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Work Plan for Operations and Maintenance Services Niagara Transformer Corporation Site

Site Number 9-15-146

November 2006

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7014

Prepared by:

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Table of Contents

Table of Contents (Cont.)

List of Tables

List of Acronyms

CSX	CSX Transportation, Inc.
DER	Division of Environmental Remediation
EEEPC	Ecology and Environment Engineering, P.C.
EEO	Equal Employment Opportunity
EPA	United States Environmental Protection Agency
E/W	east/west
EWTS	Emergency Water Treatment System
FS	Feasibility Study
GAC	granular activated carbon
HDPE	high-density polyethylene
IRM	Interim Remedial Measure
LOE	level of effort
MBE/WBE	Minority-owned Business Enterprise/Woman-owned Business Enterprise
NAPL	non-aqueous phase liquid
NTC	Niagara Transformer Corporation
NYSDEC	New York State Department of Environmental Conservation
O&M	Operations and Maintenance
PCBs	polychlorinated biphenyls
ppm	parts per million
PM	project manager

List of Acronyms (Cont.)

RI	Remedial Investigation
ROD	Record of Decision
SOW	Scope of Work
WA	Work Assignment

1 Introduction

Pursuant to Work Assignment (WA) No. D004442-12 received on September 19, 2006, Ecology and Environment Engineering, P.C. (EEEPC) is submitting to the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER), this work plan for Operations and Maintenance (O&M) services for the Niagara Transformer Corporation (NTC) Site located in Cheektowaga, New York.

Section 2 of this work plan summarizes the site background and the work plan scope. Section 3 details the major tasks and subtasks. Section 4 presents a discussion of major milestones of the project and a project schedule. Section 5 discusses opportunities for subcontracting within this WA. Section 6 provides a detailed budget prepared in accordance with contractual reporting requirements, including the 2.11 Forms. Section 7 provides the staffing plan for key team members. Section 8 presents the Minority-owned Business Enterprise/Woman-owned Business Enterprise (MBE/WBE) utilization plan.

2 Background and Scope of Work

This section provides information on the background and scope of O&M services to be completed at the NTC site.

2.1 Site Background

This 3.6-acre site, located in the Town of Cheektowaga, is owned by NTC, a manufacturer/repairer of electrical transformers. An active manufacturing/office facility, a storage building, and aboveground oil storage tanks are located on the site. Releases of PCB-contaminated transformer oil have contaminated soil, groundwater, surface ditches, and a retention pond. The Record of Decision (ROD) for the site, prepared in December 1993 (NYSDEC 1993), selected excavation and off-site disposal of soil and sediment as the site remedy. Design of the remedy began in April 1994 and the project was bid in the fall of 1995. During design, it was determined that soil contamination in the parking lot "corridor" extended much deeper than expected (more than 20 feet). It was determined that removing all of the soil was not feasible and the design would limit the soil removal to 4 feet.

A Consent Decree with NTC was entered with the State of New York (State of New York 1996) that settled cost recovery issues for the NTC site. The decree requires NTC to make 18 annual payments of $300,000 to NYSDEC for a total of $5,400,000.

Remedial construction began in April 1996 and was completed in December 1997 at a cost of $5.5 million. After remediation was substantially completed, oil-drying equipment in the plant malfunctioned, then sprayed transformer oil onto the roof and soil along the west side of the building. Although NTC states it did not handle transformer oils containing polychlorinated biphenyls (PCBs) over 50 parts per million (ppm), the soil was found to contain PCBs at concentrations of up to 460 ppm. NTC removed contaminated soil and replaced roofing materials at its own expense. Roof drains were also flushed.

After the roof contamination was discovered, a storm water treatment system was installed at the head of the remediated drainage ditches at the site. Sampling of sediments in downstream ditches indicated that ditches near the site became re-

contaminated. Sampling of the roof and drainage piping was completed to determine the effectiveness of the replacement roofing. The results showed low-level continuing releases of PCBs. Additional work was completed by the NYSDEC to flush and reroute drain lines.

In addition, an Emergency Water Treatment System (EWTS) was installed by NYSDEC at the head of the site drainage system. The system was designed to remove PCBs from the "first-flush" of storm water from the roof and parking lot at the site. The collected storm water is treated by filtration through particle filters and adsorption by two granular activated carbon (GAC) vessels. Treated effluent is then discharged downstream of the collection point.

In 1999, additional field investigations were initiated to determine the source, or sources, of the continuing releases of PCBs to surface water and to determine the extent of recontamination of ditches both on and off site (EEEPC 2000). The data generated indicated that on-site storm sewers may be acting as a preferential pathway for migration of residual contamination at the site (mainly from under the active building).

As a result of these investigation activities, NYSDEC initiated an Interim Remedial Measure (IRM) to reduce the potential for future migration of contamination through preferential pathways, mitigate risks associated with surficial PCB contamination in drainage ditches, and minimize the potential for future contaminant migration into the storm sewer system. The IRM was performed in 2004 and generally included:

- Abandoning the existing subsurface storm sewer system in the south parking lot and driveway and installing low permeability subsurface dams along this former system;
- Providing new subsurface storm water piping in the south parking lot and driveway and connecting the new piping to existing roof leaders;
- Pressure grouting under a portion of the loading dock slab and restoring the slab to original condition;
- Installing an 18-inch diameter profile wall pipe and low permeability subsurface dams in the north/south ditch; and
- Installing concrete lining (shotcrete) and low permeability subsurface dams in the east/west (E/W) ditch.

The IRM was substantially completed in August 2004. Site management, including environmental sampling, has been conducted by NYSDEC personnel since the completion of the IRM. Sampling events continue to detect PCBs in the storm water and sediments in the E/W ditch.

2.2 Scope of Work

The scope of work (SOW) for this WA includes:

- Long-term site monitoring and reporting in accordance with the O&M Manual for the site (EEEPC 2005);
- Operation, maintenance, and upgrades to the EWTS;
- Decommissioning of two groundwater monitoring wells (MW-OUT and NTC-11) and one piezometer at the cemetery fenceline, as selected by NYSDEC, and maintenance and rehabilitation of other monitoring wells;
- Additional storm water sampling to identify the source of continued PCB loading to the E/W ditch; and
- A feasibility study to evaluate long-term options to reduce PCB loading to the E/W ditch and/or the retention pond.

As part of this WA, EEEPC has obtained additional certificates of insurance, which name NTC and CSX Transportation, Inc. (CSX) as additional insured in order to fulfill the requirements of the Consent Decree between NTC and the State of New York (State of New York 1996) and the Surface Water Drainage Facility Agreement between CSX and NYSDEC (NYSDEC 2004). A copy of this certificate of insurance is provided in Appendix A.

3 Major Tasks

This WA includes five separate major tasks:

- Task 1 - Work Plan;
- Task 2 - Long-Term Monitoring and Reporting;
- Task 3 - Operation and Maintenance;
- Task 4 - Surface Water/Storm Water Study; and
- Task 5 - Feasibility Study (FS)

These tasks are described in more detail below.

3.1 Work Plan

EEEPC's Contract Manager and Project Manager (PM) have reviewed components of the work assignment and the required scope. A level of effort (LOE) estimate (hours and staffing) and associated costs for completing all tasks and associated deliverables have been submitted for negotiation with this work plan (see Section 6). The purpose of this work plan is to:

1. Provide detail to the scope of work, where necessary, to support EEEPC's LOE estimates in the project budget; and

2. Present a work plan that includes, at a minimum, a Statement of Work, including a description and purpose of the major tasks and subtasks, a detailed schedule with milestones and deliverables, a staffing plan, an MBE/WBE and Equal Employment Opportunity (EEO) Utilization Plan, and a proposed list of subcontractors.

It is EEEPC's understanding that when an acceptable work plan is produced, a Notice to Proceed will be issued to execute this WA. Furthermore, EEEPC understands that it is the goal of NYSDEC to formally approve the work plan within 4 weeks of issuing the WA.

3.2 Long-Term Monitoring and Reporting

EEEPC will perform the routine sampling and inspections at the NTC site, as required in the O&M Manual for the site. All analyses for PCBs will utilize United States Environmental Protection Agency (EPA) method 8082 to low detection limits. Routine sampling includes:

- Semi-annual sampling and analysis of nine groundwater wells;
- Semi-annual sampling and analysis of 18-inch high-density polyethylene (HDPE) pipe outflow to the E/W ditch;
- Semi-annual sampling and analysis of four upstream catch basins (contingent upon results of 18-inch HDPE pipe outflow);
- Annual sampling and analysis of catch basin sediments;
- Annual sampling and analysis of E/W ditch sediments; and
- Annual sampling and analysis of retention pond inflow and outflow.

Sampling of most routine monitoring points is included as part of the Surface Water/Storm Water Study (Task 4) described below. Therefore, routine sampling under this task during year 1 shall consist of catch basin sediments and E/W ditch sediments. Sampling of all routine monitoring points will be performed for years 2 and 3 of this WA. A summary of all sampling required for this WA is given in Table 3-1.

Routine site inspections will be conducted quarterly and include items outlined in section 4.3.1 of the NTC site O&M Manual, including:

- Monitoring wells;
- On-site drainage control mechanisms (catch basins, surface water run-on);
- E/W ditch (including shotcrete);
- Presence of any stressed vegetation, especially around the main NTC building, tank farm, ditches and cemetery areas adjacent to ditches and the main NTC building;
- Review of the NTC driveway, parking lot, tank farm and area around the main NTC building for oily sheens, stained soils and/or pavement, or other signs of oily release; and
- Groundwater level monitoring.

Two of the four annual quarterly inspections will be performed at the same time as the semi-annual sampling events.

EEEPC will provide reports summarizing inspections, observations, and analytical data within 5 days of inspection or maintenance activities and within 45 days of sampling activities, in accordance with section 6 of the NTC site O&M Manual.

3.3 Operation and Maintenance

EEEPC will provide routine operation and maintenance of the EWTS in accordance with the O&M Manual for the site. It is EEEPC's understanding that the EWTS is not currently functional. Therefore, EEEPC will perform an initial site visit to evaluate the current condition of the EWTS. EEEPC will also attempt to start and operate the system. Items to be inspected and conditions to be noted during the initial system evaluation will include:

- Condition of wooden shed structure and appurtenances;
- Condition of electrical system and appurtenances;
- Condition of treatment system and appurtenances (i.e., GAC drums, filter housings, pumps, tanks, etc.); and
- Capacity and suitability of treatment system components to effectively treat storm water for PCBs in both the short-term and the long-term.

EEEPC will coordinate the initial EWTS evaluation with NYSDEC Region 9 personnel, so that the recent operational history and NYSDEC concerns are addressed.

Based on the evaluation, EEEPC will provide recommendations for EWTS upgrades to make the system operate more effectively for NYSDEC review. Estimated costs of upgrades will be provided. Once upgrades are selected and approved by NYSDEC, EEEPC will develop a scope of work for the upgrades for subcontractors to bid on. EWTS upgrades will be installed no sooner than the spring months of 2007.

The upgraded EWTS will be operated for approximately nine months of the year to avoid damage caused by freezing temperatures. Routine EWTS O&M inspections will be conducted weekly during the nine-month operating period, as recommended in section 4.1.2 of the site O&M Manual, or less frequently as conditions warrant or as directed by NYSDEC, and will include:

- Inspecting and changing bag filters, as necessary;
- Inspecting pumps, tanks, and note operation; and

- Noting operating pressures at GAC vessels.

In addition to routine inspections, performance sampling of the EWTS influent and effluent will be conducted monthly. A summary of all sampling required for this WA is given in Table 3-1.

EEEPC will provide copies of EWTS inspection reports summarizing inspections, observations, and analytical data within 5 days of inspection or maintenance activities and within 45 days of sampling activities, in accordance with section 6 of the NTC site O&M plan.

In addition to routine EWTS operation and upgrades, EEEPC will decommission monitoring wells MW-OUT, NTC-11, and the piezometer at the cemetery fenceline, as selected by NYSDEC, and maintain and rehabilitate other wells in the monitoring network. Monitoring wells will be decommissioned in accordance with NYSDEC Groundwater Monitoring Well Decommissioning Procedures (NYSDEC 1996). Monitoring well maintenance and rehabilitation will include:

- Replacing j-plugs, rubber seals, and flush-mount bolts, as necessary; and
- Replacing flush-mount well covers on NTC-9S and NTC-9D in the adjacent cemetery.

3.4 Surface Water/Storm Water Study

The purpose of the surface water study is to broaden the search to determine the source(s) of PCB loading to the E/W ditch and ultimately the retention pond. NYSDEC and EEEPC representatives met at the NTC site on October 18, 2006, in order to evaluate the site and surrounding properties and develop an initial scope of work for this study.

As part of this study, EEEPC personnel will meet with NTC plant manager Bob Fishlock to review NTC processes and operations in order to identify potential migration or releases of PCBs to the environment. The surface water study will require a one year effort beginning in 2007 and shall consist of 4 sampling events, with 16 to 20 samples collected during each event. The 16 minimum required storm water sampling points for this study shall include:

- 18" outfall from NTC to E/W ditch;
- Four upstream catch basins on NTC site;
- One sample from PVC outfall to surface from NTC front parking lot to east driveway;
- One sample from upstream edge of shotcrete in E/W ditch;

- One sample from E/W ditch at upstream edge of NTC's eastern wooded lot;
- One sample from "head" of E/W ditch near RR access drive/moving company lot to the east of the NTC property;
- One sample from electrical substation drainage (located to the east of the NTC property);
- One sample from each of 2 known "point" drainage discharges (as opposed to overland flow to ditch) from adjacent cemetery and immediately upstream to assess potential impact from "point source" (4 total);
- One sample from the retention basin inlet; and
- One sample from the retention basin outlet.

Efforts will be made to collect the storm water samples from the NTC site during the "first-flush" (within the first hour of the storm event) after a dry period. Off-site samples will be collected during or shortly after the storm event.

In addition to the water sampling above, EEEPC proposes to collect PCB wipe samples at two to three selected "seeps" with staining observed in shotcrete during dry weather.

Data from each surface water study sampling event will be forwarded to NYSDEC and summarized in a letter report. Additional sampling points and media (i.e., wipe samples, soils, and/or sediments) may be authorized by NYSDEC, based on analytical data obtained during the surface water study. A summary of all sampling required for this WA is given in Table 3-1.

It is EEEPC's understanding that NYSDEC may use the data from the surface water study for comparison against the remedial goals set forth in the ROD and may be used to justify a future IRM or other remedial action, if deemed necessary.

3.5 Feasibility Study

After the storm water study has been completed, EEEPC will prepare a focused FS of alternatives to reduce or control PCB loading to the retention pond. Initially, a range of several alternatives will be proposed by EEEPC, and three to four alternatives will be selected by NYSDEC in conjunction with EEEPC for analysis in the FS.

This task includes the development of a focused FS to meet the goal of reducing or controlling PCB loading to the retention pond, in order to protect of human health and the environment. The FS will be conducted, in general, based upon guidance by NYSDEC and EPA for FS work (NYSDEC Final TAGM #4030, *Se-*

lection of Remedial Actions at Inactive Hazardous Waste Sites, and EPA, *Guidance for Conducting Remedial Investigations and Feasibility Studies* under the Comprehensive Environmental Response, Compensation and Liability Act [CERCLA]). In general, an FS evaluates alternative approaches to meeting cleanup objectives.

Incorporating the guidance provided by TAGM #4030, the process to be followed for the FS will generally be:

- Development of remedial action objectives;
- Development of remedial alternatives and technologies;
- Screening of alternatives;
- Detailed analysis of remedial alternatives; and
- Selection of remedy.

Each component is discussed below.

3.5.1 Development of Remedial Objectives

For the purposes of this WA, the remedial objectives are known. The area of focus will be the storm water that flows into the retention pond; the cleanup goal for water within the drainage ditches and retention pond is 0.001 µg/L PCBs, as stated in Section V of the December 1993 ROD for the NTC site.

3.5.2 Development of Remedial Alternatives and Technologies

Development of remedial alternatives involves identifying technologies appropriate for treating or removing PCBs in storm water to the retention pond and assembling those technologies into alternatives. Treatment, removal, and containment technologies will be identified. It is assumed that approximately five alternatives will be developed.

3.5.3 Screening of Alternatives

The alternatives developed in Section 3.5.2 will be screened against the criteria of effectiveness and implementability to reduce the number of alternatives retained for detailed analysis. Including the no-action alternative, EEEPC assumes that three alternatives will be retained. This will also identify whether a treatability study or additional field investigations are required to support the detailed analysis of alternatives.

3.5.4 Detailed Analysis of Remedial Alternatives

In this section of the FS, each alternative will be fully described (including development of capital, O&M, and present-worth costs), and then evaluated both indi-

vidually and comparatively. The individual evaluations will analyze each alternative against the following seven criteria:

- Short-term impacts and effectiveness;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, and volume;
- Implementability;
- Cost;
- Compliance with cleanup goals; and
- Overall protection of human health and the environment.

Following individual analyses, the alternatives will be comparatively reviewed and evaluated.

3.5.5 Selection of Remedy

Based on the evaluation in the detailed analysis, EEEPC will propose a remedy that is protective of human health and the environment, cost-effective, and meets cleanup goals to the extent practicable. The selection of a remedy will be made considering a preference for alternatives that include, as a principal element, treatment and/or removal that significantly and permanently reduces volume, toxicity, and/or mobility of contaminants. A conceptual design of the selected remedy will also be presented.

Table 3-1 NTC O&M Sampling and Analytical Summary

Matrix	Location	Task No.	Estimated Quantity	Frequency	Total Quantity	Analyses
Water	Monitoring wells & 18" HDPE outflow	2	10	Semi-annually for 3 years	60	PCBs, 8082 Chlorobenzenes, 8270
Water	Upstream CBs	2	4	Semi-annually for 2 years	16	PCBs, 8082
Water	Retention pond influent & effluent	2	2	Annually for 2 years	4	PCBs, 8082
Sediments	Catch basins	2	4	Annually for 3 years	12	PCBs, 8082
Sediments	E/W ditch	2	1	Annually for 3 years	3	PCBs, 8082
Solids	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082

Table 3-1 NTC O&M Sampling and Analytical Summary

Matrix	Location	Task No.	Estimated Quantity	Frequency	Total Quantity	Analyses
Liquid	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082
Water	EWTS influent & effluent	3	2	Monthly for 9 mos/year for 3 years	54	PCBs, 8082
Water	Storm water study	4	20 (estimated for budgeting purposes)	Quarterly for 1 year	80	PCBs, 8082
Wipe Samples	Shotcrete seeps	4	3 (estimated for budgeting purposes)	Quarterly for 1 year	12	PCBs, 8082
				Total	**227**	

All samples will be collected using dedicated equipment to eliminate the requirement of field quality control samples.

4 Progress Schedule

The proposed schedule below has been developed using target dates presented in the WA and discussions with the Department's PM.

Table 4-1 Tentative Project Schedule

Work Assignment Element	Date
Notice-to-Proceed	December 2006
Task 2: Long-term monitoring and reporting	January 2008 - December 2009
Task 3: Initial EWTS visit and evaluation	March 2007
Task 3: Selection and implementation of EWTS upgrades	April 2007
Task 4: Surface Water/Storm Water Study	2007
Task 5: Submit Draft Feasibility Study	March 2008
Task 5: Submit Final Feasibility Study	April 2008

5 Subcontracting Plan

O&M WAs typically present many opportunities for subcontracting. EEEPC has examined the SOW for this project and determined that the best opportunities for subcontractors would be for routine EWTS O&M services, installation of EWTS upgrades, and analytical services.

Subcontractors were selected based on competitive bidding and/or their status as MBE/WBE firms (see Section 7). Subcontractors to be identified in the future shall be selected in the same manner.

A SOW and bids received for analytical services are included as Appendix B.

6 Cost Assumptions and Budget

EEEPC's proposed budget is $283,461. This budget is predicated on the following assumptions:

General

- The Department will coordinate any additional access agreements required with NTC, St. Adalbert's Cemetery, the railway company, and the Town of Cheektowaga.
- EEEPC will submit one hard copy and one electronic copy to the NYSDEC PM for all deliverables.
- No disposal will be required other than disposal of miscellaneous personal protective equipment and investigation-derived waste.
- No construction trades (e.g., laborers, surveyors, drillers, etc.) will be working on public lands as part of this WA. However, subcontracted laborers and drillers will be working on private property. As such, prevailing wage rates do not apply to any tasks required for this WA, as determined by NYSDEC.

Task 1 - Work Plan

- The work plan and FS will require submission of draft and final versions only.

Task 2 - Long-Term Monitoring and Reporting

- Analytical results from the 18-inch HDPE outflow will require additional sampling in the four upstream catch basins during all semi-annual sampling events for a total of 16 additional routine samples over the course of the two-year task duration.
- Nine monitoring wells will be sampled semi-annually.
- Retention pond sediment sampling is scheduled to be performed every five years in the NTC O&M Manual and is not included as part of this WA.

- All groundwater purged from monitoring wells will be treated in the EWTS unless non-aqueous phase liquid (NAPL) is observed in purge water. The quantity of water containing NAPL is unable to be estimated at this time.

Task 3 - Operation and Maintenance

- A lump sum of $40,000 has been included for EWTS upgrades. The SOW for the upgrades shall be determined after an initial inspection by EEEPC and as approved by NYSDEC. Installation of system upgrades will be subcontracted.

- The SOW for EWTS O&M shall be developed after EWTS upgrades have been agreed to by NYSDEC. An annual budget of $10,000 has been included for weekly EWTS inspections, which will be subcontracted.

- A lump sum of $5,000 has been included for replacement of EWTS expendables over the course of the three-year task duration.

- The EWTS will be operated for approximately nine months out of every year for 3 years and will not be operated during winter months.

- EWTS influent and effluent will be sampled monthly for nine months out of every year for three years.

- A lump sum of $5,000 has been allocated to decommission the three selected monitoring wells and rehabilitate other monitoring wells.

- No costs have been included to install new monitoring wells or replace decommissioned monitoring wells.

- An annual disposal budget of $1,000 for three years is included for ongoing disposal of personal protective equipment, investigation-derived waste, EWTS consumables and other miscellaneous waste per year at a permitted non-hazardous waste facility. This disposal will be part of the SOW for the EWTS O&M subcontractor.

Task 4 - Surface Water/Storm Water Study

- The surface water study will consist of four sampling events over the course of one year.

- Each sampling event will consist of a one-day effort for two people to collect samples.

- Each sampling event will consist of analysis of up to 25 water samples for a total of 100 samples.

- Collection and analysis of 12 PCB wipe samples have been included as part of this budget.

- No "false alarm" or aborted storm water sampling events are included.

Task 5 - Feasibility Study

- Detailed analysis of alternatives in the FS will be limited to three to four alternatives.

- The work plan and FS will require submission of draft and final versions only.

The Schedule 2.11 forms and the MBE/WBE utilization plan are included in the following pages of this section.

Section 6

Schedule 2.11(a) Summary of Work Assignment Price

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

1.	Direct Salary Costs (Schedule 2.11(b))			$54,654
2.	Indirect Costs			$105,483
3.	Direct Non-Salary costs (Schedules 2.11(c) and (d) and (d-1))			$8,700
	Subcontract Costs			
	Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.11(e))			
	Name of Subcontractor	Services to be Performed	Subcontract Price	
	A TBD	Routine EWTS O&M	30,000	
	B TBD	EWTS upgrades	$ 40,000	
	C TBD	Decommissioning and rehab GW MWs	$ 5,000	
	D			
4.	Total Cost-Plus-Fixed-Fee Subcontracts		$75,000	
	Unit Price Subcontracts (Schedule 2.11(f))			
	Name of Subcontractor	Services to be Performed	Subcontract Price	
	A Mitkem Corporation	Analytical	16,195	
	B Kemron Environmental Services, Inc.	Analytical	9,782	
	C TBD	Disposal	$ 3,000	
	D			
5.	Total Unit Price Subcontracts		28,977	
6.	Subcontract Management Fee	(4% on Unit Price Subcontract > $10,000)	1,039	
7.	Total Subcontract Costs (Lines 4+5+6)			105,016
8.	Fixed Fee	(6.0% on Labor + Indirect)		9,608
9.	Total Work Assignment Price (Lines 1+2+3+7+8)			283,461

NOTE: Rates are in accordance with Section 2.10 of the State Superfund Standby Contract #D004442 (DC)

E gin :/C .tra # 00 12 ate rep. ed Nov nbe 17, 06
Project Name Niagara Transformer Corp. O&M
Work Assignment No. 12

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

Labor Classification	*IX*	*VIII*	*VII*	*VI*	*V*	*IV*	*III*	*II*	*I*	*Total No. of Direct Labor Hrs.*
Task 1			1			3				4
Task 2			3			15				18
Task 3			3			15				18
Task 4			3			15				18
Task 5			3			15				18
Total Hours			13			63				76

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

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

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

Section 6

Schedule 2.11(b) Direct Labor Hours Budgeted

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

DIRECT LABOR HOURS BUDGETED - BY NSPE GRADE

Rates for Year Ending January 31, 2007

NSPE Grade	IX	VIII	VII	VI	V	IV	III	II	I	Total	Labor	Overhead		Fee	
Rate/Hour	$62.09	$45.42	$39.58	$36.15	$30.16	$25.66	$23.21	$18.89	$14.37	Hours	Cost	193%	SUBTOTAL	6.0%	TOTAL
TASK DESCRIPTION															
Task 1:	0	4	12	0	0	54	0	12	0	82	$2,269	$4,379	$6,648	$399	$7,047
Task 2:	12	24	60	0	0	140	384	80	40	740	18,804	36,292	55,096	3,306	58,402
Task 3:	0	10	40	0	40	160	0	188	0	438	10,901	21,039	31,940	1,916	33,856
Task 4:	8	48	64	100	80	78	94	40	0	512	16,177	31,222	47,399	2,844	50,243
Task 5:	4	16	40	16	40	40	0	60	0	216	6,503	12,551	19,054	1,143	20,197
Task 6:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Task 7:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Est. Direct Labor Hours	24	102	216	116	160	472	478	380	40	1,988					
Est. Direct Labor Cost	$1,490	$4,633	$8,550	$4,193	$4,825	$12,113	$11,096	$7,178	$575	**TOTALS**	$54,654	$105,483	$160,137	$9,608	$169,745

Section 6

Schedule 2.11(c) Direct Non-Salary Costs

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

ITEM	Reimbursement Rate	Unit	Estimated No. of Units		Total Estimated Costs
A. IN-HOUSE COSTS*					
Communication Costs	$ 5.00	Call	170		850.00
Reproduction-Color Copies	$ 0.40	Page	130		52.00
Blueprinting	$ 1.75	Page	-		-
Protective Clothing: Level D	$ 10.00	Day	83		830.00
Protective Clothing: Level C	$ 35.00	Day	-		-
Protective Clothing: Level B	$ 110.00	Day	-		-
Shipping: Lab Samples	$ 68.00	50lbs.	-		-
Shipping: Equipment	$ 79.00	75lbs.	-		-
Shipping: Other Fedex Priority	$ 22.00	5 lbs.	6		132.00
Postage (FED-EX PRIORITY)	$ 17.00	2 lbs.	17		289.00
Purchased Items - Incidentals		Lump Sum			-
Outside Equipment Rental	(see Form 2.11 d)	Lump Sum			-
Equipment Purchase Under Contract	(See Form 2.11 d-1)	Lump Sum			-
Miscellaneous Field Supplies/ODCs		Lump Sum			5,600.00
Miscellaneous Field Supplies/ODCs		Lump Sum			-
Low Value Equipment	$ 0.80	per Field Hr	572		457.60
				Subtotal	8,210.60
B. MISCELLANEOUS					
1. TRAVEL					
Airfare: Buffalo/Albany		RT	-		-
Per Diem: Albany		Day	-		-
Per Diem: Rochester		Day	-		-
Lodging: Albany		Night	-		-
Local Tax on Lodging		Night	-		-
Auto Rental		Day	-		-
Mini Van Rental		Day	-		-
Local Mileage	$ 0.445	Mile	1,100		489.50
Parking		Day	-		-
Gasoline/Tolls		RT	-		-
				Subtotal	489.50
TOTAL DIRECT NON-SALARY COSTS					**$ 8,700.10**

Schedule 2.11 (e) **Cost-Plus-Fixed Fee Subcontractors**
Work Assignment #: D004442-12 Project Name: Niagara Transformer Corp. O&M

I.	NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
	Scope of work not clearly defined as of yet		
	Allowances established based on discussion between EE & DEC		
	Cost assumptions identified in proposal workplan		
		Routine EWTS O&M	$30,000
		EWTS upgrades	$40,000
		Decommissioning and rehab GW MWs	$5,000
		TOTAL	$75,000

Schedule 2.11(f) - 1 **Unit Price Subcontractors**

Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

SUBCONTRACTOR	Services to be Performed	Subcontract Price ($)
Mitkem Corporation (MBE)	Analytical Laboratory	$16,195
Kemron Environmental Services, Inc. (MBE)	Analytical Laboratory	$9,782
tbd	Disposal	$3,000

SUBTOTAL SUBCONTRACT		$28,977
SUBCONTRACT MANAGEMENT FEE	4.0%	$1,039
TOTAL		**$30,016**

Schedule 2.11(f) **Unit Price Subcontractors**

Work Assignment #: D004442-12

Project Name: Niagara Transformer Corp. O&M

Name of Subcontractor	Sevices to be Performed		Subcontract Price ($)	Management Fee ($)
				$0.00
				$0.00
				$0.00

Item		Maximum Reimbursement	Estimated	Turn-Around	Total Estimated
	Analysis/Method	Rate (Specify Unit)	Number of	Mark-up	Cost
		($)	Units	($)	($)
Mitkem Corporation	water, PCB 8082	$65.00	80	$0	$5,200
	water, chlorobenzenes	$150.00	60	$0	$9,000
	sediment, PCB 8082	$95.00	15	$0	$1,425
	waste, PCB 8082	$95.00	6	$0	$570
Kemron Environmental Services, Inc.	water, PCB 8082	$67.00	134	$0	$8,978
	wipe samples, PCB 8082	$67.00	12	$0	$804
				Total Analytical Cost:	**$25,977**

SUBTOTAL SUBCONTRACT		**$25,977**
SUBCONTRACT MANAGEMENT FEE	4.00%	**$1,039**
TOTAL		**$27,016**

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

SUMMARY SCHEDULE

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							$54,654	
2. Indirect Costs (193%)							$105,483	
3. Subtotal Direct Salary & Indirect Costs							$160,137	
4. Travel							$490	
5. Other Non-Salary Costs							$8,211	
6. Subtotal Direct Non-Salary Costs							$8,700	
7a. Subcontractors							$103,977	
7b. Subcontract Management Fee							$1,039	
8. Total Work Assignment Cost							$273,853	
9. Fixed Fee							$9,608	
10. Total Work Assignment Price							$283,461	

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Task 1:

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							$2,269	
2. Indirect Costs (193%)							$4,379	
3. Subtotal Direct Salary & Indirect Costs							$6,648	
4. Travel							$0	
5. Other Non-Salary Costs							$66	
6. Subtotal Direct Non-Salary Costs							$66	
7a. Subcontractors							$0	
7b. Subcontract Management Fee							$0	
8. Total Work Assignment Cost							$6,714	
9. Fixed Fee							$399	
10. Total Work Assignment Price							$7,113	

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Task 2:

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							$18,804	
2. Indirect Costs (193%)							$36,292	
3. Subtotal Direct Salary & Indirect Costs							$55,096	
4. Travel							$214	
5. Other Non-Salary Costs							$1,761	
6. Subtotal Direct Non-Salary Costs							$1,975	
7a. Subcontractors							$16,195	
7b. Subcontract Management Fee							$648	
8. Total Work Assignment Cost							$73,914	
9. Fixed Fee							$3,306	
10. Total Work Assignment Price							$77,219	

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Task 3:

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							$10,901	
2. Indirect Costs (193%)							$21,039	
3. Subtotal Direct Salary & Indirect Costs							$31,940	
4. Travel							$240	
5. Other Non-Salary Costs							$5,699	
6. Subtotal Direct Non-Salary Costs							$5,940	
7a. Subcontractors							$81,618	
7b. Subcontract Management Fee							$145	
8. Total Work Assignment Cost							$119,642	
9. Fixed Fee							$1,916	
10. Total Work Assignment Price							$121,559	

Section 7

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

Page _____ of _____

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Date Prepared _____
Billing Period _____
Invoice No. _____

Task 4:

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							$16,177	
2. Indirect Costs (193%)							$31,222	
3. Subtotal Direct Salary & Indirect Costs							$47,399	
4. Travel							$36	
5. Other Non-Salary Costs							$484	
6. Subtotal Direct Non-Salary Costs							$519	
7a. Subcontractors							$6,164	
7b. Subcontract Management Fee							$247	
8. Total Work Assignment Cost							$54,329	
9. Fixed Fee							$2,844	
10. Total Work Assignment Price							$57,173	

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Task 5:

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							$6,503	
2. Indirect Costs (193%)							$12,551	
3. Subtotal Direct Salary & Indirect Costs							$19,054	
4. Travel							$0	
5. Other Non-Salary Costs							$200	
6. Subtotal Direct Non-Salary Costs							$200	
7a. Subcontractors							$0	
7b. Subcontract Management Fee							$0	
8. Total Work Assignment Cost							$19,254	
9. Fixed Fee							$1,143	
10. Total Work Assignment Price							$20,397	

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Task 6:

Expenditure Category	A Costs Claimed This Period	B Paid to Date	C Total Disallowed to Date	D Total Costs Incurred to Date (A+B+C)	E Estimated Costs to Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/Over (G-F)
1. Direct Salary Costs							$0	
2. Indirect Costs (193%)							$0	
3. Subtotal Direct Salary & Indirect Costs							$0	
4. Travel							$0	
5. Other Non-Salary Costs							$0	
6. Subtotal Direct Non-Salary Costs							$0	
7a. Subcontractors							$0	
7b. Subcontract Management Fee							$0	
8. Total Work Assignment Cost							$0	
9. Fixed Fee							$0	
10. Total Work Assignment Price							$0	

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Task 7:

Expenditure Category	A Costs Claimed This Period	B Paid to Date	C Total Disallowed to Date	D Total Costs Incurred to Date (A+B+C)	E Estimated Costs to Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/Over (G-F)
1. Direct Salary Costs							$0	
2. Indirect Costs (193%)							$0	
3. Subtotal Direct Salary & Indirect Costs							$0	
4. Travel							$0	
5. Other Non-Salary Costs							$0	
6. Subtotal Direct Non-Salary Costs							$0	
7a. Subcontractors							$0	
7b. Subcontract Management Fee							$0	
8. Total Work Assignment Cost							$0	
9. Fixed Fee							$0	
10. Total Work Assignment Price							$0	

Section 7

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

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

0

Expenditure Category	A Costs Claimed This Period	B Paid to Date	C Total Disallowed to Date	D Total Costs Incurred to Date (A+B+C)	E Estimated Costs to Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/Over (G-F)
1. Direct Salary Costs							$0	
2. Indirect Costs (193%)							$0	
3. Subtotal Direct Salary & Indirect Costs							$0	
4. Travel							$0	
5. Other Non-Salary Costs							$0	
6. Subtotal Direct Non-Salary Costs							$0	
7a. Subcontractors							$0	
7b. Subcontract Management Fee							$0	
8. Total Work Assignment Cost							$0	
9. Fixed Fee							$0	
10. Total Work Assignment Price							$0	

Schedule 2.11(g) - Supplemental

Cost Control Report for Subcontracts

Engineer: Ecology and Environment Engineering, P.C.
Contract No. D004442
Project Name Niagara Transformer Corp. O & M
Work Assignment No. 12

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

Subcontract Name	*A Subcontract Costs Claimed this Application Inc. Resubmittals*	*B Subcontract Costs Approved for Payment on Previous Applications*	*C Total Subcontract Costs to Date (A plus B)*	*D Subcontract Approved Budget*	*E Management Fee Budget*	*F Management Fee Paid*	*G Total Costs to Date (C plus F)*
1.Mitkem Corporation				$16,195			
2. Kemron Environmental Services, Inc.				$9,782			
3.							
4.							
5.							
6. **TOTALS**				$25,977.00			

Project Manager _____ Date _____

NOTES:

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

Section 7

Schedule 2.11(h) Summary of Labor Hours

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

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
State Superfund Standby Contract #D004442 (DC)
Work Assignment #: D004442-12
Project Name: Niagara Transformer Corp. O&M

Rates for Year Ending January 31, 2007

NSPE Grade	IX		VIII		VII		VI		V		IV		III		II		I		TOTAL
Rate/Hour	$62.09		$45.42		$39.58		$36.15		$30.16		$25.66		$23.21		$18.89		$14.37		HOURS
TASK	EXP./	EST.	EXP./	EST.	EXP./	EST.	EXP./	EST.	EXP./	EST.	EXP./	EST.	EXP./	EST.	EXP./	EST.	EXP./	EST.	EXP./ EST.
Task 1:	0	0	0	4	0	12	0	0	0	0	0	54	0	0	0	12	0	0	0 82
Task 2:	0	12	0	24	0	60	0	0	0	0	0	140	0	384	0	80	0	40	0 740
Task 3:	0	0	0	10	0	40	0	0	0	40	0	160	0	0	0	188	0	0	0 438
Task 4:	0	8	0	48	0	64	0	100	0	80	0	78	0	94	0	40	0	0	0 512
Task 5:	0	4	0	16	0	40	0	16	0	40	0	40	0	0	0	60	0	0	0 216
Task 6:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
Task 7:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
TOTAL HOURS		24		102		216		116		160		472		478		380		40	1,988
TOTAL COST		$1,490		$4,633		$8,550		$4,193		$4,825		$12,113		$11,096		$7,178		$575	$54,653

7 Staffing Plan

EEEPC proposes the following primary staffing plan for completion of this WA.

Contract Manager: D. Albers, P.E.
Project Manager: A. Murphy, P.E.
Field Engineers: J. Gac and P. Kuchikulla

Task 1: Work Plan
D. Albers, P.E. – Senior Engineer Review
A. Murphy, P.E. – Preparation

Task 2: Long-Term Monitoring and Reporting
D. Albers, P.E. – Senior Engineer Review
A. Murphy, P.E. – Management
J. Gac - Field Engineer
P. Kuchikulla - Field Engineer

Task 3: Operation and Maintenance
D. Albers, P.E. – Senior Engineer Review
A. Murphy, P.E. – Management

Task 4: Surface Water/Storm Water Study
D. Albers, P.E. – Senior Engineer Review
A. Murphy, P.E. – Management
J. Gac - Field Engineer
P. Kuchikulla - Field Engineer

Task 5: Feasibility Study
D. Albers, P.E. – Senior Engineer Review
A. Murphy, P.E. – Management, Preparation

8 MBE/WBE Utilization Plan

Introduction/Objective

EEEPC fully subscribes to the New York State policy that MBE/WBE firms be afforded the maximum opportunity to participate in contracts offered by New York State agencies. As a prime contractor to NYSDEC, EEEPC is committed to full compliance with Executive Law Article 15-A and pertinent federal regulations to further MBE/WBE goals and to achieve significant participation of MBE/WBE firms to a level commensurate with their capabilities and responsibilities.

In this section, EEEPC's MBE/WBE Utilization Plan is described, including goals for this WA, and details regarding the services, firms, and portion of work scheduled to be provided by MBE/WBE firms.

Contract Goals

The goals established for this WA are summarized in Table 8-1 below.

Table 8-1 MBE/WBE Contract Goals

	Percentage	Dollar Amount
Total Percentage of MBE/WBE Work	**20**	**$56,692**
Total percentage of MBE work goal	15	$42,519
Total percentage of WBE work goal	5	$14,173
Total Project Amount		**$283,461**

EEEPC maintains an up-to-date Affirmative Action Plan and MBE/WBE hiring plan to ensure equal opportunity for all job applicants, employees, and subcontractors. For the New York State Superfund standby contract, EEEPC will use the following procedures and resources to meet established MBE/WBE goals:

- EEEPC's PM will consult with the EEEPC MBE/WBE subcontracting coordinator to identify and evaluate work that requires subcontractor services. The subcontracting opportunities will then be divided into discrete tasks that may be completed by MBE or WBE firms.

- Following identification of discrete tasks, the MBE/WBE subcontracting coordinator will review the New York State Directory of Certified Minority- and Women-Owned Business Enterprises and EEEPC's MBE/WBE database.

- EEEPC has developed a database to facilitate the acquisition of qualified MBE and WBE firms for work on various state and federal government contracts. This database consists of the following:

  - MBE and WBE firms listed in the current New York State Department of Commerce Directory of Minority- and Women-Owned Businesses, entered and cross-referenced by nine categories of services most frequently used by EEEPC. The categories are as follows:

Environmental Consulting	Engineering
Drilling/Geophysics	Laboratories
Community Relations	Construction Management
Supplier/Equipment	Miscellaneous Services
General Contractors	

    This listing and cross-referencing facilitates EEEPC's rapid identification of potentially qualified MBE/WBE firms for use in various projects.

  - Firms identified in the database as performing environmental consulting, engineering/geophysical, or drilling services were sent questionnaires requesting detailed information regarding the background of each firm. Any firm responding to this first-tier questionnaire was requested to submit additional information in a supplemental questionnaire that provided EEEPC with adequate information in a standardized format enabling comparison and selection of potential firms using methodical and consistent evaluation criteria.

- Following identification of qualified, potential MBE/WBE contractors, the PM will solicit firms for bids as delineated below under Criteria for Selection.

Subcontracted Services

Typically, EEEPC has found that opportunities exist for MBE/WBEs in the following work categories:

- Site security fencing;

- Protective services;

- Drilling and monitoring well installation;

- Soil borings;

- Physical soil tests;
- Site and topographical surveys;
- Title searches;
- Engineering services;
- Structural engineering;
- Geophysical engineering;
- Geophysical surveys;
- Photographic services;
- Heavy equipment;
- Laboratory data validation; and
- Photocopying report reproduction services.

Criteria for Selection

Criteria described below are used to obtain and evaluate bids for other non-professional services. Following identification of discrete tasks and potential MBE/WBE firms by the PM and MBE/WBE subcontracting coordinator, bid solicitations will be requested from qualified firms and, to the extent possible, one or more MBE/WBE firms will be requested to bid on each task. If the bids exceed $20,000, at least five bids will be obtained. If the bids range between $5,000 and $20,000, three bids will be obtained. If the bids are less than $5,000, EEEPC plans to solicit three quotes from MBE/WBE firms, if possible. Professional services will be subcontracted to MBE/WBE firms pursuant to applicable New York State regulations, if possible.

MBE/WBE Services Proposed for this Work Assignment

Two different New York State-certified MBE/WBE analytical laboratories will be utilized for analytical services required for tasks 2, 3, and 4:

- Mitkem Corporation; and
- Kemron Environmental Services, Inc.

Following the initial EWTS inspection with Region 9 NYSDEC personnel, bids will be requested from MBE/WBE firms for potential subcontracted services for Tasks 2 and 3, including:

- Installation of EWTS upgrades; and
- Routine EWTS O&M services.

A summary of all potential MBE/WBE subcontracts for this work assignment are provided in Table 8-2 below.

Table 8-2 Summary of Potential MBE/WBE Subcontracts

Scope of Work	MBE/WBE?	$ Amount	% of WA Budget
Analytical Services	Yes	$25,977	9%
Installation of EWTS upgrades	Anticipated Yes	$40,000 budgeted	14%
Routine EWTS O&M services	Anticipated Yes	$30,000 budgeted	10%
	Total	**$95,977**	**33%**

Consultant/Contractor Detailed MBE/WBE and EEO Utilization Plan
New York State Department of Environmental Conservation

Consultant/Contractor Name: Ecology and Environment Engineering, P.C.		Contract #/Type: D004442-12	
Address 368 Pleasant View Drive	City Lancaster	State New York	Zip Code 14086
Project Owner Name New York State Department of Environmental Conservation		Project/Grant No.:	
Address 625 Broadway	City Albany	State New York	Zip Code 12233
Authorized Representative:		Title:	
Authorized Signature:			
Contract Description: Niagara Transformer Corporation Operations & Maintenance, NYSDEC Site No. 9-15-146			

EEO and MBE/WBE Contract Summary

	%	Amount		%	No./Emp.	Wk./Hrs.
1. Total Dollar Value of the Prime Contract	100	$283,461	5. Total No. Employees/Work Hours			
2. MBE Goal Applied to the Contract	15	$42,519	6. Total Goal for Minority Empoyees			
3. WBE Goal Applied to the Contract	5	$14,173	7. Total Goal for Female Em-ployees	N/A		
4. MBE/WBE Combined Totals	20	$56,692	8. EEO Combined Totals			

Bureau of Minority & Business Programs Use Only

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

Section I – MBE Information: In order to achieve the MBE Goals, New York State Certified MINORITY-OWNED firms are expected to participate in the following manner.

MBE Firm	Description of Work MBE	Projected MBE Contract Amount and Award Date	Contract Schedule Start Date	Contract Payment Schedule	Project Completion Date
Name: Mitkem Corporation Address: 175 Metro Center Boulevard City: Warwick State/Zip Code: Rhode Island/02886 Telephone No.: 401-732-3400	Analytical Services	$16,195.00 Date: 2007			
Name: Kemron Environmental Services, Inc. Address: 8150 Leesburg Pike, Suite 1400 City: Vienna State/Zip Code: Virginia/22182 Telephone No.: 703-893-4106	Analytical Services	$9,782.00 Date: 2007			
Name: TBD Address: City: State/Zip Code: Telephone No.:	EWTS O&M	$30,000 Date:			

Section II – WBE Information: In order to achieve the WBE Goals, New York State Certified WOMEN-OWNED firms are expected to participate in the following manner.

WBE Firm	Description of Work WBE	Projected WBE Contract Amount and Award Date	Contract Schedule Start Date	Contract Payment Schedule	Project Completion Date
Name: TBD Address: City: State/Zip Code: Telephone No.:	EWTS upgrades .	 $40,000 Date:			
Name: Address: City: State/Zip Code: Telephone No.:		 $ Date:			
Name: Address: City: State/Zip Code: Telephone No.:		 $ Date:			

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

		All Employees		Minority Employees			
Job Categories	**Total Work Hours of Contract**	**Males**	**Females**	**Black**	**Asian**	**Native American**	**Hispanic**
Officials/ Managers							
Professional							
Technicians							
Sales Workers							
Office/Clerical							
Craftsmen							
Laborers							
Service/Workers							
Totals							

9 References

Ecology and Environment Engineering, P.C. (EEEPC), 2000, Additional Investigation Report, Niagara Transformer Corporation Site, Town of Cheektowaga, Erie County, New York.

_____, 2005, Final Operations and Maintenance Manual, Niagara Transformer Corporation Site, Town of Cheektowaga, Erie County, New York.

New York State Department of Environmental Conservation (NYSDEC), 2004, Surface Water Drainage Facility Agreement No. NYC-046252, agreement with CSX Transportation, Inc., signed April 26, 2004.

_____, 1993, Record of Decision, Niagara Transformer Site.

State of New York, 1996, Consent Decree with Niagara Transformer Corporation, signed March 22, 1996.

A Certificate of Liability Insurance

Client#: 812 ECOLENV

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/27/06

PRODUCER
HRH of Upstate New York, LLC
344 Delaware Avenue
Buffalo, NY 14202
716 856-1100

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
Ecology and Environment Engineering,P.C.
368 Pleasant View Drive
Lancaster, NY 14086

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Commerce & Industry Ins. Co.	19410
INSURER B: American International Specialty Ins	26883
INSURER C:	
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY	GL4178739	08/01/06	08/01/07	EACH OCCURRENCE	$3,000,000
		[ ] COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence)	$500,000
		[ ] CLAIMS MADE [X] OCCUR				MED EXP (Any one person)	$50,000
						PERSONAL & ADV INJURY	$3,000,000
						GENERAL AGGREGATE	$3,000,000
		GEN'L AGGREGATE LIMIT APPLIES PER:				PRODUCTS - COMP/OP AGG	$3,000,000
		[ ] POLICY [ ] PRO-JECT [ ] LOC					
A		AUTOMOBILE LIABILITY	CA5053647	08/01/06	08/01/07	COMBINED SINGLE LIMIT (Ea accident)	$2,000,000
		[X] ANY AUTO	CA5053648	08/01/06	08/01/07		
		[ ] ALL OWNED AUTOS	CA5053649	08/01/06	08/01/07	BODILY INJURY (Per person)	$
		[ ] SCHEDULED AUTOS					
		[X] HIRED AUTOS				BODILY INJURY (Per accident)	$
		[X] NON-OWNED AUTOS					
						PROPERTY DAMAGE (Per accident)	$
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
		[ ] ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	$
						AGG	$
A		EXCESS/UMBRELLA LIABILITY	BE5190387	08/01/06	08/01/07	EACH OCCURRENCE	$10,000,000
		[X] OCCUR [ ] CLAIMS MADE				AGGREGATE	$10,000,000
							$
		[ ] DEDUCTIBLE					$
		[X] RETENTION $ 10000					$
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	5130077	08/01/06	08/01/07	[X] WC STATU-TORY LIMITS [ ] OTH-ER	
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	5130078	08/01/06	08/01/07	E.L. EACH ACCIDENT	$1,000,000
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE	$1,000,000
						E.L. DISEASE - POLICY LIMIT	$1,000,000
B		OTHER Professional & Pollution Legal Liability	3778259	08/01/06	08/01/07	$1,000,000 Each Claim $1,000,000 Aggregate $500,000 Retention	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

RE: Contract Number 002700 - -- NYSDEC, the State of New York, Niagara Transformer Corporation and CSX Transportation, Inc. are named as an additional insured on all certified policies as required by contract -- workers compensation and professional liability excepted.

CERTIFICATE HOLDER

CSX Tranportation, Inc.
500 Water Street
Jacksonville, FL 32202

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

B-1 Analytical Services Scope of Work

Exhibit 1
Scope of Work
ANALYTICAL SERVICES
Niagara Transformer Corporation (NTC) Site
Cheektowaga, County of Erie, New York
October 4, 2006

General Requirements

Overall Project Scope

Ecology and Environment, Inc. (E & E) is subcontracting analytical services on behalf of the New York State Department of Environmental Conservation (NYSDEC). The analytical services include chemical analysis of waters and solids/sediments. The analytical services will be performed in accordance with the Final Operations and Maintenance Manual that includes sampling plan information and analytical program. All requirements of this document are incorporated into this SOW.

1. Site Description

The site is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State. The site is located at 1747 Dale Road in an industrial area in the town of Cheektowaga, Erie County, New York. The 3.6-acre site is owned by NTC, a local manufacturer of electronic transformers, located between Harlem Road and Interstate 90. On the site, there is an active main plant (manufacturing/office facility); a storage building; and aboveground oil storage tanks at a tank farm to the south. The exiting facility previously handled PCB-containing dielectric fluids for use in transformer rebuilding, repair, and manufacture. A limited portion of the facility was contaminated by the handling of PCBs. Additional off-site streams, ditches, and retention ponds were also contaminated as a result of off-site transport of PCBs by sediments and surface waters.

Previous investigations by the New York State Department of Environmental Conservation (NYSDEC) have PCBs and chlorobenzenes as site contaminants.

2. Schedule

Field activities and therefore analytical services are expected to be performed over a three year period and consist of multiple tasks involving monthly, quarterly, semi-annual or annual sampling events.

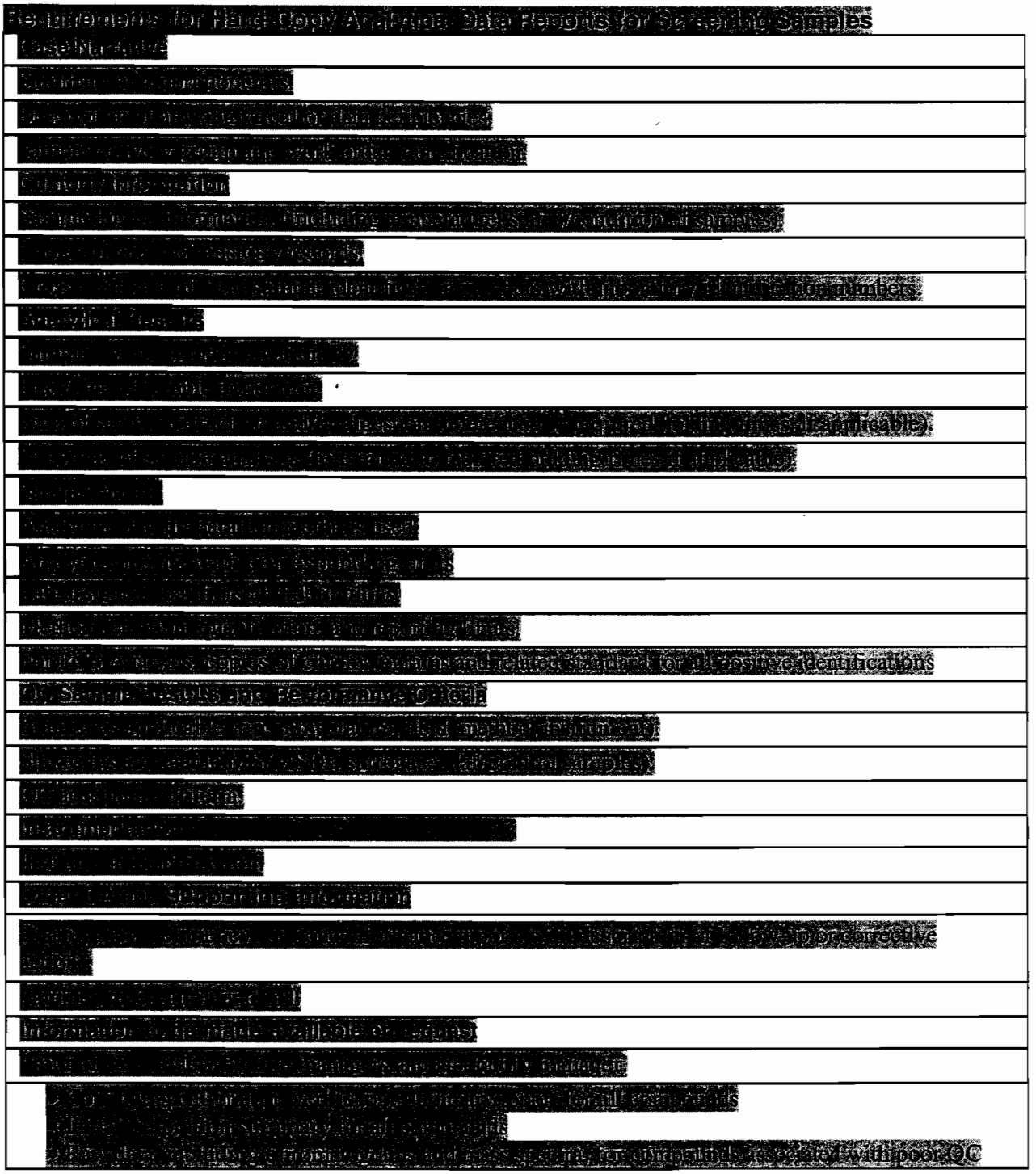
3. Project Reporting

a. Laboratories must submit a sample receipt log for set of sample delivery group (SDG) received. An SDG is defined as batch of up to 20 samples collected during one calendar week. The sample receipt report should include a copy of the Chain of Custody (COC), a PDF file with the log in report showing the tests selected and an electronic file that contains the information in Attachment A. The electronic file will be used to check field IDs so corrections can be implemented before the hard copy is produced. The laboratory must submit a sample receipt log for each set of samples received. This report must be submitted via e-mail or posted to E & E's subcontractor lab extranet site within 24 hours of sample receipt. Failure to provide the

sample receipt data will result in a 5% deduction taken from each affected invoice. Copies of the COC records must also be included with the final hard copy report. Upon award of the subcontract, E & E will provide the Subcontractor with instructions on how to access E & E's subcontractor lab extranet site.

b. The standard turnaround time (TAT) for reporting of results and EDD file is 21 days.

c. Analytical data must be reported in format consistent with Category A reporting according to the NYSDEC ASP, 2005 revision:



[redacted]

d. Electronic data must be provided in the E&E Standard Format. See Attachment B.

All hard copy reports should be shipped to:
Andrew Murphy
Ecology and Environment, Inc.
368 Pleasant View Drive
Lancaster, New York 14086

Electronic reports and data deliverables should be emailed to:

AMurphy@ene.com and RHumphrey@ene.com

4. Cost

The subcontractor unit costs are specified in Exhibit 2. The unit rates must include the following:

- All laboratory quality control (QC) samples per batch of up to 20 samples including LCS, Method Blank, and MS/MSD. Any sample batch that contains project samples also must include an MS/MSD on one of the project-related samples. Batch QC for MS/MSD cannot be reported in lieu of project-specific MS/MSD. The laboratory must include this cost in their unit rate.

- All sample clean-up procedures and dilutions and/or re-analysis as required by the method must be included in the unit rate. The subcontractor must agree to analyze all samples initially at the lowest possible dilution.

- The laboratory will provide all of the appropriate sample containers and coolers, sample paperwork (e.g., sample bottle labels, chain-of-custody forms, chain-of-custody seals), and packing material (e.g., bubble wrap).

- The unit rate also must include all shipping **to and from** the site for routine analysis.

- Unit Rates must be held up to completion of the project. E & E anticipates if any additional sampling phases are conducted the work will be awarded to the same laboratory at the unit rates listed in Exhibit 2.

5. Analytical Work Requirements

The laboratory must be approved by the New York State Environmental Laboratory Accreditation Program (ELAP) for the parameters for which they are responsible. Use of a second-tier laboratory is prohibited unless approved in advance.

6. Analyses, Methods, and Detection Limits

Samples will be analyzed for PCBs according to Method 8082 and chlorobenzenes (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene and 1,2,4-trichlorobenzene) according to Method 8270C, using the most recent version of the EPA SW-846 Methods.

Reporting limits of 0.065 ug/L are required for the Method 8082 water sample analysis. Laboratories are required to submit standard reporting limits for the other parameters with the bid.

Holding time must comply with NYSDEC ASP requirements.

Quality control criteria must be consistent with the NYSDEC ASP, 2005 Revision.

7. Sample Container/Sample Shipment/Sample Volume

The address for shipping sample coolers containing all bottles and preservatives will be provided to the Subcontractor at subcontract award.

The laboratory will provide all of the appropriate sample containers and coolers, sample paperwork (e.g., sample bottle labels, chain-of-custody forms, chain-of-custody seals), and packing material (e.g., bubble wrap).

Copies of the chain-of-custody records must be included with the final hard copy report.

8. Hard-Copy and Electronic Data Deliverables

The laboratory must certify the electronic data match the hard copy reported for each package as defined in Exhibit 6 of the master service agreement. If the electronic data contain errors the data will be considered late and penalties assessed as outlined in the master services agreement.

Any errors in the report or EDD identified by E & E will be corrected by subcontractor at their cost. Time taken to correct errors will be considered "late" time and penalties will be assessed in accordance with the terms of the Basic Ordering Agreement (BOA). If necessary, E & E reserves the right to make corrections to either the electronic and/or hard copy data and to deduct the costs incurred by E & E from the laboratory invoices.

9. Response to Data Review Comments

The laboratory will address validation or data-package comments/questions within 48 hours of receipt and provide updated hard-copy deliverables within one week of notification.

10. QA Program

The subcontractor laboratory will submit a copy of their current QA manual (if not already on file) and identified practices that deviate from this SOW, method requirements, or other requirements. The laboratory must be certified by NYSDOH for the requested parameters. Copies of the certification will be provided in the laboratory QA manual or provided separately. Any loss of certification or unacceptable proficiency result will be reported immediately to E & E's QA Director. Any out-of-control analyses also will be reported immediately to E & E's QA Director for review of corrective actions.

11. Sample Disposition

The laboratory will dispose of the samples, including the unused portions of open containers in a manner that meets all state and federal regulations.

12. Invoicing

In accordance with the terms of the BOA with E&E, all invoices must be sent to:

Accounts Payable
Ecology and Environment Inc.
368 Pleasant View Drive
Lancaster, NY 14086

Copies of invoices included with analytical data will be discarded

13. Contract Terms and Conditions

This work will be performed under the terms of the BOA between the laboratory and E & E. If the Subcontractor does not have a current BOA this agreement will be required to be executed prior to the start of the work.

EXHIBIT 6

SUBCONTRACTOR DELIVERABLES CERTIFICATION FORM

TO: ECOLOGY AND ENVIRONMENT, INC.
Corporate Headquarters
368 Pleasant View Drive
Lancaster, NY 14086

Attention: Rebecca Humphrey (RHumphrey@ene.com)

Laboratory: _____

Laboratory Work Order No: _____

This Exhibit must be completed and returned to E & E with each data submittal

Laboratory certifies that the electronic version of the data submitted for the above referenced Work Order is an EXACT DUPLICATE of the hard copy report and that both deliverables conform exactly to the E & E project requirements and are being submitted error free.

Any errors identified by E & E will be corrected by subcontractor at their cost. If errors are corrected by E & E in order to meet E & E prime contract responsibilities, the cost will be deducted from the payment made to the laboratory using E & E standard commercial rates.

Executed this ___ day of _____, 20 ___

_____
Subcontractor

_____
Signature

_____
Name

_____
Title

ATTACHMENT A

ELECTRONIC DATA DELIVERABLE (EDD)

E & E Corporate EDD Specification for Subcontracted Work

The following is to be provided in an Access table or Excel spreadsheet (Version 2000 or higher). Field samples and laboratory quality control are to be provided. There are no field length limitations. All fields should be in text format except date/time fields (mm\dd\yyyy hh:mm:ss AM) and MS field (Yes/No). Table field names should be as specified below.

Field Name	Description	Valid Values
WorkOrder	Laboratory Work Order (SDG)	
ClientID	Name of client	Null ok
ProjectID	Name of project	Null ok
DateReceived	Date Samples Received	(date/time)
ClientSampID	Field Sample ID (Not ASC)	As per client COC no suffixes
CollectionDate	Date Samples collected	(date/time)
Matrix	Sample Matrix	Never Null
Pmoist	Sample Percent moisture	Null if water sample
SDG	Sample Delivery group	Null ok
TestNo	Test Method Reference	Never Null - use method reference (i.e. SW8260B)
TestName	Test Name or Description	Null Ok Example: "VOCs, Encore Samples by GCMS Method 8260B"
SampID	Laboratory Sample ID	Never Null
SampType	Sample Type	Must use the following values. SAMP = Field Sample, DL = Dilution, RA = Reanalysis, RE = Reextraction, MBLK = Method Blank, LCS = Laboratory Control Sample, MS = Matrix Spike, MSD = Matrix Spike Duplicate, DUP = Lab Duplicate
BatchID	Laboratory Batch ID (prep)	Never Null Can be the same as RunID if no prep required.
PrepDate	Preparation Date	(date/time)
RunID	Analysis Batch ID	Never Null
AnalDate	Analysis Date	(date/time)
Quantype	Primary or confirmation	P- Primary result (default) C- confirmation result (if required by method)
CAS	CAS Number	Only registered CAS numbers.
AnalyteType	Analyte Type	A = Analyte/parameter, S = Surrogate, T = TIC
Analyte	Analyte Name	Never Null
R_Result	Result	Express Non detects same as on hard copy report
R_Qual	Qualifier	Please define if not industry standard.
R_Units	Units of Result, MDL, PQL, SpkVal	Never Null
R_MDL	Method Detection Limit	Never Null - 0 if no MDL for analyte/method
R_PQL	Practical Quantitation Limit (RL)	Never Null - 0 if no PQL for analyte/method
R_DilFac	Dilution Factor	Never Null
R_Spike	Spike Value	Populate for Surrogates, LCS, MS/MSD
R_REC	Percent Recovery	Populate for Surrogates, LCS, MS/MSD
R_LowLimit	Acceptable Recovery Limit - Lower	Populate for Surrogates, LCS, MS/MSD
R_HighLimit	Acceptable Recovery Limit - Upper	Populate for Surrogates, LCS, MS/MSD
R_RPD	Relative Percent Difference	Populate for MSD, LCSD and DUP
R_RPDLimit	Acceptable RPD limit (upper)	Populate for MSD, LCSD and DUP
RT	Retention Time	Populate if available for TICs only, otherwise Null

Field Name	Description	Valid Values
BLKrefval	Result of associated Method Blank.	Populate if available
SPKrevfal	Result of associated Sample (original)	Populate if available (MS/MSD)
RPDrefval	Result of associated Sample (original)	Populate if available
MS	Matrix Spike requested by client	Yes/No field -1 if yes otherwise 0
InitSampWtVol	Initial Sample Weight or Volume	Null ok
InitWtVolUnit	Initial Sample Weight or Volume Unit	Null ok
FinSampVol	Final Sample Volume	Null ok
FinVolUnit	Final Sample Volume Unit	Null ok
Quality	Quality for TICS	Populate if available for TICs only, otherwise Null

Contact Marcia Meredith Galloway with questions (716) 684-8060.

1/18/2005

Sample Receipt File

This table contains information related to the receipt of field samples.

The file should be a comma-delimited ASCII text file or Excel CSV file (csv preferable). The naming convention should be as follows, laboratory reporting batch ID (SDG) followed by SR (sample receipt) with the extension of .txt or .csv. For example:

SDG001SR.csv

LabID	Laboratory Identifier	Text	20	Yes
ProjectNumber	Project number assigned by the client	Text	30	Yes
ProjectName	Project name assigned by the client	Text	90	Yes
ClientSampleID	Client or contractor's identifier for a field sample	Text	25	No
Collected	Date and Time of sample collection. Refer to date/time format at the end of this table.	Date/ Time	16*	No
MatrixID	Sample matrix (i.e. AQ, SO, etc.)	Text	10	Yes
LabSampleID	Laboratory tracking number for field samples. Must be unique for a given field sample.	Text	25	No
ShippingBatchID	Unique identifier assigned to a cooler or shipping container used to transport client or filed samples. Links all samples to a cooler or shipping container. (optional)	Text	25	No
Temperature	Temperature (in centigrade degrees) of the samples as received.	Numeric	10	No
LabReceipt	Date and time the sample was received in the lab. A time value of 00:00 may be entered. Refer to the date/time format at the end of this table.	Date/ Time	16*	No
LabAnalysisRefMethodID	Laboratory reference method ID. The method ID may be an EPA Method number or laboratory identifier for a method such as a SOP number, however; values used for Laboratory Method IDs are specified by the project and must be in the standard value list for method IDs.	Text	25	Yes (project specific See QAPP and Project Library)
PreparationType	Preparation Method Number (i.e. 3010A,3510C, 3550C, 5030B, etc.) For analytical procedures that do not have a specific preparation method number, use "Gen Prep".	Text	25	Yes

* For radiochemistry only samples format Date as MM/DD/YYYY (where MM= two digit month, DD = two digit day, and YYYY = four digit year).

For all other samples format Date and Time as MM/DD/YYYY hh:mm (where MM = two digit month, DD = two digit day, YYYY = four digit year, hh = hour in 24 hour format, and mm = minutes).

Contact: Rebecca Humphrey at 716-684-8060 or rhumphrey@ene.com .

Sample Receipt File

Valid Values:

MatrixID

AIR	Air
AQ	Water
ASH	Ash
BIOTA	Biological matter
FILTER	Filter
LIQUID	Identifiable non-aqeous liquid.
OIL	Oil
SED	Sediment
SLUDGE	Sludge
SO	Soil
SOLID	Identifiable non-soil solid, or unidentifiable solid
TISSUE	Tissue
WASTE	Waste
WIPE	Wipe

LabID
Contact Rebecca Humphrey

ProjectNumber
Refer to ADR project library or Contact Rebecca Humphrey

ProjectName
Refer to ADR project library or Contact Rebecca Humphrey

LabAnalysisRefMethodID
Refer to ADR project library or Contact Rebecca Humphrey

PreparationType

3005A	Acid Digestion of Waters for Total Recoverable or Dissolved Metals by FLAA or ICP
3010A	Acid Digestion of Aqueous Samples and Extracts for Total Metals by FLAA or ICP
3015	Microwave Assisted Acid Digestion of Aqueous Samples and Extracts
3020A	Acid Digestion of Aqueous Samples and Extracts for Total Metals by GFAA
3031	Acid Digestion of Oils for Metals Analysis by AA or ICP
3050B	Acid Digestion of Sediments, Sludges, and Soils
3051	Microwave Assisted Acid Digestion of Sediments, Sludges, Soils and Oils
3052	Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices
3060A	Alkaline Digestion for Hexavalent Chromium
3510B	Separatory Funnel Liquid-Liquid Extraction
3510C	Separatory Funnel Liquid-Liquid Extraction
3520C	Continuous Liquid-Liquid Extraction
3535	Solid Phase Extraction
3540C	Soxhlet Extraction
3541	Automated Soxhlet Extraction
3545	Pressurized Fluid Extraction

Sample Receipt File

3550B	Ultrasonic Extraction
3560	Supercritical Fluid Extraction of Total Recoverable Petroleum Hydrocarbons
5030B	Purge and Trap for Aqueous Samples
5035	Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples
7470A	Acid digestion of waters for Mercury analysis
7471A	Acid digestion of soils and solids for Mercury analysis
8015B	Shake out
8151A	8151A
8330	Extraction and cleanup for Method 8330
9045	Preparation of soils for pH measurement
9056	Preparation of soils and waters for Method 9056
Gen Prep	Generic preparation type when a preparation method ID does not exist (used mostly for general chemistry methods)

B-2 Waste Stream Technology Bid

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street
Buffalo, N.Y. 14207-2442
Phone (716) 876-5290
FAX (716) 876-2412

October 11, 2006

Marcia Meredith Galloway
Ecology and Environment, Inc.
368 Pleasant View Drive
Lancaster, New York 14086

Re: Analytical services bid "Niagara Transformer Corporation (NTC) Site".

Dear Ms. Galloway

Thank you for the opportunity to bid on the Niagara Transformer Corp. Site, Cheektowaga, NY laboratory work. The following paragraphs and the attachments include additional information requested to go along with our quotation submitted by fax on October 10, 2006. (Exhibit 2)

Certifications and Accreditations

Waste Steam Technology is a full service, fully accredited environmental laboratory that includes certifications from New York States NELAP program; United States Army Corps of Engineers, as well as many other states and agencies. Copies of our certifications for the required parameters are found in Attachment 1.

Detection Limits

The detection and laboratory QC limits for the compounds of interest listed in this request are found in Attachment 2. (As stated in Section 5 of NYSDEC ASP Exhibit E, Aroclors 1262 and 1268 are required. Waste Stream Technology is not currently certified for these aroclors and therefore no detection limit information is available at this time. If these aroclors are required for this site, certification, if available, would have to be obtained and detection limit studies would have to be performed.)

Deliverables

Deliverables for this project will be reported in a standard Waste Stream report which will address the needs outlined in the bid request and an EDD consistent with E & E Corporate EDD Specification for Subcontracted Work. Waste Stream Technology also offers "real-time" online data and sample custody review.

Containers, Labels, Custody Seals and Coolers

The pricing listed in the Exhibit 2 table include drop-off and pick-up of complete sampling kits including Coolers, Bottles, Sample Labels, Chain-of-Custody's and Custody Seals.

Quality Control Samples

Quality control samples, such as Method blanks, LCS's and MS/MSD's will be analyzed with each sample batch. The price of this QC is included in the analytical pricing.

Waste Stream is very interested in working with E and E on this project so if you have any questions on this bid, please contact me immediately at 716-876-5290 ext14. We also would like to be included on any future contract bids that may come up through your office. My e-mail address is jgiacomazza@wastestream.com and our mailing address is listed below.

Waste Stream Technologies, Inc.
302 Grote Street
Buffalo, New York 14207
Attn: Joe Giacomazza

Sincerely,

Joseph Giacomazza
Waste Stream Technology – Project Manager

cc: J. Hyzy, WST

Exhibit 2
SAMPLING AND CHEMICAL ANALYSIS DETAIL TABLE
Niagara Transformer Corporation (NTC) Site
Cheektowaga, County of Erie, New York

Matrix	Location	Task No.	Estimated Quantity	Frequency	Total Estimated Quantity	Analyses	Unit Costs
Water	Monitoring wells & 18" HDPE outflow	2	10	Semi-annually for 3 years	60	PCBs, 8082	$80
		2	10	Semi-annually for 3 years	60	Chlorobenzenes, 8270	$180
Water	Upstream CBs	2	4	Semi-annually for 3 years	24	PCBs, 8082	$80
Water	Retention pond influent & effluent	2	2	Annually for 3 years	6	PCBs, 8082	$80
Sediments	E/W ditch	2	1	Annually for 3 years	3	PCBs, 8082	$80
Solids	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082	$80
Liquid	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082	$80
Water	EWTS influent & effluent	3	2	Monthly for 9 mos/year for 3 years	54	PCBs, 8082	$80
Water	Storm water study	4	20	Quarterly for 1 year	80	PCBs, 8082	$80
				TOTAL	225		$24,000

All samples will be collected using dedicated equipment to eliminate the requirement of field quality control samples

B-3 Kemron Environmental Services, Inc. Bid

Murphy, Andrew (Buffalo)

From: Micalyn Harris [mharris@kemron-lab.com]
Sent: Tuesday, October 10, 2006 9:37 AM
To: Galloway, Marcia
Subject: Proposal 2006-A-401 Niagra Transformer

Attachments: Proposal 2006-A-401 Niagra Transformer.pdf; E&E Niagra 2006-A-401.xls; 8270_water limits.pdf; 8082_soil limits.pdf; 8082_TCLP limits.pdf; mharris.vcf


Proposal 06-A-401 Niagra Tra


E&E Niagra 2006-A-401.xls (30 ..


8270_water limits.pdf (6 KB)


8082_soil limits.pdf (4 KB)


8082_TCLP limits.pdf (4 KB)


mharris.vcf (358 B)

Hi Marcia,

Thank you for including KEMRON in your RFP for the Niagra Transformer project; attached is our bid submission. I appreciate your help yesterday in finalizing our technical review. I have included KEMRON's notations on the Pricing spreadsheet. If you have any additional comments or questions regarding our bid submission, please let me know.

We look forward to working with you soon.

Thank you,
Micalyn

Kemron Environmental Services
156 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Exhibit 2
SAMPLING AND CHEMICAL ANALYSIS DETAIL TABLE
Niagara Transformer Corporation (NTC) Site
Cheektowaga, County of Erie, New York

Matrix	Location	Task No.	Estimated Quantity	Frequency	Total Estimated Quantity	Analyses	Unit Costs
Water	Monitoring wells & 18" HDPE outflow	2	10	Semi-annually for 3 years	60	PCBs, 8082	67
		2	10	Semi-annually for 3 years	60	Chlorobenzenes, 8270	170
Water	Upstream CBs	2	4	Semi-annually for 3 years	24	PCBs, 8082	67
Water	Retention pond influent & effluent	2	2	Annually for 3 years	6	PCBs, 8082	67
Sediments	E/W ditch	2	1	Annually for 3 years	3	PCBs, 8082	67
Solids	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082	102
Liquid	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082	77
Water	EWTS influent & effluent	3	2	Monthly for 9 mos/year for 3 years	54	PCBs, 8082	67
Water	Storm water study	4	20	Quarterly for 1 year	80	PCBs, 8082	67
				TOTAL	225		

All samples will be collected using dedicated equipment to eliminate the requirement of field quality control samples

Unit Cost Includes:
TAT of 21 calendar days (results shall not be due on weekends or holidays, and will be reported on the next business day)
Data package in accordance with ASP protocol (Level-2, chromatograms for 8082 hits only)
Shipping to and from the site
MS/MSD analysis (client to provide MS/MSD volume for organic analyses)
Sample analysis, dilution, extraction, etc.
E&E EDD

Per the RFP, Kemron will rpvide a sample confirmation for each SDG to E&E's extranet within 24-hours of sample receipt (copy of COC, PDG of log-in report, and the electronic file containing the information in Exhibit A). KEMRON also agrees to initially analyze samples at the lowest possible dilution.

Reporting Limits:
KEMRON can meet 0.065 ppb for PCBs as requested in the RFP (MDL of 0.025 ppb and RL of 0.05 ppb). KEMRON will meet 0.065 ppb by concentration the sample to 1mL at extraction (standard procedure is to concentrate to 10mL). Our calibration range will remain from 50ppb to 2000ppb. Our default limits for 8270 are attached. We will create a customized compound list to only report the following compounds:
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,2,4-Trichlorobenzene

Notes to ASP:
Holding times for ASP will be met (water 5-days, solid 12-days)
Quality control limits will be met in accordance with NY ASP 2005 Revision, with the following caveats:
<u>8081--</u>
1.) ASP requests Arochlors 1262 and 1268. KEMRON does not currently analyze for these Arochlors and they are not listed on our NYSDOH certification.
2.) ASP suggests calibration curve ranging from 100ppb to 1600ppb, KEMRON's calibration curve ranges from 50ppb to 2000ppb.
3.) KEMRON does not perform sulfur clean-up (we perform acid clean-up for 8082). The acid clean-up does not remove sulfur from the samples; however, for 8082 analysis KEMRON does not consider non-target peaks a cause for dilution. Samples would only be diluted due to the matrix of the sample or a hit that is above the calibration range.
4.) ASP requests the LCS spike at 25ppb, which is below their suggested calibration range. KEMRON LCS spike will be at 250ppb.

*In accordance with ASP, KEMRON will
a.) analyze a CCV for any aroclor hit other than 1016 and 1260.
b.) analyze an instrument blank in addition to the method blank

<u>8270--</u>
1.) KEMRON's calibration range is from 3ppb to 120ppb with 50ppb as the mid-point of the calibration.
2.) KEMRON uses 6 surrogates instead of the suggested 8--we do not include 2-chlorophenol-d4 and 1,2-dichlorobenzene d4.
3.) We do not perform GPC clean-up.

*In accordance with ASP, KEMRON agrees to run an ending CCV standard.

Additional Project Notes:
Waste Characterization for soil includes TCLP extraction cost.
Waste Characterization for water includes filtration only.

EDDs:
Please provide 40-hours notice before sample receipt for EDD programming in accordance with Attachments A and B.

Unit rates will remain in place throughout the duration fo the project as long as there are not significant changes in SOW.

Exhibit 2
SAMPLING AND CHEMICAL ANALYSIS DETAIL TABLE
Niagara Transformer Corporation (NTC) Site
Cheektowaga, County of Erie, New York

Matrix	Location	Task No.	Original Estimated Quantity	New Estimated Quantity	Original Frequency	New Frequency	Original Total Estimated Quantity	New Total Estimated Quantity	Change	Analyses
Water	EWTS influent & effluent	3	2	2	Monthly for 9 mos/year for 3 years	Monthly for 9 mos/year for 3 years	54	54	0	PCBs, 8082
Water	Storm water study	4	20	20	Quarterly for 1 year	Quarterly for 1 year	60	60	0	PCBs, 8082
PCB Wipe	Storm water study	4	NA	3	NA	Quarterly for 1 year	NA	12	12	PCBs, 8082

All samples will be collected using dedicated equipment to eliminate the requirement of field quality control samples

Murphy, Andrew (Buffalo)

From: Krajewski, Barbara
Sent: Thursday, November 16, 2006 1:47 PM
To: Murphy, Andrew (Buffalo)
Subject: FW: NTC

Attachments: mharris.vcf

mharris.vcf (358 B)

-----Original Message-----
From: Micalyn Harris [mailto:mharris@kemron-lab.com]
Sent: Thursday, November 16, 2006 1:46 PM
To: Krajewski, Barbara
Subject: Re: NTC

Barb,

Yes, we will be glad to honor our bid price of $67 per sample for tasks 3 and 4. The wipe samples added to task 4 will also be $67 each.

Thank you,
Micalyn

Krajewski, Barbara wrote:
>
> Micalyn,
>
>
>
> The project manager for the NTC project notified me today that he
> would like to award the Task 3 and 4 work to your lab. There has been
> a revision to the sample quantities, however. (see attached table).
> Please verify if you will honor the original unit prices for the
> adjusted quantities. An email with a "yes" would be nice for the work
> plan. Thank you.
>
>
>
>
>
> Barb Krajewski
>
> Ecology & Environment, Inc.
>
> 716-684-8060 x2511
>
> bkrajewski@ene.com
>
>
>

Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
(740) 373-4071

B-4 Mitkem Corporation Bid

Murphy, Andrew (Buffalo)

From: Jim Stadelmaier [jstadelmaier@mitkem.com]
Sent: Tuesday, October 10, 2006 10:34 AM
To: Galloway, Marcia
Cc: bdodge@mitkem.com
Subject: Niagara Transformer
Attachments: Mitkem NTC 2006-10-9.1.PDF; Mitkem 2006-10-9.1 NTC Exhibit 2

Marcia,

Attached, please find Mitkem's quote for the referenced project. Please feel free to contact me with any questions.

Thanks for this opportunity.

Jim

James E. Stadelmaier, CSP, CHMM
Senior Account Executive
Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732 3400
(401) 732 3499 (fax)
(716) 597 6596 (cell)

Exhibit 2
SAMPLING AND CHEMICAL ANALYSIS DETAIL TABLE
Niagara Transformer Corporation (NTC) Site
Cheektowaga, County of Erie, New York

Matrix	Location	Task No.	Estimated Quantity	Frequency	Total Estimated Quantity	Analyses	Unit Costs
Water	Monitoring wells & 18" HDPE outflow	2	10	Semi-annually for 3 years	60	PCBs, 8082	65
		2	10	Semi-annually for 3 years	60	Chlorobenzenes, 8270	150
Water	Upstream CBs	2	4	Semi-annually for 3 years	24	PCBs, 8082	65
Water	Retention pond influent & effluent	2	2	Annually for 3 years	6	PCBs, 8082	65
Sediments	E/W ditch	2	1	Annually for 3 years	3	PCBs, 8082	95
Solids	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082	95
Liquid	Waste characterization	2	1	Annually for 3 years	3	PCBs, 8082	95
Water	EWTS influent & effluent	3	2	Monthly for 9 mos/year for 3 years	54	PCBs, 8082	95
Water	Storm water study	4	20	Quarterly for 1 year	80	PCBs, 8082	65
				TOTAL	225		

All samples will be collected using dedicated equipment to eliminate the requirement of field quality control samples

Exhibit 2
SAMPLING AND CHEMICAL ANALYSIS DETAIL TABLE
Niagara Transformer Corporation (NTC) Site
Cheektowaga, County of Erie, New York

Matrix	Location	Task No.	Original Estimated Quantity	New Estimated Quantity	Original Frequency	New Frequency	Original Total Estimated Quantity	New Total Estimated Quantity	Analyses
Water	Monitoring wells & 18" HDPE outflow	2	10	10	Semi-annually for 3 years	Semi-annually for 3 years	60	60	PCBs, 8082
		2	10	10	Semi-annually for 3 years	Semi-annually for 3 years	60	60	Chlorobenzenes, 8270
Water	Upstream CBs	2	4	4	Semi-annually for 3 years	Semi-annually for 3 years	24	24	PCBs, 8082
Water	Retention pond influent & effluent	2	2	2	Annually for 3 years	Annually for 3 years	6	6	PCBs, 8082
Sediments	Upstream CBs	2	NA	4	NA	Annually for 3 years	NA	12	PCBs, 8082
Sediments	E/W ditch	2	1	1	Annually for 3 years	Annually for 3 years	3	3	PCBs, 8082
Solids	Waste characterization	2	1	1	Annually for 3 years	Annually for 3 years	3	3	PCBs, 8082
Liquid	Waste characterization	2	1	1	Annually for 3 years	Annually for 3 years	3	3	PCBs, 8082

All samples will be collected using dedicated equipment to eliminate the requirement of field quality control samples

Murphy, Andrew (Buffalo)

From: Krajewski, Barbara
Sent: Thursday, November 16, 2006 12:12
To: Murphy, Andrew (Buffalo)
Subject: FW: NTC Quote

From: Jim Stadelmaier [mailto:jstadelmaier@mitkem.com]
Sent: Thursday, November 16, 2006 12:10 PM
To: Krajewski, Barbara
Subject: RE: NTC Quote

Yes.

Thanks Barb.

James E. Stadelmaier, CSP, CHMM
Senior Account Executive
Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732 3400
(401) 732 3499 (fax)
(716) 597 6596 (cell)

From: Krajewski, Barbara [mailto:BKrajewski@ene.com]
Sent: Thursday, November 16, 2006 10:53 AM
To: jstadelmaier@mitkem.com
Subject: NTC Quote

Jim,

The project manager for the NTC project notified me today that he would like to award the Task 2 work to your lab. There has been a revision to the sample quantities, however. (see attached table). Please verify if you will honor the original unit prices for the adjusted quantities. An email with a "yes" would be nice for the work plan. Thank you.

Barb Krajewski
Ecology & Environment, Inc.
716-684-8060 x2511
bkrajewski@ene.com