

**AECOM Environment**  
303 East Wacker Drive, Suite 900, Chicago, IL 60601  
T 312.373.7700 F 312.938.1109 www.aecom.com

**AECOM**

September 30, 2011

US EPA RECORDS CENTER REGION 5



442984

Burberry Limited  
c/o Watershed Partners, Inc.  
1406 West Lake Street, Suite 201  
Minneapolis, MN 55408  
Attn: Mr. Steven Nulsen

RE: Radiological Survey of Subsurface Geotechnical Investigation  
Permit No.: 168651214  
Permit Address: 641 North Michigan Avenue  
AECOM Project No. 60216198

Dear Mr. Nulsen:

Pursuant to conditions specified in a permit (see attached) issued by the City of Chicago, radiation monitoring was required to be performed at the above referenced site. AECOM, Inc. (AECOM) provided the required radiation surveillance, between the days of July 11-18, 2011, for the drilling of 4 vertical geotechnical borings (B-101, B-102, B-107 and B-111) and 3 horizontal geotechnical borings (H-1, H-2 and H-3). Three vertical borings completed on the exterior of the existing building (B-102, B-107 and B-111) were performed using a D-50 drill rig equipped with a continuous flight auger to depths of approximately 100-feet below ground surface (bgs), while the 4<sup>th</sup> vertical boring (B-101) was performed on the interior of the existing building with a hand auger to a depth of 14.5-feet bgs. Three horizontal borings (H-1, H-2 and H-3) were performed along the east basement wall and advanced via core barrel and split-spoon to depths ranging from 6.5-feet to 8-feet horizontally.

Surveying was performed on all soils characterized as urban fill that were displaced to the surface during the process of drilling at the 7 boring locations where geotechnical investigations were performed. Urban fill thicknesses encountered during the vertical drilling investigation ranged between approximately 8-feet and 9.5-feet bgs. The monitoring revealed no indication of soils above the specified clean-up threshold established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA threshold for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g total radium (Ra-226 + Ra-228)). Gamma radiation count measurements for the project were made using Ludlum Model 2221 survey meter and an unshielded 2 x 2 Nal probe (Model 44-10). For the instrument used, the gamma count indicative of the 7.1 pCi/g threshold was 18,617 counts per minute (cpm) unshielded (6,707 cpm shielded). The unshielded field gamma measurements within the spoil materials generated during the drilling process did not exceed the respective threshold values previously stated and ranged from background levels of 4,000 cpm to a maximum of about 8,000 cpm. Thus, there was no indication of the presence of radiologically-contaminated material and/or an exceedance of the USEPA clean-up threshold of 7.1 pCi/g total radium.

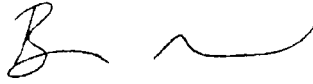
Finally, as part of the permit conditions, this letter has been forwarded to:

Chicago Department of Environment  
Attention: Ms. Rahmat Begum  
30 North LaSalle Street, 25<sup>th</sup> Floor  
Chicago, Illinois 60602

Radiological Survey of Subsurface Geotechnical Investigation  
Permit No.: 168651214  
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Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Brian R. Schmidt  
Project Scientist II



Steven C. Kornder, Ph.D.  
Senior Project Geoscientist

cc: Rahmat Begum, Chicago Department of Environment  
Verneta Simon, USEPA

Attachments: Permit  
Sketch



CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT  
FORM NO. DOE.ROW.03

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Environment as potentially having environmental contamination on the site and adjacent right-of-way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

City of Chicago  
Richard M. Daley, Mayor

Department of Environment

Suzanne Melec-McKenna  
Commissioner

2nd Floor  
30 North LaSalle Street  
Chicago, Illinois 60602-2575  
(312) 744-7606 (Voice)  
(312) 744-6451 (FAX)  
(312) 744-3586 (TTY)

http://www.cityofchicago.org

A file containing detailed information regarding the aforementioned environmental contamination is available for review at the Department of Environment at 33 N. LaSalle St., Suite 11-120, Chicago, Illinois 60602 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 744-7606 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued if the ground is exposed or excavated. Please note that for some locations, additional health and safety procedures may be required by law.

Please complete the following:

I have reviewed and understand the documents maintained by the Department of Environment, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the Department of Environment and the United States Environmental Protection Agency within two (2) weeks of their completion. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Permit No. 168651214  
Date 7/5/11  
158 E ONTARIO  
644 N. Michigan  
Site Address

Applicant Name (print) STRATA EARTH SERVICES, LLC

Signature Chuck Lindler Date 7/5/11

Company STRATA EARTH SERVICES, LLC

Company Address / Phone No. 811 E. PARK AVE LIBERTYVILLE IL 60048  
847-968-4863

Check if City Department Work  Department Name \_\_\_\_\_

General / Prime Contractor AECOM INC.  
*Include subcontractor information if applicable*

Address 750 Coopers Woods Parkway, Vernon Hills, IL 60061

Phone No. 847-279-2500

Safety Officer / Phone No. Steve Koerner  
Ryan Rusk - 847-279-2428

Radiation Contractor / Phone No. (if applicable) AECOM INC. 847-279-2500  
Steve Koerner

Department of Environment Approval / Date Rahmatunisa Begum 7/5/2011

Work Location (Describe exact site location and attach map)

Alley & Side work

Nature of Work

Soil Borings

Expected Start Date

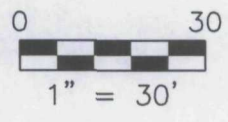
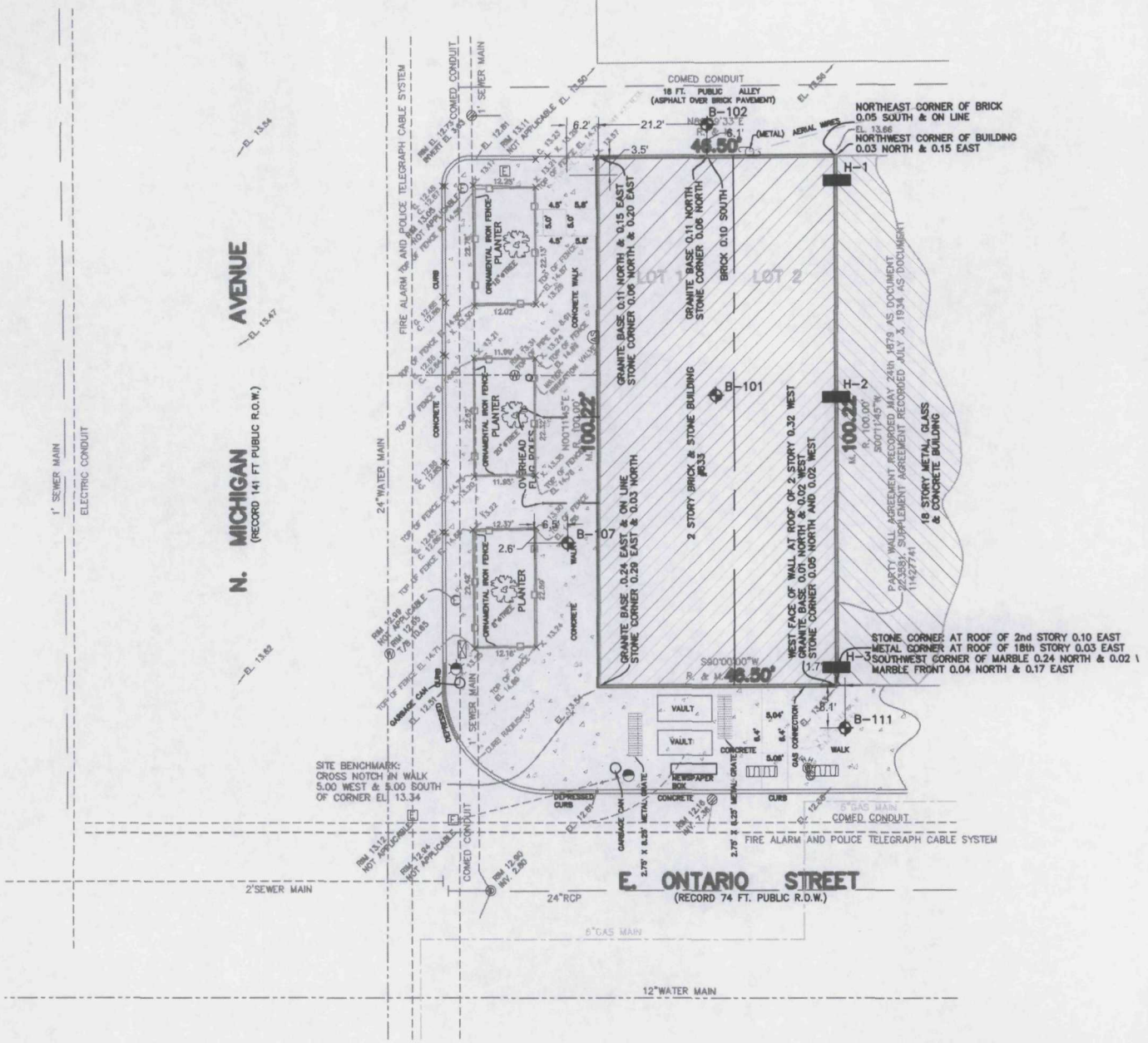
7/7/11

Please return this completed form to the City of Chicago Department of Transportation at 30 N. LaSalle St., Room 1101, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday).



For DOE Use Only



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**LEGEND:**

-  B-1 VERTICAL SOIL BORING
-  H-1 HORIZONTAL SOIL BORING

**NOTE:**  
PLAT OF SURVEY PROVIDED BY OWNER



**SOIL BORING LOCATION DIAGRAM**

BURBERRY LIMITED  
633 N. MICHIGAN AVE.  
CHICAGO, IL. 60611

Drawn :	KMK 07/25/2011
Checked:	RR 07/25/2011
Approved:	RR 07/25/2011
PROJECT NUMBER	60216198
FIGURE NUMBER	SBLD