

**FIRST AMENDMENT  
PHASE I ENVIRONMENTAL SERVICES AND PHASE II ENVIRONMENTAL SERVICES  
GATEWAY HARBOR  
PROJECT NO.: 11110  
CONTRACT NUMBER PS 1731**

**THIS FIRST AMENDMENT AGREEMENT** is made and entered into as of the 4th day of March, 2010, and shall be deemed and taken as forming a part of the Agreement for Phase I Environmental Services and Phase II Environmental Services for Gateway Harbor ("Agreement by and between the **PUBLIC BUILDING COMMISSION OF CHICAGO**, a municipal corporation of the State of Illinois ("Commission") and **AECOM, INC.** ("Consultant") dated October 14, 2009 with the like operation and effect as if the same were incorporated therein.

**WITNESSETH:**

**WHEREAS**, the Commission and Consultant have heretofore entered into an Agreement dated the 14th day of October, 2009, wherein the Consultant is to provide Phase I Environmental Services and Phase II Environmental Services for the City of Chicago; and

**WHEREAS**, the Commission and Consultant now desire to amend the Agreement to include additional Services performed and associated compensation due to Consultant;

**NOW THEREFORE**, in consideration of the provisions and conditions set forth in the Agreement and herein, the parties hereto mutually agree to amend the Agreement as hereinafter set forth.

It is agreed by and between the parties hereto that the sole modification of, changes in, and amendments to the Agreement pursuant to this Amendment are as follows:

**TERMS**

**1. Recitals**

**THE ABOVE RECITALS ARE EXPRESSLY INCORPORATED IN AND MADE A PART OF THE AMENDMENT AGREEMENT AS THOUGH FULLY SET FORTH HEREIN.**

**2. Schedule A Scope of Services** is amended to include additional services required for Gateway Harbor to perform Phase II Environmental Services. The scope for this service is detailed in Attachment A to this Amendment 1.

**3. Schedule C Compensation of the Consultant** is revised as follows:

**C.1** The Consultant shall be paid the not to exceed amount of \$15,180.00 for the additional services outlined in Attachment B of this Amendment 1.

The Not to Exceed Fee is increased to a total of \$95,180.00.

Execution of this Amendment by the Consultant is duly authorized by the Consultant, and the signature(s) of each person signing on behalf of the Consultant have been made with the complete and full authority to commit the Consultant to all terms and conditions of this Amendment.

All capitalized terms not defined herein shall have the meaning ascribed to them in the Agreement. Except as and to the extent that the terms of the Agreement are amended and modified herein, all terms of the Agreement shall remain in force and effect.

The terms of the Agreement remain and full force and effect except as modified in this Amendment.

*(Signature Page follows)*

IN WITNESS WHEREOF, the parties hereto have agreed and executed this Amendment No. 1.

**PUBLIC BUILDING COMMISSION  
OF CHICAGO**

BY: [Signature]  
Erin Lavin Cabonargi  
Executive Director

Date: 4.29.10

ATTEST:  
BY: [Signature]  
Edgwick Johnson  
Secretary

Date: 4-30-2010

**AECOM, INC.**

By: [Signature]  
Vice President

Date: 3/25/10

**AFFIX CORPORATE**

**SEAL, IF ANY, HERE**

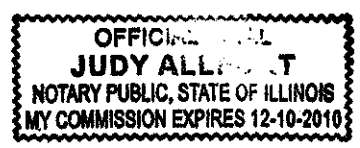
County of: Cook  
State of: Illinois

Subscribed and sworn to before me by Stephen L. Nalefski and \_\_\_\_\_  
on behalf of Consultant this 25<sup>th</sup> day of MARCH, 2010.

[Signature]  
Notary Public

My Commission expires:

**(SEAL OF NOTARY)**



ja 3/25/10

Approved as to form and legality

[Signature]  
Neal & Leroy, LLC

Date: 4-26-10

**ATTACHMENT A  
SCOPE OF WORK**

**PHASE I ENVIRONMENTAL SERVICES AND PHASE II ENVIRONMENTAL SERVICES  
GATEWAY HARBOR  
PROJECT NO.: 11110  
CONTRACT NUMBER PS 1731**

**(SCOPE OF WORK FOLLOWS THIS PAGE)**

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AECOM  
750 Corporate Woods Pkwy  
Vernon Hills, IL 60061

847-279-2500 tel  
847-279-2510 fax

December 29, 2009

Ms. LeeAnn Tomas-Foster  
Deputy Director for Environment  
Public Building Commission  
50 W. Washington, Room 200  
Chicago, Illinois 60602

**Subject: Change Order for Waste Characterization Services for the Gateway Harbor Project, Chicago, Illinois - AECOM Project No. 60141222**

Dear Ms. Tomas-Foster:

In response to your request, AECOM has prepared this change order for the Gateway Harbor Project in Chicago, Illinois. Plans are being made to construct a new harbor south of Navy Pier. As part of the project, new utilities and road cuts are planned on the landside portion of the project. To characterize the fill in the areas of proposed excavations, AECOM has prepared the proposed scope of work detailed below. This change order includes our scope of work, a cost estimate, and an estimated project schedule.

#### **Scope of Work**

AECOM proposes to perform the following tasks:

- Task 1: Prefield Activities
- Task 2: Soil Sampling
- Task 3: Chemical Analysis
- Task 4: Data Evaluation and Report Preparation

Each task is described in detail in the following sections.

#### **Task 1: Prefield Activities**

Prefield activities will include the preparation of a site-specific health and safety plan (HASP) and utility clearance as summarized below.

#### **Health and Safety Plan**

AECOM will prepare a site specific Health and Safety Plan in accordance with the Occupational Safety and Health Administration (OSHA) before beginning fieldwork. This HASP will describe possible hazards and the procedures to be followed to safeguard worker health and safety during field activities at the Site.

AECOM will also contact DIGGER, a public utility location service, to clear public utility lines at the Site prior to the start of fieldwork. Any available plans of existing subsurface structures (i.e. utilities) should be provided to AECOM prior to our field work. Our budget does not include costs to repair underground utilities or other improvements.

### Underground Utility Clearance

AECOM will perform underground utility clearance services within the areas where environmental soil borings are to be advanced at the Site. Data collection will be limited to open, accessible areas. Data collection will not occur where surface obstructions such as parked vehicles, vegetation, or buildings exist at the time of the survey. AECOM will employ two electromagnetic methods, (1) a high-sensitivity metal detection (Geonics EM-61) and (2) a buried metal and pipe and cable locator (Fisher TW-6 or Radio Detection RD4000), in an effort to non-destructively assess for possible presence of underground utility lines. AECOM will field locate buried utility lines or other subsurface obstructions if mapped and identified during the geophysical survey.

#### *Methods & Data Collection*

As mentioned, AECOM will employ high-sensitivity metal detection (EM-61) and a pipe and cable locator to meet the project objective.

The EM-61 instrument is essentially a sophisticated metal detector that uses the principle of time-domain electromagnetic induction to sense buried ferrous and non-ferrous targets to a depth of approximately 8 ft below ground surface (bgs). The instrument design consists of two, vertically separated coils having dimension of 1 x 0.5 m. Buried metallic targets are sensed once the vertical projection of the coils are lowered over the target location. The value of the EM-61 instrument is it maintains sensitivity to detecting subsurface metallic targets, but is generally insensitive to sources of surface metallic interference such as vehicles or buildings from a distance of approximately 5 ft or more away from the instrument. This allows the EM-61 to be effective as a metal detector in urbanized settings.

In addition to the EM-61 instrumentation, AECOM will employ a metal detector/pipe and cable locator to verify, where possible, geophysical anomalies, or locate buried utilities by actively inducing a current along or passively searching for metallic pipelines or conduit within the area of investigation.

EM-61 data will be collected along 5-ft spaced profiles within the investigation area (estimated up to 2 acres). Along profile lines, EM-61 data point collection will be spaced approximately 2 ft apart. EM-61 data collection will be synchronized to GPS instrumentation for real-time positioning to allow for direct output of (x,y,z) data. In the event the GPS signal is obscured by tree canopy or structures on-site, AECOM will setup a grid and collect point data on a 5 x 2.5 ft pattern. EM-61 instrumentation records digital data in real-time fashion allowing for computer visualization of the output and for reporting purposes. EM-61 response will be computer contoured and interpretations will focus on metal detection anomalies and lateral extent of these identified features.

#### *Data Interpretation & Reporting*

Data interpretation will be performed in the field the same day the geophysical surveying is completed. AECOM will identify geophysical anomalies to include marking out possible utility alignments if interpreted from the data.

#### **Task 2: Soil Sampling**

AECOM proposes to advance approximately 30 soil borings to a depth of approximately 4 feet below ground surface (bgs). The soil borings will be advanced at approximate 75 foot intervals along the proposed utility center lines using a track-mounted Geoprobe rig. The actual boring locations will be dependent on the access of the sampling equipment and the locations of the existing utilities identified during Task 1.

Soil samples will be collected continuously to the termination depth in each boring using a 4-foot long Geoprobe sampler. Following completion of the sampling activities, the probe holes will be backfilled with granular bentonite.

Soil samples will be screened in the field for organic vapors using a photo-ionization detector (PID). Soil samples will also be screened for evidence of staining and chemical odors. One soil sample per boring will be retained for chemical analysis.

### Task 3: Chemical Analysis

AECOM will retain a soil sample from each probe hole for chemical analysis. The soil samples will be composited into one waste character sample. If unusual staining or odors are observed on soils recovered from the borings, a second waste characterization sample will be composited from the soils that exhibit signs of potential impacts. Samples will be collected in laboratory supplied jars and placed in a chilled cooler pending delivery to a subcontract analytical laboratory. AECOM will follow standard sample collection, preparation, handling and shipping protocols, and will maintain the proper chain-of-custody records throughout the sample handling process.

The composite samples will be analyzed for the CID Daramend Analytical Parameters detailed on the attached list. The cost herein assumes that a Generators Certification can be provided that states that pesticides have not been used at the property. For budgeting purposes we have assumed that the soil analysis will be performed on an expedited three day laboratory turnaround basis.

### Task 4: Data Evaluation and Report Preparation

Following completion of the fieldwork and receipt of the laboratory results, AECOM will provide the analytical results along with a summary letter. If the fill soils are classified as anything other than special or non-special waste, then AECOM will prepare and/or modify existing specifications for the management of the spoils excavated during the proposed project.

### Fixed-Price Budget

AECOM will provide services on a fixed fee basis in accordance with our current agreement with the Public Building Commission (PS 1731 dated November 5, 2009). We have estimated the time requirements and associated costs for the proposed scope of work based on the level of effort deemed appropriate for the investigation. Any necessary modifications to the proposed scope of work will be discussed with you as they become evident. The total authorized budget will not be exceeded without prior authorization.

<b>Task 1: Prefield Activities</b>		<b>\$ 2,700</b>
<b>Task 2: Soil Sampling</b>		
Drilling	\$2,000	
AECOM Staff and Equipment Rental	<u>\$1,500</u>	
<b>Task 3: Chemical Analysis</b>		<b>\$ 3,500</b>
CID's Daramend Parameters (2 samples @ \$2,370/sample)	\$ 4,740	
AECOM Staff	<u>740</u>	
<b>Task 4: Data Interpretation and Report Preparation</b>		<b>\$ 5,480</b>
AECOM Staff	\$2,500	
Graphics	600	
Expenses and Supplies	<u>400</u>	
	<b>Budget:</b>	<b><u>\$ 3,500</u></b>
		<b>\$15,180</b>

City of Chicago, Public Building Commission  
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Approval of this change order will bring the new project budget to \$95,180.

**Project Assumptions**

Site access, including snow removal, is the responsibility of the property owner or property owner representative.

Cost estimate is for the field work to be completed in one, 8 hr field day under a single mobilization-demobilization. AECOM will provide a field geophysicist who will lead the data collection and interpretation and a staff-level geologist or environmental scientist to assist with data collection.

Field work will be performed in OSHA Level-D PPE.

The cost estimate assumes GPS signal can be continuously obtained over the Site. Additional charges will apply in the event manual surveying of the geophysical data is required because of lack of GPS signal at this site (see item below for labor and equipment fee schedule).

Delays to performance of the utility clearance survey due to Site conditions or circumstances not under the control of AECOM will be charged time-and-materials to the project based on a \$180/hr rate for two-person utility locating crew and a \$450/day locating equipment usage rate plus expenses.

**Work Schedule**

We are generally available to begin field work on projects such as this within five to 10 days of receipt of your written authorization to proceed. We expect that our field operations will require one day for completion. The costs estimate herein assumes that access to the Site will be made available to AECOM during normal business hours. The analytical testing will require four days. We can provide a verbal report of our findings upon receipt of the analytical report. Our final written report will follow the analytical report by approximately 3 to 5 work days.

**Terms and Conditions**

The investigation will be conducted under the current Terms and General Conditions between AECOM and the Public Building Commission of Chicago (PS 1731), which are expressly incorporated into, and are an integral part of this change order. Please indicate your acceptance of this change order by having an authorized representative of your firm execute one copy and return it to the undersigned.

Sincerely,

Steve T. Newlin  
Senior Project Geologist

John L. Petruccione, PG  
Department Manager

Attachments: Daramend Parameter List

**ATTACHMENT B  
SCHEDULE OF COST**

**PHASE I ENVIRONMENTAL SERVICES AND PHASE II ENVIRONMENTAL SERVICES  
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The Commission shall pay the Consultant for the satisfactory performance of the Services a **Not to Exceed Fee ("Fee") of \$15,180.00** for all work included in Attachment A.