmt Fee 5% Calculated	Validated	Total Estimated Costs
Task 3 - Additional Studies					
03.01 - Well Installation & Development Oversight (6)					
1/2 day (4hour) Field Day	$1,200.00 event	1	$60.00	$0.00	$1,200.00
				$0.00	**$1,200.00**
Sub Con Mgmt Rules					
MWBE always 5%					
Others 5% only when >10,000		**Allowable Totals**		**$0.00**	**$1,200.00**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(f)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	MWBE Mgmt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
Enviro Testing	Pre-Design Survey Services	**$0.00**	0	**$7,296.25**

Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	MWBE Mgmt Fee 5% Calculated	MWBE Mgmt Fee 5% Validated	Total Estimated Costs
Task 2 - Plans and Specifications					
02.01 - Component 1 Conceptual Design					
Labor	$850.00 day	5	$212.50	$0.00	$4,250.00
Travel	$0.55 mile	425	$11.69	$0.00	$233.75
Vehicle	$262.50 day	5	$65.63	$0.00	$1,312.50
Lodging/PerDiem	$300.00 day	5	$75.00	$0.00	$1,500.00
				$0.00	$7,296.25
Sub Con Mgmt Rules					
MWBE always 5%					
Others 5% only when >10,000		**Allowable Totals**		**$0.00**	**$7,296.25**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
SCHEDULE 2.11(f)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	MWBE Mgmt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
Pure Earth	Disposal	**$0.00**	0	**$9,640.92**

Item	Maximum Reimbursement Rate (Specify Unit)		Estimated No. of Units	MWBE Mgmt Fee 5% Calculated	Validated	Total Estimated Costs
Task 3 - Additional Studies						
03.01 - Well Installation & Development Oversight (6)						
HAZ Disposal	$95.00	ton	15	$71.25	$0.00	$1,425.00
HAZ Spot Container	$650.00	ea	2	$65.00	$0.00	$1,300.00
HAZ Transportation to Disposal Facility	$2,300.00	ea	2	$230.00	$0.00	$4,600.00
HAZ Roll Off rental	$20.00	day	21	$21.00	$0.00	$420.00
HAZ Liner	$45.00	ea	2	$4.50	$0.00	$90.00
HAZ Demurrage	$85.00	hr	2	$8.50	$0.00	$170.00
HAZ Drums	$300.00	ea	5	$75.00	$0.00	$1,500.00
HAZ Tax 1.43%	$135.92	tax	1	$6.80	$0.00	$135.92
					$0.00	**$9,640.92**
Sub Con Mgmt Rules						
MWBE always 5%						
Others 5% only when >10,000			**Allowable Totals**		**$0.00**	**$9,640.92**

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Total Assignment

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							$30,327.46	
2 Indirect Costs							$44,520.73	
3 Subtotal Direct Salary Costs and Indirect Costs							$74,848.19	
4 Travel							$4,982.30	
5 Other Non-Salary Costs							$5,975.00	
6 Subtotal Direct Non-Salary Costs							$10,957.30	
7 Subcontractors							$38,449.27	
8 Total Work Assignment Cost							$124,254.76	
9 Fixed Fee							$7,859.07	
9A Subcon. Mgmt. Fee							$537.44	
10 Total Work Assignment Price							**$132,651.27**	

Project Manager (Engineer) _____

Date _____

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Task 1 - Scoping

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							$5,124.80	
2 Indirect Costs							$7,523.21	
3 Subtotal Direct Salary Costs and Indirect Costs							$12,648.01	
4 Travel							$169.60	
5 Other Non-Salary Costs							$0.00	
6 Subtotal Direct Non-Salary Costs							$169.60	
7 Subcontractors							$0.00	
8 Total Work Assignment Cost							$12,817.61	
9 Fixed Fee							$1,328.04	
9A Subcon. Mgmt. Fee							$0.00	
10 Total Work Assignment Price							**$14,145.65**	

Project Manager (Engineer) _____ Date _____

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Task 2 - Plans and Specifications

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							$7,136.61	
2 Indirect Costs							$10,476.55	
3 Subtotal Direct Salary Costs and Indirect Costs							$17,613.16	
4 Travel							$935.00	
5 Other Non-Salary Costs							$11.00	
6 Subtotal Direct Non-Salary Costs							$946.00	
7 Subcontractors							$7,296.25	
8 Total Work Assignment Cost							$25,855.41	
9 Fixed Fee							$1,849.38	
9A Subcon. Mgmt. Fee							$0.00	
10 Total Work Assignment Price							**$27,704.79**	

Project Manager (Engineer) _____ Date _____

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Task 3 - Additional Studies

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							$18,066.05	
2 Indirect Costs							$26,520.97	
3 Subtotal Direct Salary Costs and Indirect Costs							$44,587.02	
4 Travel							$3,877.70	
5 Other Non-Salary Costs							$5,964.00	
6 Subtotal Direct Non-Salary Costs							$9,841.70	
7 Subcontractors							$31,153.02	
8 Total Work Assignment Cost							$85,581.74	
9 Fixed Fee							$4,681.65	
9A Subcon. Mgmt. Fee							$537.44	
10 Total Work Assignment Price							**$90,800.83**	

Project Manager (Engineer) _____ Date _____

Cost Review for Work Plan or Amendment

Contractor Name: AECOM Technical Services, Inc. **Date:** 9/1/09
WA # and Name: D004436-32 Utility Mfg/Wonder King **Reviewer:** ATE/SU

	GENERAL COST REVIEW CHECKLIST	Yes	No	Comments
	A complete set of 2.11 Schedules (a) through (h) is attached.	x		
	Budget package includes a cover letter and an M/WBE Utilization Plan.	x		
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).			NA
	Schedule 2.11(d)2 - Rates for consultant-owned equipment match Schedule 2.10(c).			NA
	Schedule 2.11(d)4 - Includes equipment to be used only on this WA (such as a blower purchased to upgrade SVE system).	x		
	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		
	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 is provided.	x		
	Total subcontract cost matches amount on Schedule 2.11(a).	x		
	Subcontractor has justified/obtained adequate quotes for any further subcontracted work.			NA
	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.	x		
	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.			NA
	Standby Labs and Data Validators (rotate use) - Unit costs match those in contract(s).	x		
	M/WBE - Cost reasonableness of sole/single source M/WBE contracts <$10k are documented by an engineer's estimate.			NA
	Cost reasonableness of sole/single source contracts are documented by an engineer's estimate or other cost comparisons (e.g., historical costs, pricing guides).			NA
	Placeholders are used only for non-standby subcontractors.			NA
	Cost reasonableness of placeholder subcontractors are documented by an engineer's estimate or other cost comparisons.			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		
	Total subcontract costs match the amounts on Schedule 2.11(a).	x		
	Justification is 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
	Subcontractor certification(s) have been submitted.	x		
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).			
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		

Rev. 12/22/08

Schedule 2.11 (e)
Cost Plus Fixed-Fee Subcontracts

North Hempstead (Westbury) Survey and Sampling

August 6, 2009

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
YEC, INC.	Engineering Support Services	$9,563.60

A. Direct Salary Costs

Professional Responsibilty Level	Labor Classi-fication	Average Reimbursement Rate ($/Hr.)		Maximum Reimbursement Rate ($/Hr.)		Estimated Number of Hours	Total Estimated Direct Salary Cost ($)
Principal	VIII	2009	64.40	2009	64.40	0	0.00
Senior Geologist/Scientist/ Engineer/ Licensed Surveyor	V	2009	43.67	2009	48.03	6	262.02
Staff Geologist/ Scientist/Engineer	IV	2009	37.93	2009	41.74	4	151.72
Staff Geologist/ Scientist/Engineer/CAD Operator	III	2009	32.94	2009	36.55	86	2,832.84
Senior Technician/Staff Engineer/Scientist/Geologist	II	2009	24.36	2009	27.30	0	0.00
Technician/Draftsperson	I	2009	22.07	2009	24.73	10	220.70
						Total Direct Salary Costs:	3,467.28

B. Indirect Costs - 117% of direct salary cost

Indirect Costs:	4,056.72

C. Maximum Reimbursement Rates for Direct Non-Salary Costs:

Item	Maxium Reimbursement Rate	Estimated No. of Units		
Mileage	0.55 /mi.	120 miles/trip	8 trips	528.00
Tolls	18.5 /day	8 trips		148.00
Level D	10 /mnday	7 mndays		70.00
Survey Equipment Rental	65.00 /day	1 days		65.00
CAD Equipment	15.00 /hour	0 hours		0.00
GPS Tie-In	0.00 /lump sum	1 lump sum		0.00
Misc materials	100 /lump sum	1 lump sum		100.00
			Total Direct Non Salary Costs:	911.00

D. Fixed Fee (15% of Total Direct and Indirect Salary Costs)

Fixed Fee:	1,128.60

Assumptions:

Existing tie-in to be used	1 day for Survey
Point file submission, no map	3 days for Well Sampling
AECOM supplies sampling equip.	4 days for Structure Sampling

Pre-Design Support Subcontractor

	Unit Cost	Unit	Qty		Total
Alliance Water	1,500.00	Day	5		**7,500.00**
US Radon	7,500.00	LS	1		**7,500.00**
Enviro Testing					**7,296.25**
Labor	850.00	Day	5	4,250.00	
Travel	0.55	mile	425	233.75	
Vehicle	262.50	Day	5	1,312.50	
Lodging	300.00	Day	5	1,500.00	

Hunt, Claire

From: Laure Kovacs [laure@allianceh2o.com]
Sent: Tuesday, August 04, 2009 2:18 PM
To: Hunt, Claire
Subject: RE: Request for Bid

Hi Claire,

Based on the information provided, I would quote the rate of $150/hour. If you wait until next week, John will be back and able to give you a more detail and precise quote.

Regards,

Laure Kovacs
Office manager

From: Hunt, Claire [mailto:Claire.Hunt@aecom.com]
Sent: Tuesday, August 04, 2009 1:25 PM
To: Laure
Subject: Request for Bid

Laure,

Please provide a cost estimate for the attached scope of work.

Regards,
Claire Hunt
D 973.337.4216
claire.hunt@aecom.com

AECOM Technical Services, Inc.
300 Broadacres Drive
Bloomfield, NJ 07003
T 973.338.6680 F 973.338.1052
www.aecom.com

Hunt, Claire

From: usradon@aol.com
Sent: Wednesday, August 05, 2009 9:33 AM
To: Hunt, Claire
Subject: Re: Request for Bid

Claire our bid for doing only the communication testing at the 3 facilities mentioned will be $7500.00 this includes all travel and hotel expenses. This does not include design, sketching of systems design or etc.

Thank you for this opportunity to service your requirements.

Norman E. Johnson
President
US Radon Inc.

In a message dated 8/4/2009 1:40:38 P.M. Eastern Daylight Time, Claire.Hunt@aecom.com writes:

> Please provide a bid estimate for the attached scope of work by noon on 8/6/09, if possible.
>
> Regards,
>
> Claire Hunt
>
> AECOM Technical Services, Inc.
>
> D 973.337.4216
>
> .

ENVIRO TESTING
"Your Peace of Mind Is Our Business"

27 Downs Avenue
Binghamton, NY 13905
(607) 770-9098
Fax: (607) 729-5154
www.envirotesting.net

August 5, 2009

Ms. Clair Hunt
% Earth Tech/AECOM
300 Broadacres Drive
Bloomfield, NJ 07003

Re: Soil Gas Ventilation
Field Diagnostics
700-712 Main Street
Westbury, NY 11590

Dear Ms. Hunt:

Reference is made to your August 4, 2009 e-mail request for the above noted.

Per our August 5, 2009 telephone discussion, I am enclosing our field rates to provide a two man crew and necessary equipment to work with your on site representative.

ENVIRO TESTING personnel will perform all physical activities outlined in your August 4, 2009 e-mail and provide the information gathered to the on-site Earth Tech representative.

If the above noted work description and attached rates meet with your approval, please sign where referenced and return one copy to our office. Thank you for contacting ENVIRO TESTING.

Sincerely,

Richard J, Tarnowski, Vice-President

Enclosure

RJT/tms

ACCEPTANCE OF PROPOSAL

Signature _____

Date _____

2009 Labor Rate and Equipment Schedule

Project: **Earth Tech Soil Vapor Diagnostics**
700-712 Main Street
Westbury, NY 11590

Contractor: **ENVIRO TESTING**

Trade: **Soil Gas Diagnostics**

Positions	**Straight Time**
Field Supervisor	$45.00/hour
General Laborer	$40.00/hour

Equipment

Light Duty Construction Vehicles: $175.00/day plus mileage (.55/mile) - Includes the following equipment in each company vehicle.

Extension ladder – 24 ft.	Work Boots	Tarps, drop cloths
4', 6', 8' Step ladders	Vacuum meter	First aid kit
Basic hand tools	Plastic tubing	Safety glasses
Circular saw	PVC handsaw	Hard hat
Sawzall	Shop vac	Leather gloves
Cordless drill with bits	Roto zip	Chalk line
Corded drill	Hole hog drill	Pry bar
Roto hammer drill (SDS, spline)	5/16 nut driver	Tape measure
Extension cords (100', 25', etc.)	5" core bit	Utility knife
GFCI protector	Two 5 gallon buckets	Concrete equipment
3-way splitter	Levels (torpedo, 2 ft.& 4 ft.)	Flashlight
Concrete chisel and hammer	2 safety cones, caution tape	Trouble light

ENVIRO TESTING

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27 Downs Avenue
Binghamton, NY 13905
(607) 770-9098
Fax: (607) 729-5154
www.envirotesting.net

Project Cost Estimate
Soil Gas Field Diagnostics
700-712 Main Street
Westbury, NY 11590

1)	Travel to/from Project Site 425 miles @ .55/mile Labor – No Charge	$ 233.75
2)	On-site work activities as directed by Earth Tech representative. Estimate 10 hours at $85.00/crew hour	$ 850.00
3)	Light Duty Construction Vehicle 1.5 days at $175.00/day	$ 262.50
4)	Overnight lodging and meals per diem. Estimate $300.00	$ 300.00
	Total Estimated Project Cost	$ 1,646.25

_____ Accepted

_____ Date

Geophysical Survey Subcontractor

				Enviroprobe	Advanced Geological Services	Geophysical Applications, Inc.
	State:			NJ	PA	MA
Activity		Unit				
1)	Mobilization/Demobilization: Mob/Demob of all					
	equipment for the entire work period including geophysical					
	instruments, support vehicles, incidental materials,					
	lodging and meals. This item shall include expenses					
	incurred, and level D PPE.	lump sum	1	100	Note 1	1030
2)	10 Hour Field day for Underground Utility Location surveys					
	(ground penetrating radar, electromanetic, magentometer,					
	radio detection, etc.) and Underground Storage Tanks	day	1	1400	1200	2050
3)	Hours in excess of a 10-hr day	hour	0	0	0	0
4)	Documentation (scaled sketch map showing utilities, tanks, etc.)			NA	NA	NA
	Total			1500	1200	3080

ENVIROPROBE SERVICE INCORPORATED

PROPOSAL FOR GEOPHYSICAL SERVICES

TO BE PERFORMED AT

North Hempstead, NY

PREPARED FOR

Saby Chatterjee
AECOM
300 Broadacre Drive
Bloomfield, NJ 07003

PREPARED BY

Daniel D. Jonasz
ENVIROPROBE SERVICE, INC.
221 Haddon Avenue
Westmont, New Jersey 08108

July 23, 2009

Proposal Number 90723-GPR3

INTRODUCTION

Enviroprobe Service, Inc. (Enviroprobe) is pleased to provide the following quotation for Geophysical Services to **AECOM**. Enviroprobe maintains a staff of qualified drillers, Geophysical technicians and chemists who provide Geoprobe (DPT), Geophysical (GPR/EM) and mobile Gas Chromatography (GC) services to the environmental consulting and engineering community.

SCOPE OF WORK

Enviroprobe will mobilize and supply a **250 MHz cart-mounted GPR and qualified operator.** The Enviroprobe day-rate includes eight (8) hours site time for the GPR and operator. Enviroprobe will also supply a **Fisher TW-6 Magnetic Locator** and a **Radio Detection (RF)** radio frequency pipe and cable locator for the detection of metallic objects. **(The RF can locate non-metallic lines utilizing Tracer Lines and a Sonde.)**

The purpose of this geophysical investigation is to clear boring locations. Enviroprobe will designate existing X, Y, and Z locations for all detected subsurface utilities including electrical conduits, sanitary sewer laterals, storm sewer drains, gas lines, and water lines within the client specified areas. All findings will be marked on site with paint and/or pin flags and discussed with the client representative. This proposal is based on a day-rate and not lump sum. A basic Letter report will be generated at no additional cost.

All areas to be investigated should be clear for walking. Any traffic in the immediate area needs to be diverted for geophysical activities. No boring or excavation activities should be performed within 2.5' (plus the assumed width of the utility) of any marked utilities. Hand clearing or vacuum-excavation should be performed within 2.5' of any marks. Enviroprobe does not guarantee that utilities will not be encountered during drilling and/or excavation. Markout services performed by Enviroprobe do not satisfy state markout requirements. By law, the appropriate state markout service must be notified prior to any digging activities (i.e. NJ one-call, PA one-call, CT call before you dig, MD & VA miss utility or dig safely NY).

The N250 or N500 GPR unit can penetrate soil at depths of up to eight meters (24'), but this depth may be greatly reduced due to site-specific conditions. Signal penetration decreases with increased soil conductivity. Conductive materials attenuate the GPR signal to greatly reduce the depth penetration achieved. Penetration is greatest in unsaturated sands and fine gravels. Clayey, highly saline and moist soils as well as areas covered by steel reinforced concrete and foundry slag cause reduced GPR penetration.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern (AOCs) requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling around underground structures and

utilities since GPR data can only be used for estimation purposes and GPR data is subject to misinterpretation.

COST ANALYSIS

The following represents the estimated costs for performing a limited scope of work consisting of investigation and location previously described.

Mobilization/Demobilization (North Hempstead, NY)
Geophysical Equipment and Operator.....$ 100.00

Geophysical Equipment and Operator
1 (8 Hr.) days on site ($ 1,400.00/8-Hr. Day).....$ 1,400.00

Reporting
Mark on Site and Basic Letter Report.....$ N/C

Activity Costs **$ 1,500.00**

ACCEPTANCE OF CONTRACT

This Agreement is made this _____ day of _____, 20____, between **AECOM** and Enviroprobe Services, Inc. (Enviroprobe) for the services and compensation as presented herein. Upon acceptance of this Agreement, please provide an executed purchase order for the required services.

Daniel D. Jonasz	_____
Enviroprobe Representative	Client Representative (Name and Title)
_____	_____
Signature	Signature

TERMS AND CONDITIONS

1. GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern (AOCs) requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling around underground structures and utilities since GPR data can only be used for estimation purposes and GPR data is subject to misinterpretation.
2. Free and clear access to all work areas must exist for all equipment.
3. All work will be completed in a professional workmanlike manner as per standard industry practices.
4. This contract does not include any site restoration, unless otherwise specified.
5. Any damage claims arising from performance of this project shall be strictly limited to the costs of services provided by Enviroprobe Service, Inc.
6. Any costs arising from alteration or deviation from the project specifications will be incurred by the Client.
7. Enviroprobe is not liable for damages caused by delays in performance of the services which arise from events beyond its reasonable control.
8. In the event that Client or Client's principal shall bring any suit, cause of action or counterclaim against Enviroprobe, to the extent that Enviroprobe shall prevail, the party initiating such action shall pay to Enviroprobe the costs and expenses incurred to answer and or defend such action, including reasonable attorney's fees and court costs. In no event shall Enviroprobe indemnify any other party for the consequences of the party's negligence, including failure to follow Enviroprobe's recommendations.
9. Enviroprobe is not responsible for the accuracy or validity of information obtained from others and utilized in the services covered under this contract.
10. In the event that the Client requests termination of the work prior to the completion of the contract, Enviroprobe reserves the right to complete such analysis and records as are necessary to place its files in order and where considered by it necessary to protect its professional reputation, to complete a report on the work performed to date.
11. Invoices not paid within 30 days of billing are subject to a 1.5% interest charge per month.

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

ADVANCED GEOLOGICAL SERVICES

PROPOSAL FOR LIMITED GEOPHYSICAL SERVICES

AGS Proposal Number: AGS-09-223-1 Date: July 23, 2009

Client: AECOM/Earth Tech, Inc.			Telephone: 973-338-6680
Address: 300 Broadacres Drive,			email: saby.chatterjee@aecom.com
City: Bloomfield	State: NJ	Zip: 07003	Contact Person: Saby Chatterjee

Site: New Hampstead Site			Telephone: ( )
Address: 307			
City: New Hampstead	State: NY	Zip:	Contact Person:
Description of Site: Clear six proposed drilling locations of underground utilities.			

1.0 Scope of Work

AGS is pleased to provide Earth Tech, Inc (the "Client") with limited geophysical survey services (the "Investigation"). Based on our current understanding, the objective of this investigation is to clear six proposed soil boring located inside of a building of buried utilities and potential subsurface drilling hazards.

1.1 Proposed Field Methods

AGS proposes to meet the objective of this investigation by using the radio frequency (RF) utility locating method and the ground penetrating radar (GPR) geophysical method. The RF method can be used to trace active electric lines when in the passive mode, and trace other utilities via direct hookup or induction. A RD400 or RD4000 by Radio-Detection, Inc. will be used for the RF portion of the survey.

GPR data will be collected in an approximate grid pattern across each proposed drilling location to identify any utilities. GPR data will be collected using a GSSI SIR-2, or SIR3000 imaging system and a 400 Megahertz (MHz) antenna.

AGS will clear a 10-foot radius around each proposed drilling location, space permitting. It is anticipated that these instruments will provide the required resolution and depth of investigation necessary to meet the project objective.

AGS anticipates that the above-described fieldwork will be completed in one-half (½) day. Like all fieldwork, AGS' performance of the Investigation could be delayed or interrupted by unfavorable weather conditions or other causes not under the control of AGS. In such event, AGS will attempt to reschedule the Projected Start Date or continue with the Investigation as soon as possible, taking into consideration other scheduled work or subsequent force majeure events.

1.2 Deliverables

The geophysical data collected during this investigation will be archived at the AGS office. AGS will submit a Letter Report of Findings (the "Report") for the site location, at the conclusion of the Investigation. The Report is anticipated to include:

- a description of survey methods,
- a summary of field activities, and
- results of the investigation

AGS will set forth its findings in the Report, following the guidelines outlined above, to be delivered to the Client within fourteen (14) business days after completion of the field survey. Because all underground anomalies may not be recognized during the on-site portion of this investigation, it is recommended that no excavation or other construction-related activities should be initiated until the final review has been completed.

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

2.0 Proposed Costs

AGS proposes to perform the Investigation, in accordance with the terms and conditions herein, for the half-day rate (up to 4 hours on site) of **$1,200.00** (the "Proposed Cost").

Unless otherwise noted, the Proposed Cost is all-inclusive, incorporating labor and materials, mobilization and demobilization, report preparation, mileage, tolls, etc. Costs of express mail service, if necessary, will be in addition to the proposed cost and no mark-up will be added.

Additional field days, if necessary and authorized by the client, will be charged at a daily rate of Two Thousand Dollars ($2,000.00), plus expenses. Additional reporting time, if required to complete client requested tasks beyond those proposed above (Section 1.2, Deliverables) will be charged at $85.00 per hour. Invoices will be issued at the completion of the Investigation, delivery of the Report and/or end of the month, payable net 10 days from the date of the invoice.

3.0 Standard of Care

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

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

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

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

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

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

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

(vi) manage and properly and legally dispose of any used personal protective equipment, decontamination fluids or related wastes generated by AGS during the course of the investigation, when such equipment or procedures are, in AGS' judgment, warranted due to the presence (or suspected presence) at the site of hazardous substances or pollutants.

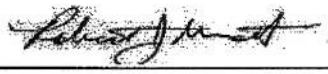
AGS reserves the right to discontinue the Investigation and withdraw from the site if such requirements are not met, or if performance of the Investigation would, in AGS' judgment, pose an unreasonable risk to AGS personnel or equipment.

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

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

Respectfully submitted,

ADVANCED GEOLOGICAL SERVICES, INC.



Robert J. Mundt — *President* Title

Accepted and Authorized by Client:

Name — Date

Print Name & Title:

GEOPHYSICAL
APPLICATIONS
INCORPORATED

July 23, 2009

Dr. Saby Chatterjee
AECOM
30 Broadacres Drive
Bloomfield, NJ 07003

phone: 973-338-6680
fax: 973-338-1052

Subject: Proposal for Geophysical Services
Borehole Clearance for Monitoring Wells
North Hempstead, NY – Nassau County

Dear Dr Chatterjee:

Geophysical Applications, Inc. is pleased to submit this proposal for surveys designed to detect possible subsurface utilities and other drilling impediments to a depth of approximately 8 to 10 feet near six proposed borings. We understand that the survey area is a paved parking lot with vehicular access.

We propose to complete this survey using ground penetrating radar (GPR) profiling, augmented with pipe and cable locating instruments and a handheld metal detector. We recommend that AECOM have Dig Safe markouts completed prior to geophysical surveying.

PROPOSED WORK SCOPE

Survey Grid

We will establish a reference grid up to 20 by 20 feet in size centered on each proposed boring location before geophysical data acquisition. The grids will be denoted by chalk or spray paint marks at 5-foot intervals. The grids will be referenced to nearby semi-permanent features (walls, fences, curbs, etc. if possible). If the boring locations are not pre-numbered, we will establish our own numbering system for our sketch maps. Grid corner coordinates can be spray painted for future grid reconstruction if desired by AECOM.

Ground Penetrating Radar Profiling

GPR data will be obtained with a GSSI model SIR-2000 radar instrument coupled to a 400-Megahertz antenna. GPR can typically identify large or laterally-extensive objects (including metallic or concrete pipes) at depths up to 8 or 10 feet below ground surface in granular soils. Pipes or conduits less than two inches in diameter may only be detected at depths less than a couple of feet. PVC or vitreous clay pipes may not always be detected by GPR.

Shallow groundwater, concrete slabs, reinforcing steel, or electrically conductive materials (especially clay or residual roadway deicing salts) may reduce GPR signal-penetration depths. In addition, GPR signals cannot penetrate standing water (i.e. puddles). GPR data will be displayed on a color monitor to facilitate preliminary on-site data interpretation. Digital GPR data will also be downloaded to a computer and transferred to a CD-ROM for archival purposes.

GPR profiling will be performed along perpendicular traverses located 2.5 feet apart. Additional traverses may be recorded as needed to resolve the lateral extent of buried objects identified during the fieldwork.

Pipes or other discrete objects typically produce inverted U-shaped GPR reflections. We will interpret buried objects' dimensions directly from GPR records. Inferred objects' depths will be estimated using GPR signal velocities from similar sites.

We will conduct a preliminary interpretation of the GPR data in the field, per AECOM's request. Obvious interpreted utilities will be marked on the ground surface within each survey area. If a proposed boring location needs to be shifted, we will mark a preferred drilling location on the ground. A final GPR interpretation will be performed in our offices using GSSI's RADAN for Windows software package. Note that post-processing sometimes reveals additional drilling obstructions not evident in the raw data. We generally recommend that drilling be performed after completion of these final sketches; however we realize that this may not always be possible.

Final GPR interpretations will be shown on hand-drawn sketch maps, accompanied by a brief report that describes the survey methods and results. Copies of these sketches can be faxed to AECOM as they are completed upon request.

Pipe and Cable-Locating Instruments

Up to three pipe-locating instruments will be available on-site to help trace metallic pipes, or to spot-check GPR reflections judged to possibly represent buried metal. The Schonstedt model GA-72CD instrument emits a high-pitched audible tone near ferrous objects. It can help distinguish GPR reflections caused by ferrous objects (such as pipes) from non-ferrous objects (such as boulders).

The Metrotech model 810 and Radiodetection models RD400 and RD4000 instruments use separate transmitting and receiving units to trace weak electrical signals induced in metallic pipes or cables. Current induction is achieved by connecting the transmitter to a visible portion of the desired pipe or cable, or (in suitable conditions) placing the transmitter on the ground surface above the subject pipe or cable. The induced current is subsequently traced with a handheld receiver unit. In most cases, these instruments can estimate buried pipe or cable depths in inches.

The Metrotech 50/60 and the RD instruments in the passive mode detect cables carrying an active electric current under load. We will scan each proposed borehole location with this method to look for energized lines within the survey grid.

SCHEDULE AND BUDGET

AECOM's requested breakdown of our fees is detailed below. Our day rates are taken from our March 2008 contract with AECOM for New York State sites. We anticipate completing this fieldwork in one day on site (up to a 10-hour day). The actual field work duration will depend on several factors including the complexity of the interpretation and the amount of pipe-locating performed.

The costs listed below include one geophysicist and all expenses required for mobilization/demobilization, travel, data acquisition and analysis, and report preparation. If AECOM desires to increase the scope of work, we have also provided a half-day rate, as requested.

- Mobilization to the site the night before, including overnight stay $ 1,030
- Daily rate for survey crew (one person, 10-hour day) $ 2,050

- Half-day rate for survey crew (one person, 4 to 5 hours) $ 1,030
- Hourly overtime rate beyond 10 hours per day $ 160 per hour

Our fees assume standard payment terms of net 30 days. We can provide an insurance certificate upon request as evidence of current commercial general liability, professional liability, automobile liability, and worker compensation insurance.

*****

Please note that survey coverage will be most thorough if aboveground obstacles, such as cars, equipment, debris and dumpsters are removed prior to gridding and geophysical surveying. If this survey is conducted during cold weather, the use of deicing salts should be avoided before and during the survey, as these substances can greatly reduce GPR signal penetration.

We appreciate this proposal opportunity, and we look forward to working with you. Please call the undersigned at 508/429-2430 if you need additional information to evaluate our proposal, or to schedule this survey.

Sincerely,

GEOPHYSICAL APPLICATIONS, INC.

C. Sullivan

Charlene Sullivan
Geophysicist

M. E. Blackey

Mark E. Blackey
Principal and Geophysicist

AECOM_N Hempstead-hdr.doc

Soil Cutting Disposal Subcontractor

Roll Offs	Unit	Qty	EWMI	Total	Pure Earth	Total	ycle Chem	Total
Disposal	ton	15	275	4,125	95	1,425	95	1,425
Spot Container	ea	1	475	475	650	650	650	650
Transportation to Disposal Facility	ea	1	750	750	2,300	2,300	2,300	2,300
Roll Off Rental	day	21	15	315	20	420	20	420
Liner	ea	1	50	50	45	45	45	45
Demurrage	hr	1	100	100	85	85	85	85
				5,815		4,925		4,925
Drums	ea	5	85	425	300	1,500	312	1,560
Transportation if not included above	ea	1	350	350	included		650	650
Manifest	ea	1					25	25
QA/QC	ea	1					40	40
Fuel Surcharge			0%	0	0%	0	18%	117
Tax			1.43%	11	1.43%	21	1.43%	34
				775		1,500	65	2,210
Total				6,590		6,425		7,135

Environmental Waste Minimization, Inc.
EWMI

14 Brick Kiln Court
Northampton, PA 18067
Ph: (484) 275-6900
Fax: (484) 275-6970
www.ewmi-info.com

Phone: (973) 338-6680
Fax: (973) 338-1052

July 29, 2009

Mr. Saby Chatterjee
AECOM Environment
300 Broadacres Drive
Bloomfield, NJ 07003

REFERENCE: **FQB #103173 – FORMAL QUOTATION**
IDW Waste – NYSDEC – North Hempstead, NY

Dear Mr. Chatterjee:

Environmental Waste Minimization, Inc. (EWMI) is pleased to provide this proposal for the materials referenced below. Our pricing is based upon your email correspondence dated July 27, 2009.

Pricing Summary:

Waste Stream	Waste Category	Specifications	Price per Unit
1	Soil Cuttings	➢ RCRA Non-Hazardous ➢ DOT Non-Regulated ➢ No Free Liquids	$105.00/ton Or $85.00/drum
2	Soil Cuttings	➢ RCRA Hazardous (F002) ➢ DOT Regulated (Class II) ➢ No Free Liquids ➢ Must Meet Treatment Standards	$275.00/ton Or $250.00/drum

Roll-Off Container Spot Fee $475.00/spot
Roll-Off Container Rental Fee $15.00/day
Roll-Off Container Liner $50.00/liner
Transportation of Roll-Off Container to Disposal Facility $750.00/load
Transportation of Drums $350.00/load

Notes:

1. Disposal pricing contingent upon waste approved and accepted by designated disposal facility.
2. Generator or designated agent must sign waste profile sheets and waste shipping papers.
3. Generator is responsible for any additional charges due to non-conforming waste.

4. A no load fee of $475.00/load will apply for trucks ordered and not used.
5. Loads requiring a washout will be subject to a $350.00 washout fee.
6. Taxes, if applicable, are not included.
7. Per unit pricing shall prevail.
8. Free and clear access must be provided.

One (1) hour waiting, loading, and unloading time is included in your transportation rate. When additional time is required, a demurrage charge of $25.00 per quarter hour or fraction thereof will apply. In addition, should on-site field labor be required, Environmental Waste Minimization, Inc. (EWMI) will invoice this service at $48.00 per hour per man, portal to portal.

An EPA identification number must be furnished in order to initiate a hazardous waste pickup. EWMI will assist the generator on obtaining an EPA identification number if requested for a fee of $75.00.

EWMI has based our proposal on certain bidding assumptions. The cost estimates are our best good faith estimates on the amount of time and materials, which will be required to safely handle the projects. EMWI's team will work diligently and closely with AECOM Environment to effectively manage the project. EWMI will complete detailed daily records for all activities performed. Invoicing will be based on the task and the actual work completed. Estimates may be reduced or increased based on the actual time and materials utilized to complete the work. EWMI will communicate immediately and continuously throughout the project with AECOM Environment on progress. EWMI's invoicing will be based on our unit rates quoted in this proposal and on our rate sheet for items not proposed.

This pricing is in effect for thirty (30) days from the date of this correspondence. Rates do not include any federal, state or local taxes or fees, including hazardous waste taxes, which may be imposed.

Upon award, this project will be administered and billed by Environmental Waste Minimization, Inc. Any purchase orders and/or contracts resulting from this quotation shall be executed in the name of Environmental Waste Minimization, Inc.

Environmental Waste Minimization, Inc. requires 100% payment within thirty (30) days of the date of invoicing (pending credit approval). A 1.5% surcharge will be added following the thirty (30) days.

To schedule this project, please contact Customer Service at 484.275.6900.

Please acknowledge and return a copy of this quotation along with a purchase order number to indicate your acceptance of these terms and the separate page of Environmental Terms and Conditions. Acknowledged quotations can be faxed* to *484.275.6970* Attn*: Customer Service Department.

The contents of this proposal are confidential and are provided to you for the sole purpose of bid evaluation and strategies for our environmental management services. Distribution or dissemination of any information contained within our proposal without the prior approval of EWMI is strongly discouraged. EWMI greatly appreciates your assistance in maintaining our innovative competitive programs.

On behalf of all of us at Environmental Waste Minimization, Inc., I greatly appreciate the opportunity in providing this proposal for your consideration. We look forward to a favorable review of our quotation and towards a future relationship. Should you have any questions, please contact us at 484.275.6900.

ACKNOWLEDGMENT:

Respectfully,

Greg Inman

(Electronic Signature)

Greg Inman
Sales Manager

Name:_____

Signature: _____

Date:_____

P.O. #:_____

Hunt, Claire

From: Chatterjee, Saby
Sent: Tuesday, August 04, 2009 5:08 PM
To: Hunt, Claire
Subject: Pure Earth Price

Attachments: img-8041445-0001.pdf

img-8041445-0001.pdf (42 KB)

Attached is the pure earth's price quote. Its handwritten, I will ask him to make a formal submission

Saby Chatterjee, PhD
Project Manager
AECOM Environment
D 973.337.4210
Fax: 973-338-1052
Saby.chatterjee@aecom.com

-----Original Message-----
From: Stephen Shapiro [mailto:sshapiro@pureearthinc.com]
Sent: Tuesday, August 04, 2009 4:10 PM
To: Chatterjee, Saby
Subject: FW: North Hempstead

Saby,

Please contact me with any questions
Thanks

Steve Shapiro
Vice President
Pure Earth Disposal Group Inc.
2545 Hempstead Turnpike,Ste201
East Meadow, NY 11554
(516) 605 2110
(516) 605-2117 (Fax)
sshapiro@pureearthinc.com

-----Original Message-----
From: SSHAPIRO@PUREEARTHINC.COM [mailto:SSHAPIRO@PUREEARTHINC.COM]
Sent: Tuesday, August 04, 2009 3:45 PM
To: Jeff Berger; Stephen Shapiro
Subject: North Hempstead

NA2

Roll Offs	Unit	Qty	Pure Earth	Total
Disposal	ton		$95.00/TON	0
Spot Container	ea	1	$1,500.00 EA.	0
Transportation to Disposal Facility	ea	1	$2,500.00	0
Additional Charges	ea		ANY APPLICABLE TAX	
Roll Off Rental	day		$20.00/DAY	0
Liner	ea		$45.00	0
Demurrage	hr		$85.00/HR	0
				0
Drums	ea		300.00/DRUM	0
~~Transportation if not included above~~	ea			0
				0

Non-Haz

Roll Offs	Unit	Qty	Pure Earth	Total
Disposal	ton		$31.00/Ton	0
Spot Container	ea	1	$350.00 EA	0
Transportation to Disposal Facility	ea	1	$750.00 EA	0
Additional Charges	ea		Any Applicable Tax	
Roll Off Rental	day		$20.00/DAY	0
Liner	ea		$45.00	0
Demurrage	hr		$85.00/Hr.	0
				0
Drums	ea		$29.00/Drum	0
Transportation if not included above	ea			0
				0

Hunt, Claire

From: Frank Amador [frank.amador@cyclechem.com]
Sent: Monday, July 27, 2009 3:39 PM
To: Chatterjee, Saby
Subject: BallParkEstimate_1.doc

Cycle Chem, Inc
201 South First Street Elizabeth, NJ 07206 PHONE: 908-355-5800, FAX: 908-355-0562

Estimated Cost For Waste Disposal

Date Printed: 7/27/09 **Estimate Number:** 20735-1 NORTH HEMPSTEAD, NJ **Sales Code:** MEY

Contact: SABY CHATTERJEE **Phone:** (973) 338-6680 **Fax:** (973) 338-1052

Customer: 947381-AECOM ENVIRONMENT

Product Code	Description	Volume	Units	Price	Total
PC04	NON HAZ DRILL CUTTING	TBD	55 G DM	$73.00	TBD
PC04 terms of pricing: Non-RCRA only; PH 4-10; FP >140 F; Heat of dilution < 10 deg. C; Bulks to off-load must have full and empty weight tickets if priced per ton					
CM1	SOIL CONT. W/ TCE & PCE- D waste and total vols<500 PPM	TBD	55 G DM	$184.00	TBD
CM1 terms of pricing: Debris <3' x 3' x 3'; VOC <500 PPMW; sulfides <500 PPM; total cyanides <590 PPM; amenable cyanide <250 PPM; no free liquids; FP> 140 F; PH 4-10; PCB <10 PPM; EPA waste codes D004-D011,D018,D019, D022-D030,D039,D040,D043 only; No Activated Carbon					
R02	SOIL CONT. W/ TCE & PCE- F waste	TBD	55 G DM	$312.00	TBD
R02 terms of pricing: Must be shreddable; PH 4-10; <250 PPM reactive cyanide; <500 PPM reactive sulfides; halogens <5; no intact containers; <50 PPM PCB, no concrete/bricks or metal pipes					

Estimated Disposal Cost	TBD
Manifest Preparation at $25.00 per manifest	$25.00
Label Preparation	TBD
QA/QC Fee (1 at $40.00 /load)	$40.00
5% Regulatory Administrative Fee	TBD
Transportation (1 load at $650.00 /load)	$650.00
Fuel Surcharge on Transportation Charges @ 18.00%	$117.00
Estimate Total	TBD

Estimate Notes: Fuel surcharge is adjusted week to week, and may be different at the time of pick-up. Demurrage rate is $75.00 /hr after 1 hr(s).

This is a price estimate based upon the information provided by the contact indicated above. **THESE ARE NOT FIRM PRICES.** Firm pricing will be established after the submittal and approval of a completed Material Profile Sheet (MPS) and the generation of a formal quote letter. *Off-spec charges may be applied to waste received that does not conform/match the approved profile.* This estimate is valid for 30 days. Any cancellation requires a 24 hour notice prior to pick up or a fee of up to 50% of the transportation cost may be applied.

NJ Recycling Tax of $3.00/Ton for bulk or 1.43% for containerized waste will be added to all shipments of non-RCRA solids (ID27), asbestos (ID27A) or household hazardous waste (ID10). If Cycle Chem arranges transportation, NJ Hazardous Tax of $1.67/Ton will be added to all shipments of RCRA-hazardous waste.

If the above conditions and charges are acceptable, please sign and date and fax back to CCI at (908) 355-0562. If there are any questions regarding this proposal, please contact Todd Meyer or Frank Amador at (908) 355-5800.

Signature:_____ Date:_____
PO#_____

Estimate Number: 20735-1 NORTH HEMPSTEAD, NJ

Hunt, Claire

From: Frank Amador [frank.amador@cyclechem.com]
Sent: Monday, July 27, 2009 3:44 PM
To: Chatterjee, Saby
Subject: BallParkEstimate.doc

Cycle Chem, Inc
201 South First Street Elizabeth, NJ 07206 PHONE: 908-355-5800, FAX: 908-355-0562

Estimated Cost For Waste Disposal

Date Printed: 7/27/09 **Estimate Number:** 20735-1 NORTH HEMPSTEAD, NJ **Sales Code:** MEY

Contact: SABY CHATTERJEE **Phone:** (973) 338-6680 **Fax:** (973) 338-1052

Customer: 947381-AECOM ENVIRONMENT

Product Code	Description	Volume	Units	Price	Total
PC01	NON HAZ DRILL CUTTING	TBD	per TON, RO	$113.00	TBD
PC01 terms of pricing: plus $100 handling fee; 5 ton Minimum billing; Non-RCRA only; No free liquids; Heat of dilution < 10degrees C; PH 4-10; FP >140 F; Bulk loads must have full and empty weight tickets and density >1000#/cu yd; No intact drums; No fine, dusty material					

Estimated Disposal Cost	TBD
Manifest Preparation at $25.00 per manifest	$25.00
QA/QC Fee (1 at $40.00 /load)	$40.00
5% Regulatory Administrative Fee	TBD
Estimate Total	TBD

Estimate Notes: Transportation not included.

This is a price estimate based upon the information provided by the contact indicated above. **THESE ARE NOT FIRM PRICES.** Firm pricing will be established after the submittal and approval of a completed Material Profile Sheet (MPS) and the generation of a formal quote letter. *Off-spec charges may be applied to waste received that does not conform/match the approved profile.* This estimate is valid for 30 days. Any cancellation requires a 24 hour notice prior to pick up or a fee of up to 50% of the transportation cost may be applied.

NJ Recycling Tax of $3.00/Ton for bulk or 1.43% for containerized waste will be added to all shipments of non-RCRA solids (ID27), asbestos (ID27A) or household hazardous waste (ID10). If Cycle Chem arranges transportation, NJ Hazardous Tax of $1.67/Ton will be added to all shipments of RCRA-hazardous waste.

If the above conditions and charges are acceptable, please sign and date and fax back to CCI at (908) 355-0562. If there are any questions regarding this proposal, please contact Todd Meyer or Frank Amador at (908) 355-5800.

Signature:_____ Date:_____
PO#_____

Estimate Number: 20735-1 NORTH HEMPSTEAD, NJ

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It does include a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at: http://www.wadsworth.org/labservices.htm).

2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.

3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. (Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors, the COI certification must be submitted to the project manager upon activation.)

4. For subcontracts in excess (or anticipated to be) of $10,000 the subcontractor submitted an acceptable New York State Uniform Contracting Questionnaire. For subconsultants in excess (or anticipated to be) of $10,000 the subconsultant submitted an acceptable New York State Vendor Responsibility Questionnaire. (Information related to vendor responsibility can be found at http://www.osc.state.ny.us/agencies/gbull/g221.htm.)

5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises/WBE and Conflict of Interest (COI).

6. The Subcontract includes the termination clause required in the prime contract.

7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.

8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at: http://www.ins.state.ny.us and Best's Rating can be determined at http://www.ambest.com). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) is included as appropriate.

9. Documentation supporting this certification is maintained and will be provided within 10 days of any request.

[signature]	9/3/09
Signature of Contractor's Authorized Representative	Date
AECOM Technical Services Northeast, Inc.	D004436-32
Contractor Name	Contract No. WA No.
TestAmerica	
Subcontractor Name	3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It does include a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at: http://www.wadsworth.org/labservices.htm).

2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.

3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. (Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors, the COI certification must be submitted to the project manager upon activation.)

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5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises/WBE and Conflict of Interest (COI).

6. The Subcontract includes the termination clause required in the prime contract.

7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.

8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at: http://www.ins.state.ny.us and Best's Rating can be determined at http://www.ambest.com). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) is included as appropriate.

9. Documentation supporting this certification is maintained and will be provided within 10 days of any request.

[signature]	9/3/09
Signature of Contractor's Authorized Representative	Date
AECOM Technical Services Northeast, Inc.	D004436-32
Contractor Name	Contract No. WA No.
YEC, Inc.	
Subcontractor Name	3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It does include a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at: http://www.wadsworth.org/labservices.htm).

2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.

3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. (Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors, the COI certification must be submitted to the project manager upon activation.)

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5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises/WBE and Conflict of Interest (COI).

6. The Subcontract includes the termination clause required in the prime contract.

7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.

8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at: http://www.ins.state.ny.us and Best's Rating can be determined at http://www.ambest.com). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) is included as appropriate.

9. Documentation supporting this certification is maintained and will be provided within 10 days of any request.

[signature]	9/3/09
Signature of Contractor's Authorized Representative	Date
AECOM Technical Services Northeast, Inc.	D004436-32
Contractor Name	Contract No. WA No.
Advanced Geological Services, Inc.	
Subcontractor Name	3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It does include a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at: http://www.wadsworth.org/labservices.htm).

2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.

3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. (Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors, the COI certification must be submitted to the project manager upon activation.)

4. For subcontracts in excess (or anticipated to be) of $10,000 the subcontractor submitted an acceptable New York State Uniform Contracting Questionnaire. For subconsultants in excess (or anticipated to be) of $10,000 the subconsultant submitted an acceptable New York State Vendor Responsibility Questionnaire. (Information related to vendor responsibility can be found at http://www.osc.state.ny.us/agencies/gbull/g221.htm.)

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6. The Subcontract includes the termination clause required in the prime contract.

7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.

8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at: http://www.ins.state.ny.us and Best's Rating can be determined at http://www.ambest.com). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) is included as appropriate.

9. Documentation supporting this certification is maintained and will be provided within 10 days of any request.

[signature]	9/3/09
Signature of Contractor's Authorized Representative	Date
AECOM Technical Services Northeast, Inc.	D004436-32
Contractor Name	Contract No. WA No.
Environmental Data Services	
Subcontractor Name	3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It does include a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at: http://www.wadsworth.org/labservices.htm).

2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.

3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. (Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors, the COI certification must be submitted to the project manager upon activation.)

4. For subcontracts in excess (or anticipated to be) of $10,000 the subcontractor submitted an acceptable New York State Uniform Contracting Questionnaire. For subconsultants in excess (or anticipated to be) of $10,000 the subconsultant submitted an acceptable New York State Vendor Responsibility Questionnaire. (Information related to vendor responsibility can be found at http://www.osc.state.ny.us/agencies/gbull/g221.htm.)

5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises/WBE and Conflict of Interest (COI).

6. The Subcontract includes the termination clause required in the prime contract.

7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.

8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at: http://www.ins.state.ny.us and Best's Rating can be determined at http://www.ambest.com). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) is included as appropriate.

9. Documentation supporting this certification is maintained and will be provided within 10 days of any request.

[signature]	9/3/09
Signature of Contractor's Authorized Representative	Date
AECOM Technical Services Northeast, Inc.	D004436-32
Contractor Name	Contract No. WA No.
Enviro Testing	
Subcontractor Name	3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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

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[signature]	9/3/09
Signature of Contractor's Authorized Representative	Date
AECOM Technical Services Northeast, Inc.	D004436-32
Contractor Name	Contract No. WA No.
Pure Earth Disposal Group	
Subcontractor Name	3/2/07

Work Assignment No: D004436-32
Engineer: AECOM Technical Services Northeast, Inc.
Site ID No: 130043H

Site Name: Utility Manufacturing/Wonder King
Project No:
Date Prepared: 10/15/09

AECOM Technical Services Northeast, Inc.
TABLE 1.0
SUMMARY OF BUDGETED PROJECT COSTS

TASK	Direct Labor (a)	Indirect Costs 146.80%	Fixed Fee 10.5%	Travel & Subsistence	Other Direct Costs(c)	Cost plus Fixed Fee (d) Subcontractor	Sub Con Management Fee 5%	Unit Price (e) Subcontractor	TOTAL COLUMNS (1A-5)
Task 1 - Scoping	**$5,124.80**	**$7,523.21**	**$1,328.04**	**$169.60**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$14,145.65**
Task 2 - Plans and Specifications	**$7,136.61**	**$10,476.55**	**$1,849.38**	**$935.00**	**$11.00**	**$0.00**	**$0.00**	**$7,296.25**	**$27,704.79**
02.01 - Component 1 Conceptual Design	$3,397.79	$4,987.96	$880.50	$832.00	$11.00		$0.00	$7,296.25	$17,405.50
02.02 - Component 2 Draft Design	$1,855.09	$2,723.27	$480.73	$50.00	$0.00				$5,109.09
02.03 - Component 3 Final Design	$1,127.79	$1,655.60	$292.26	$50.00	$0.00				$3,125.65
02.04 - Component 4 Project Cost Estimate	$755.94	$1,109.72	$195.89	$3.00	$0.00				$2,064.55
Task 3 - Additional Studies	**$18,066.05**	**$26,520.97**	**$4,681.65**	**$3,877.70**	**$5,964.00**	**$9,563.60**	**$537.44**	**$21,589.42**	**$90,800.83**
03.01 - Well Installation & Development Ov	$4,259.10	$6,252.36	$1,103.70	$1,104.00	$1,475.00	$9,563.60	$32.39	$11,488.42	$35,278.57
03.02 - Well Sampling (9)	$1,374.08	$2,017.15	$356.08	$526.20	$4,143.00	$0.00	$272.45	$5,449.00	$14,137.96
03.03 - Structure Sampling	$1,594.33	$2,340.48	$413.16	$701.60	$346.00		$232.60	$4,652.00	$10,280.17
03.04 - SSDS Installation Oversight	$6,266.48	$9,199.19	$1,623.90	$1,446.40	$0.00				$18,535.97
03.05 - SSDS Information Package Preparati	$2,629.50	$3,860.11	$681.41	$19.50	$0.00				$7,190.52
03.06 - Annual Long term Monitoring Repor	$1,942.56	$2,851.68	$503.40	$80.00	$0.00				$5,377.64
Sub Con Mgmt Rules MWBE always 5% Others 5% only when >10,000									
TOTALS	**$30,327.46**	**$44,520.73**	**$7,859.07**	**$4,982.30**	**$5,975.00**	**$9,563.60**	**$537.44**	**$28,885.67**	$132,651.27