Project Management Work Plan
Power City Warehouse (9-32-131)
Niagara Falls, New York

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by

EA Engineering, P.C., and Its Affiliate
EA Science and Technology
6712 Brooklawn Parkway, Suite 104
Syracuse, New York 13211-2158
(315) 431-4610

July 2007
Revision: FINAL
EA Project No. 14368.11

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July 2007
Christopher J. Canonica, P.E., Program Manager — Date
EA Engineering, P.C.

July 2007
Robert Casey, Project Manager — Date
EA Engineering, P.C.

July 2007
David Crandall, Site Manager — Date
EA Science and Technology

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CONTENTS

1. INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to perform a subsurface soil and sump/drain sediment sampling evaluation at the Power City Warehouse Site (NYSDEC Site No. 9-32-131) located at 3123 Highland Avenue in the City of Niagara Falls, Niagara County, New York (Figure 1).

The Work Assignment will be conducted under the NYSDEC State Superfund Standby Contract (Work Assignment No. D004438-11). The initial step in the Work Assignment is preparation of this Project Management Work Plan (PMWP), which describes the anticipated work activities and the associated budget and staffing plan. The elements of this PMWP were prepared in accordance with the most recent and applicable guidelines and requirements of NYSDEC.

1.1 OBJECTIVES

The objectives of this Work Assignment are:

- Conduct a field investigation to characterize the contamination at the site and to determine the extent to which these contaminants pose a threat to human health and the environment.

- Collect soil samples from beneath all building floors (as building conditions permit) which are not constructed of concrete.

- Locate and identify all sumps and floor drains within the buildings. Identification numbers will be given to each. Sediment/soil observed within a sump and/or floor drain will be sampled. Determine and record the depths of each sump and floor drain. Estimate and record the total volume of soil/sediment present within each sump and floor drain.

- Document all field activities, submit analytical samples to Environmental Laboratory Analytical Program- (ELAP)-certified laboratories, summarize analytical data, and qualify analytical data through third party data validation.

1.2 PROJECT MANAGEMENT WORK PLAN ORGANIZATION

This PMWP is organized into the following sections:

- Section 1: Provides the overall approach and specific activities that will be performed during the SVI evaluation at the Power City Warehouse Site.

- Section 2: Presents the project organization and schedule

- Section 3: Identifies areas of work that will require subcontracting

- Section 4: Presents the utilization plan for Minority/Women-Owned Business Enterprise (M/WBE) subcontractors and Equal Employment Opportunity (EEO) within EA.

This PMWP is a stand alone document; the Work Plan will be submitted under a separate cover.

The budget for this Work Assignment (Schedule 2.11) is provided in Attachment A.

1.3 DESCRIPTION OF WORK TASKS

The following tasks have been completed or will be completed as part of the SVI evaluation:

- Work plan development
- Field activities
- Summary report.

A brief summary of each activity is provided below, and further details of the field activities are provided in the Work Plan.

1.3.1 Work Plan Development (Task 1)

A site visit was performed on 26 June 2007 in order to become familiar with the area and discuss proposed field work activities. Site visit attendees included representatives from the NYSDEC Division of Environmental Remediation and EA.

This PMWP includes the project scope of work, the final budget (including subcontract fees), the project schedule, the staffing plan, and the Minority and Women Owned Business Enterprise (M/WBE) and Equal Opportunity (EEO) Utilization Plan.

1.3.2 Field Activities (Task 2)

A field investigation will be conducted to characterize the contamination at the site and to determine the extent to which contaminants pose a threat to human health and the environment. Due to the large percentage of intact flooring in the site buildings, extensive subsurface soil or groundwater contamination is not expected. The exception to this may be soils under brick, tile, or asphalt flooring . One of the principle objectives of this site characterization work assignment will be to estimate the types and volumes of remaining site contaminants within and/or under the buildings. The basement area will not be included within this scope of work.

Field activities will consist of collecting soil samples from beneath all building floors (as building conditions permit) which are not constructed of concrete. Collapsed and/or unsafe buildings will not be included in the sampling effort. Large debris piles will also prevent sampling in some buildings. If the flooring material (i.e. brick, tile, or asphalt) cannot be broken and removed with a sledge hammer/pry bar or other hand tools, a portable drill will be used to core through flooring for sampling purposes.

Soil samples will be collected from beneath the flooring using a hand auger or by other appropriate means. The soil interval of 0-12 inches below the flooring will be collected and homogenized for sampling at each location. Each soil sample will be documented for soil type/characteristics and each soil location will be screened for organic vapors using a Photo Ionization Detector (PID). At least two (2) soil samples, per location, will be collected for analysis. One sample will be submitted at each location for TAL metals analysis (method 6010 with a one week turn around time) and SVOC analysis (method

8270). The other sample will be held by either the consultant or laboratory pending results of the total metals analysis. If significantly elevated lead or other metals concentrations are reported, the second sample from that location will be analyzed for TCLP metals. In addition, if the PID screening of the sampling location indicates elevated VOCs, a sample may be collected and submitted for VOC analysis (method 8260) at the discretion of the DEC project manager. Each sampling location will be marked with an identification number painted onto the nearby floor surface. Each location will also be marked with a sample flag or stake with the appropriate identification number.

The buildings will be inspected and all sumps and floor drains located will be given identification numbers. The sumps and floor drains will be measured and a total volume estimate of each will be recorded. Each sump and floor drain that is located and observed to be containing soil/sediment will be sampled. Composite samples will be taken from the floor drains and grab samples will be collected for individual sumps. After sampling, soil/sediment depths within each sump and floor drain will be determined, and an estimate of total soil/sediment depths within each sump and floor drain will be determined, and an estimate of total soil/sediment volume will be recorded. Each sump and floor drain will be marked with an identification number painted onto the nearby floor surface. Each sample location will also be marked with a sample flag or stake with an appropriate identification number.

Sample analysis shall be performed by an ELAP certified laboratory. All samples shall be analyzed for the following parameters:

- Semivolatile Organic Compounds; including Polynuclear Aromatic Hydrocarbons (PAHs) and Acid/Base Compounds;
- Volatile Organic Compounds (VOCs) on sub-floor soil samples that exhibit PID readings significantly above background levels – as directed by the DEC project manager;
- TAL Metals; and
- TCLP Metals as directed by the DEC project manager.

Historical records should be reviewed and used to create a base map of the site. Upon completion of field work, all sub-floor soil sample locations, sumps and floor drains will be recorded on a site base map. Off-set distances from building features will be used to record approximate sump, floor drain, and sub-floor sampling locations.

1.3.3 Field Documentation and Reporting (Task 3)

Field logbooks and soil boring logs, will be used during all onsite work. A dedicated field logbook will be maintained by the site manager overseeing the site activities. In addition to the logbook, any and all original sampling forms used during the field activities will be submitted to NYSDEC as part of the final report. Field and sampling procedures will be photo documented.

Upon completion of the field activities, a report will be prepared and submitted to NYSDEC that includes a summary of field and laboratory analytical data and presents the locations of field samples. Also included within the report will be estimates of soil and sediment contaminant volumes; any deviations from the work plan; a discussion of site geology and hydrogeology (based upon information from the adjacent Tract II parcel Remedial Investigation); records reviewed; documented interviews; and copies of database searches.

2. PROJECT ORGANIZATION AND SCHEDULE

2.1 PROJECT ORGANIZATION

The SVI evaluation at the Power City Warehouse site will be managed through an organized effort of scientific and engineering personnel and technical resources. These efforts will employ pre-approved field procedures, sampling techniques, and analytical methods to accomplish the project objectives. Effective program organization will accommodate these requirements while maintaining a manageable degree of control over these activities.

The project organization for the accomplishment of this effort is illustrated in Figure 2. The key technical management of this investigation will be accomplished by the project manger and assigned project team. Additional individuals will be made available, if warranted. Areas of work that require subcontracting are discussed in Section 3.

2.2 PROJECT MANAGEMENT

EA will provide oversight, coordination, health and safety, field support, and evaluation of analytical data. EA will also be responsible for evaluation of analytical test results, which will be submitted to NYSDEC. The EA staff members involved in this project are detailed below:

- ***Chris Canonica, P.E., EA Project Quality Assurance/Quality Control (QA/QC) Officer—***The QA/QC Officer will provide guidance on technical matters and review technical documents relating to the project. He will assess the effectiveness of the QA/QC program and recommend modifications when applicable. Additionally, the QA/QC Officer may delegate technical guidance to specially trained individuals under his direction.

- ***Robert Casey, EA Project Manager***—The Project Manager provides overall coordination and preparation of the project within EA. This includes coordination with NYSDEC and New York State Department of Health, budget control, subcontractor performance, implementation of the Quality Assurance Project Plan, and allocation of resources and staffing to implement both the QA/QC program and the site Health and Safety Plan.

- ***David Eck, P.E., EA Project QA/QC Coordinator—***The Project QA/QC Coordinator is responsible for project-specific supervision and monitoring of the QA/QC program. He will ensure that field personnel are familiar with and adhere to proper sampling procedures, field measurement techniques, sample identification, and chain-of-custody procedures. He will coordinate with the analytical laboratory for the receipt of samples and reporting of analytical results, and will recommend actions to correct deficiencies in the analytical protocol or sampling. Additionally, he will prepare QA/QC reports for management review.

- ***Dave Crandall, EA Site Manager***—The Site Manager will serve as the onsite contact person for field investigations and tests. He will be responsible for coordinating the field activities; including inspecting and replacing equipment, preparing daily and interim reports, scheduling sampling, and coordinating shipment and receipt of samples and containers.

The Program Health and Safety Officer is also an integral part of the project implementation team.

- ***Peter Garger, EA Program Health and Safety Officer***—The Program Health and Safety Officer will be responsible for the development, final technical review, and approval of the Health and Safety Plan. In addition, he will provide authorization, if warranted, to modify personal protective equipment requirements based on field conditions. He will also provide final review of all health and safety monitoring records and personal protective equipment changes to ensure compliance with the provisions of the Health and Safety Plan.

2.3 PROJECT SCHEDULE

The proposed schedule for completion of the site charaterization is presented on Figure 3. The schedule includes tasks up to the completion of the Data Usability and Summary Report associated with this Work Assignment. The schedule assumes field activities will begin on 11 September 2007. The schedule does not account for delays due to unforeseen site conditions (i.e., inclement weather).

Every attempt will be made to adhere to the schedule presented. Unexpected delays will be documented and reported to NYSDEC in a timely fashion. If the schedule needs to be modified, EA will contact NYSDEC for approval of the updated schedule.

3. SUBCONTRACTORS

Successful implementation of the field and reporting activities associated with this Work Assignment will require the following types of subcontractors:

- An offsite laboratory to analyze various environmental samples (soil)
- A data validator to perform a usability analysis of the laboratory data associated with the field samples.

In accordance with the NYSDEC draft *Handbook for Standby Consultant Contracts (for DER Standby Consultants)* (NYSDEC 2005)[1], EA established standby subcontracts for laboratory analyses, drilling, data validation, and surveying/engineering services. EA is distributing the laboratory analyses and data validation services to these standby subcontractors on a rotational basis as necessary to satisfy EA's M/WBE goals. Mitkem Corporation and Environmental Data Services, Inc. will be performing the laboratory analyses and data validation services, respectively, for the Power City Warehouse Work Assignment.

Based on the evaluation of current subcontractor standby rates, EA proposes the list of subcontractors provided below.

Activity	Subcontractor	Projected Contract Amount ($)
Analytical Laboratory Analysis (Soil)	Mitkem Corporation	$16,389
Data Validation	Environmental Data Services, Inc.	$1,350

[1] NYSDEC. 2005. draft *Handbook for Standby Consultant Contracts (for DER Standby Consultants)*. December.

4. MINORITY/WOMAN-OWNED BUSINESS ENTERPRISE-EQUAL EMPLOYMENT OPPORTUNITY UTILIZATION PLAN

It is understood that EA is required by NYSDEC to make Good Faith Efforts towards the realization of M/WBE-EEO goals established in the NYSDEC draft *Handbook for Standby Consultant Contracts*. Accordingly, the remainder of this section contains the Consultant/Contractor Detailed M/WBE-EEO Utilization Plan prepared for this Work Assignment. The M/WBE-EEO Utilization Plan identifies that EA's goals are to award 20 percent of the total contract costs to M/WBE firms. Specifically, the goals are to award 15 percent of the total contract costs to MBE firms ($7,310) and 5 percent of the total contract costs to WBE firms ($2,433). In addition, EA's goals are to have 10 percent of EA's workforce for the project be minority and 10 percent be female.

In accordance with the NYSDEC draft *Handbook for Standby Consultant Contracts*, EA established standby subcontracts with 10 New York State Department of Economic Development certified M/WBE firms that provide laboratory analyses, data validation, drilling and surveying/engineering services. EA proposes to use a standby M/WBE subcontractors (as identified below) to perform the laboratory analyses and data validation services required to conduct the site characterization at the Power City Warehouse site as detailed in Section 3 of this PMWP.

Subcontractor	Classification	Service to be Performed	Projected Contract Amount ($)	Award Date	Contract Start Date	Projected Completion Date
Mitkem Corporation	MBE	Laboratory Analysis (Soil)	$16,389	TBD	TBD	TBD
Environmental Data Services, Inc.	WBE	Data Validation	$1,350	TBD	TBD	TBD

Approximately 33.7 percent of the total contract cost is proposed to be performed by an MBE firm, which is higher than the Standby Contract MBE utilization goals. Approximately 2.8 percent of the total contract cost is proposed to be performed by a WBE firm. The WBE utilization goal is not anticipated to be met for this project. A total of 36.5 percent of the total project cost is anticipated to be awarded to M/WBE firms.

As identified in the M/WBE-EEO Utilization Plan, approximately 21.3 percent of EA's total contract hours for the SVI evaluation at the Power City Warehouse site are proposed to be worked by female employees (Section 4.1). However, none of EA's total contract hours are anticipated to be worked by minority employees.

4.1 CONSULTANT/CONTRACTOR DETAILED M/WBE-EEO UTILIZATION PLAN

The plan consists of four forms, which are included in the following pages.

CONSULTANT/CONTRACTOR DETAILED M/WBE-EEO UTILIZATION PLAN
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
(THE M/WBE-EEO GOALS MUST BE PLACED ON THE ENTIRE PROJECT COST)

Consultant Name:	EA Engineering, P.C.						
Contract Type/Number:	Stand By D004438 I/D Services			Contract Award Date:			
Address:	6712 Brooklawn Parkway	City:	Syracuse	State:	New York	Zip Code:	13211-2158
Project Owner Name:	New York State Department of Environmental Conservation			Project/Grant No.:			
Address:	625 Broadway	City:	Albany	NY		Zip Code:	12233
Authorized Representative:				Title:			
Authorized Signature:							
Power City Warehouse 9-32-131, EA Work Assignment D004438-11							

EEO AND M/WBE CONTRACT SUMMARY (MUNICIPAL FORCE ACCOUNT N/A)

	M/WBE CONTRACT SUMMARY	%	Amount		EEO CONTRACT SUMMARY	%	No./Emp.	Wk./Hrs.
1.	Total Dollar Value of the Project	100	$48,678.00	6.	Total for all Employees	100	10	422
2.	Total Dollar Value of the Prime Contract	100	$48,678.00	7.	Total Goal for Minority Employees	10	0	42.2
3.	MBE Goal/Amount	15	$7,301.70	8.	Total Goal for Female Employees	10	4	42.2
4.	WBE Goal/Amount	5	$2,433.90	9.	EEO Combined Totals	20	4	84.4
5.	MBE/WBE Combined Totals	20	$9,735.60					

Office of Minority & Women's 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	Projected MBE Contract Amount and Award Date	Description of Work MBE	Contract Schedule/Start Date(s)	Contract Payment Schedule	Project Completion Date
Name: **Mitkem Corporation** Address: **175 Metro Center Blvd.** City: **Warwick** State/Zip Code: **Rhode Island/02886** Telephone No.: **401-732-3400**	**$16,389.00** DATE: **TBD**	**Laboratory Analyses**			
Name: Address: City: State/Zip Code: Telephone No.:	DATE: **TBD**				
Name: Address: City: State/Zip Code: Telephone No.:	DATE: **TBD**				

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	Projected WBE Contract Amount and Award Date	Description of Work WBE	Contract Schedule/Start Date(s)	Contract Payment Schedule	Project Completion Date
Name: **Environmental Data Services, Inc.** Address: **6B Hills Avenue** City: **Concord** State/Zip Code: **New Hampshire/03301** Telephone No.: **603-226-0118**	**$1,350.00** DATE: **TBD**	**Data Validation**			
Name: Address: City: State/Zip Code: Telephone No.:	DATE: **TBD**				
Name: Address: City: State/Zip Code: Telephone No.:	DATE: **TBD**				

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**	**Male**	**Female**	**African-American**	**Asian**	**Native American**	**Hispanic**
Officials/ Managers	NSPE VI/V/IV	24	24	0	0	0	0	0
Professionals	NSPE VI/IV/III/II/I	380	231	149	0	0	0	0
Technicians		0	0	0	0	0	0	0
Sales Workers		0	0	0	0	0	0	0
Office/Clerical	NSPE IV/III/II/I	18	0	18	0	0	0	0
Craftsman		0	0	0	0	0	0	0
Laborers		0	0	0	0	0	0	0
Services/ Workers		0	0	0	0	0	0	0
Totals		422	255	167	0	0	0	0

Attachment A

Work Assignment
Budget Schedule 2.11

Schedule 2.11 (a)

Summary of Work Assignment Price

Work Assignment Number D004438-11

1)	Direct Salary Costs (Schedules 2.10(a) and 2.11(b))		$9,988
2)	Indirect Costs (Schedule 2.10(g))		$15,226
3)	Direct Non-Salary Costs (Schedule 2.10(b)(c)(d) and 2.11(c)(d))		$3,073
4)	Subcontract Costs		
	Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.10(e) and 2.11(e))		
	Name of Subcontractor	**Services To Be Performed**	**Subcontract Price**
	i)		*$0*
	ii)		*$0*
A)	**Total Cost-Plus-Fixed-Fee Subcontracts**		$0
	Unit Price Subcontracts (Schedule 2.10(f) and 2.11(f))		
	Name of Subcontractor	**Services To Be Performed**	**Subcontract Price**
	i) Mitkem Corporation	Laboratory Analyses	*$16,389*
	ii) Environmental Data Services, Inc.	Data validation	*$1,350*
B)	**Total Unit Price Subcontracts**		$17,739
5)	Subcontract Management Fee		$887
6)	Total Subcontract Costs (Lines 4A + 4B + 5)		$18,626
7)	Fixed Fee (Schedule 2.10(h))		$1,765
8)	Total Work Assignment Price (Lines 1 + 2 + 3 + 6 + 7)		$48,678

Engineer/Contract #	EA Engineering, P.C. D004438	**Date Prepared**	5-Jul-07
Project Name	Power City Warehouse		
Work Assignment No.	D004438-11		

Schedule 2.11 (b)
Direct Labor Hours Budgeted

Labor Classification	***IX***	***VIII***	***VII***	***VI***	***V***	***IV***	***III***	***II***	***I***	***Admin.***	***Total Direct Labor Hrs.***
2007 Average Salary Rates		64.15	54.14	48.80	44.55	35.55	25.84	21.83	17.11		
2008 Average Salary Rates		66.07	55.76	50.26	45.89	36.62	26.62	22.48	17.62		
Task 1 - 2007				10			16	40	24	8	98
Task 1 - 2008										0	0
Task 1 Total Hours	0	0	0	10	0	0	16	40	24	8	98
										Task 1 Direct Labor Total Cost	$2,387.36
Task 2 - 2007				8			24	92	30	0	154
Task 2 - 2008										0	0
Task 2 Total Hours	0	0	0	8	0	0	24	92	30	0	154
										Task 2 Direct Labor Total Cost	$3,532.22
Task 3 - 2007										0	0
Task 3 - 2008				6		10	32	80	32	10	170
Task 3 Total Hours	0	0	0	6	0	10	32	80	32	0	170
										Task 3 Direct Labor Total Costs	$4,068.13
Total Hours 2007	0	0	0	18	0	0	40	132	54	8	252
Total Hours 2008	0	0	0	6	0	10	32	80	32	10	170
										Total Hours fo the WA	422
Direct Labor Cost ($) 2007	$0.00	$0.00	$0.00	$878.40	$0.00	$0.00	$1,033.60	$2,881.56	$923.94	$202.08	$5,919.58
Direct Labor Cost ($) 2008	$0.00	$0.00	$0.00	$301.58	$0.00	$366.17	$851.69	$1,798.79	$563.95	$185.96	$4,068.13
										Total Direct Labor Cost $	$9,987.71

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

Engineer/Contract #	EA Engineering, P.C.	D004438	**Date Prepared**	5-Jul-07
Project Name	Power City Warehouse			
Work Assignment No.	D004438-11			

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.*
2007 Average Salary Rates*		64.15	54.14	48.80	44.55	35.55	25.84	21.83	17.11	
2008 Average Salary Rates*		66.07	55.76	50.26	45.89	36.62	26.62	22.48	17.62	
Task 1 - 2007						2		6		8
Task 1 - 2008										0
Task 1 Total Hours	0	0	0	0	0	2	0	6	0	8
									Task 1 Direct Administravtive Total Cost	$202.08
Task 2 - 2007										0
Task 2 - 2008										0
Task 2 Total Hours	0	0	0	0	0	0	0	0	0	0
									Task 2 Direct Administravtive Total Cost	$0.00
Task 3 - 2007										0
Task 3 - 2008								2	8	10
Task 3 Total Hours	0	0	0	0	0	0	0	2	8	0
									Task 3 Direct Adminstrative Total Costs	$185.96
Total Hours - 2007	0	0	0	0	0	2	0	6	0	8
Total Hours - 2008	0	0	0	0	0	0	0	2	8	10
									Total Hours for the WA	18
Direct Labor Cost ($) 2007	$0.00	$0.00	$0.00	$0.00	$0.00	$71.10	$0.00	$130.98	$0.00	$202.08
Direct Labor Cost ($) 2008	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$44.97	$140.99	$185.96
									Total Direct Adminstrative Labor Cost ($)	$388.04

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

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

1) Work Plan Budget Development
- Conflict of Interest Check
- Budget schedules & supporting documentation

2) Review work assignment (WA) progress
- Conduct progress reviews
- Prepare monthly project report
- Update WA progress schedule
- Prepare M/WBE Utilization Report

3) Contractor Application for Payment (CAP)
- Oversee and prepare monthly CAP

4) Program Management
- Prepare monthly cost control report
- Cost control reviews
- Staffing plans
- Manage subcontracts
- NSPE list update
- Equipment inventory

5) Miscellaneous
- Conduct Health and Safety Reviews
- Word processing and graphic artists
- Report editing

Contract/Project administration hours would not include:
- QA/QC reviews
- Technical oversight by management
- Develop subcontracts
- Work plan development
- Review of deliverables

Schedule 2.11 (c)

Direct Non-Salary Costs

Engineer: EA Engineering, P.C.
Contract I D004438
Project Name: Power City Warehouse
Work Assignment No.: D004438-11

Item		Maximum Reimbursement Rate	(Specify Unit)	Est. No. of Units	Total Estimated Cost ($)
A)	**In-house Costs**				
1)	8.5 x 11 print/copy (black and white)	$0.05	$/page	2,000	$100.00
2)	8.5 x 11 print/copy (color)	$0.75	$/page	175	$131.25
3)	Microcomputer GIS (Arc/info)	$6.25	$/hour	40	$250.00
4)	Microcomputer Graphics/CADD	$1.50	$/hour	8	$12.00
5)	Personal Protective Equipment (Level C)	$27.00	$/man-day	0	$0.00
6)	Personal Protective Equipment (Level D)	$13.00	$/man-day	8	$104.00
7)	Equipment Purchased Under Contract	$0.00	Lump Sum	1	$0.00
8)	Consultant Owned Equipment	$104.92	Lump Sum	1	$104.92
9)	Vendor Rented Equipment	$180.00	Lump Sum	1	$180.00
10)	Site Dedicated Equipment	$0.00	Lump Sum	1	$0.00
11)	Consumable Supplies	$90.00	Lump Sum	1	$90.00
12)	Shipping - Submittals	$50.00	each	6	$300.00
13)	Shipping - Samples	$50.00	each	6	$300.00
				In-house Costs Total	$1,572.17
B)	**Miscellaneous**				
	Travel:				
	Per diem: Niagara County (October 1 - June 30)	$17.00	day	7	$119.00
	Per diem: Niagara County (October 1 - June 30)	$44.00	day	2	$88.00
	Lodging: Niagara County (October 1 - June 30)	$60.00	night	2	$120.00
	Local Mileage:	$0.485	mile	1400	$679.00
	Environmental Data Report	$495.000	each	1	$495.00
				Miscellaneous Total	$1,501.00
	Total Direct Non-Salary Costs				**$3,073.17**

*See Schedule 2.10(b) for rates.

Work Assignment No. D004438-11

Schedule 2.11(d) 2

Maximum Reimbursement Rates for Consultant Owned Equipment

Item	Purchase Price ($) x 85%	Usage Rate* ($/Unit of Time)	Capital Recovery** Rate ($/Unit of Time)	O&M Rate ($/Unit of Time)	Est. Usage (Unit of Time)	Est. Usage Cost ($) (Col. 3 x 6)
Task 2						
Generator 3,000 - 5,000 watts		$45.00 day			2	$90.00
Laptop Computer		$3.73 hour			4	$14.92
					TOTAL	**$104.92**

Work Assignment No. D004438-11

Schedule 2.11(d) 3

Maximum Reimbursement Rates for Vendor-Rented Equipment

Item	Reimbursement Rate ($)	Unit of Time	Est. Usage (Unit of Time)	Est. Usage Cost ($) (Col. 2 x 3)
Task 2				
MiniRAE 2000 PGM-7600 professional PID Monitor with 10.6 eV lamp	$75.00	day	2	$150.00
Hand Auger Kit	$15.00	day	2	$30.00
			TOTAL	**$180.00**

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

Work Assignment No. D004438-11

Schedule 2.11(d) 5

Consumable Supplies

Item	Estimated Quantity	Unit Cost ($)	Total Budgeted Cost (Col . 2 x 3) ($)
Task 2			
Logbook	1	$18.00	$18.00
Nitrile Gloves	2	$20.00	$40.00
Low Value Equipment (field hours)	40	$0.80	$32.00
		TOTAL	**$90.00**

Schedule 2.11(f)

Unit Price Subcontracts
Work Assignment Number D004438-11

Name of Subcontractor	**Services to be Performed**	**Subcontract Price**	**Management Fee**
Mitkem Corporation	Laboratory Analyses	$16,389.00	$819.45

Item	**Max. Reimbursement Rate (Specify Unit)**	**Est. No. of Units**	**Total Est. Cost**
Task 2			
Analysis of non-aqueous soil samples by EPA Method 8260B (non-aqueous)	$77.00 each	17	$1,309.00
Analysis of soil samples by EPA Method 8270C (non-aqueous)	$160.00 each	38	$6,080.00
Analysis of soil samples by EPA Method 6010 (non-aqueous)	$150.00 each	38	$5,700.00
Analysis of soil samples by RCRA TCLP Metals Only (non-aqueous)	$110.00 each	30	$3,300.00
Subtotal Subcontract Price			$16,389.00
Subcontract Management Fee			$819.45
TOTAL			$17,208.45

Schedule 2.11(f)

Unit Price Subcontracts

Work Assignment Number D004438-11

Name of Subcontractor	**Services to be Performed**	**Subcontract Price**	**Management Fee**
Environmental Data Services, Inc.	Data validation	$1,350.00	$67.50

Item	**Max. Reimbursement Rate (Specify Unit)**	**Est. No. of Units**	**Total Est. Cost**
Task 3			
Validation of non-aqueous samples analyzed for VOC by EPA Method 8260	$18.00 each	11	$198.00
Validation of non-aqueous samples analyzed for SVOC by EPA Method 8270	$18.00 each	32	$576.00
Validation of non-aqueous samples analyzed for TAL Metals by EPA Method 6010	$18.00 each	32	$576.00
Subtotal Subcontract Price			$1,350.00
Subcontract Management Fee			$67.50
TOTAL			$1,417.50

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Engineer:	EA Engineering, P.C.	**Page:**	1 of 1
Contract No:	D004438	**Date Prepared:**	5-Jul-07
Project Name:	Power City Warehouse	**Billing Period:**	
Work Assignment No.:	D004438	**Invoice No.**	
Task#/Name:	Summary		
Complete:			

	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				$0.00		$9,987.71		($9,987.71)
2	Indirect Costs				$0.00		$15,226.26		($15,226.26)
3	Subtotal Direct Salary Costs and Indirect Costs				$0.00		$25,213.97		($25,213.97)
4	Travel				$0.00		$1,501.00		($1,501.00)
5	Other Non-Salary Costs				$0.00		$1,572.17		($1,572.17)
6	Subtotal Direct Non-Salary Costs				$0.00		$3,073.17		($3,073.17)
7	Subcontractors				$0.00		$18,625.95		($18,625.95)
8	Total WA Cost				$0.00		$46,913.09		($46,913.09)
9	Fixed Fee 7%				$0.00		$1,764.98		($1,764.98)
10	Total WA Price				$0.00		$48,678.07		($48,678.07)

Program Manager(Engineer) _____ Date: _____

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Engineer: EA Engineering, P.C.
Contract No: D004438
Project Name: Power City Warehouse
Work Assignment No.: D004438-11
Task#/Name: Task 1 - Work Plan Development
Complete:

Page: 1 of 1
Date Prepared: 5-Jul-07
Billing Period:
Invoice No.

	Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid To Date*	*C* *Total Disallowed To Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs To Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1	Direct Salary Costs				$0.00		$2,387.36		($2,387.36)
2	Indirect Costs				$0.00		$3,639.53		($3,639.53)
3	Subtotal Direct Salary Costs and Indirect Costs				$0.00		$6,026.89		($6,026.89)
4	Travel				$0.00		$885.50		($885.50)
5	Other Non-Salary Costs				$0.00		$313.50		($313.50)
6	Subtotal Direct Non-Salary Costs				$0.00		$1,199.00		($1,199.00)
7	Subcontractors				$0.00		$0.00		$0.00
8	Total WA Cost				$0.00		$7,225.89		($7,225.89)
9	Fixed Fee 7%				$0.00		$421.88		($421.88)
10	Total WA Price				$0.00		$7,647.77		($7,647.77)

Program Manager(Engineer) _____ Date: _____

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Engineer:	EA Engineering, P.C.	**Page:**	1 of 1
Contract No:	D004438	**Date Prepared:**	5-Jul-07
Project Name:	Power City Warehouse	**Billing Period:**	
Work Assignment No.:	D004438-11	**Invoice No.**	
Task#/Name:	Task 2 - Field Activities		
Complete:			

	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				$0.00		$3,532.22		($3,532.22)
2	Indirect Costs				$0.00		$5,384.87		($5,384.87)
3	Subtotal Direct Salary Costs and Indirect Costs				$0.00		$8,917.09		($8,917.09)
4	Travel				$0.00		$615.50		($615.50)
5	Other Non-Salary Costs				$0.00		$781.67		($781.67)
6	Subtotal Direct Non-Salary Costs				$0.00		$1,397.17		($1,397.17)
7	Subcontractors				$0.00		$17,208.45		($17,208.45)
8	Total WA Cost				$0.00		$27,522.71		($27,522.71)
9	Fixed Fee 7%				$0.00		$624.20		($624.20)
10	Total WA Price				$0.00		$28,146.91		($28,146.91)

Program Manager(Engineer) _____ Date: _____

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Engineer:	EA Engineering, P.C.	**Page:**	1 of 1
Contract No:	D004438	**Date Prepared:**	5-Jul-07
Project Name:	Power City Warehouse	**Billing Period:**	
Work Assignment No.:	D004438-11	**Invoice No.**	
Task#/Name:	Task 3 - Summary Reports		
Complete:			

	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				$0.00		$4,068.13		($4,068.13)
2	Indirect Costs				$0.00		$6,201.86		($6,201.86)
3	Subtotal Direct Salary Costs and Indirect Costs				$0.00		$10,269.99		($10,269.99)
4	Travel				$0.00		$0.00		$0.00
5	Other Non-Salary Costs				$0.00		$477.00		($477.00)
6	Subtotal Direct Non-Salary Costs				$0.00		$477.00		($477.00)
7	Subcontractors				$0.00		$1,417.50		($1,417.50)
8	Total WA Cost				$0.00		$12,164.49		($12,164.49)
9	Fixed Fee 7%				$0.00		$718.90		($718.90)
10	Total WA Price				$0.00		$12,883.39		($12,883.39)

Program Manager(Engineer) _____ Date: _____

SCHEDULE 2.11(g) - Supplemental

Cost Control Report For Subcontracts

Engineer:	EA Engineering, P.C.	**Page:**	1 of 1
Contract No:	D004438	**Date Prepared:**	5-Jul-07
Project Name:	Power City Warehouse	**Billing Period:**	
Work Assignment No.:	D004438-11	**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			$0.00	$16,389.00	$819.45		$0.00
2 Environmental Data Services, Inc.			$0.00	$1,350.00	$67.50		$0.00
3 TOTALS	$0.00	$0.00	$0.00	$17,739.00	$886.95		$0.00

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.

SCHEDULE 2.11(h)

MONTHLY COST CONTROL REPORT
SUMMARY OF LABOR HOURS
Number of Direct Labor Hours Expended to Date/Estimated Number of Direct Labor Hours to Completion

Engineer:	EA Engineering, P.C.	**Date Prepared:**	5-Jul-07
Contract No:	D004438	**Billing Period:**	
Project Name:	Power City Warehouse	**Invoice No.:**	
Work Assignment No.:	D004438-11		

NSPE Labor Classification	**IX Exp/Est***		**VIII Exp/Est**		**VII Exp/Est**		**VI Exp/Est**		**V Exp/Est**		**IV Exp/Est**		**III Exp/Est**		**II Exp/Est**		**I Exp/Est**		**Total No. of Direct Labor Hours Exp/Est**	
Task 1	0.0		0.0		0.0		10.0		0.0		2.0		16.0		46.0		24.0		98.0	
Task 2	0.0		0.0		0.0		8.0		0.0		0.0		24.0		92.0		30.0		154.0	
Task 3	0.0		0.0		0.0		6.0		0.0		10.0		32.0		82.0		40.0		170.0	
																			0.0	
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Total Hours	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	12.0	0.0	72.0	0.0	220.0	0.0	94.0	0.0	422.0

* Expended/Estimated