AECOM

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October 5, 2011

US EPA RECORDS CENTER REGION 5
442985

Mr. Narendra Prasad
People's Gas Light & Coke Co.
Environmental Services Department
130 East Randolph, 22nd Floor
Chicago, IL 60601

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: 175198398
Permit Address: 600 East Grand Avenue
AECOM Project No. 60157647

Dear Mr. Prasad:

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 Technical Services, Inc. (AECOM) provided the required radiation surveillance on October 5, 2011 for the excavation of a trench for installation of 5 magnesium anodes.

Surveying was performed for the soil removed from a 3 by 6-foot excavation to a depth of 5-feet required for installation of the 5 magnesium anodes. 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 NaI probe (Model 44-10).

For the instrument used, the gamma count indicative of the 7.1 pCi/g threshold was 18,771 counts per minute (cpm) unshielded (7,122 cpm shielded). The field gamma background for the area was approximately 6,000 cpm. The field gamma measurements within the excavation and the spoil materials generated during the excavation process did not exceed the respective threshold values previously stated and ranged from a minimum of 7,100 cpm to a maximum of 10,300 cpm. Thus, there was no indication of the presence of radiologically-impacted material and/or an exceedance of the USEPA cleanup 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, 25th Floor
Chicago, Illinois 60602

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

K:\PROJECTS\60157647\In_Progress\600 E Grand\CDOE_Letter_600 East Grand Ave.doc

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.

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 LL-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. 175198398

Date 9/21/11

Site Address

600 E. Grand

Work Location (Describe exact site location and attach map)

Parkway

Nature of Work

Sewer Work

Expected Start Date

9/26/11

Applicant Name (print) Maria Oliver

Signature Maria Oliver Date 9/21/11

Company People's Gas

Company Address / Phone No. 130 E. Randolph (312) 240-4492

Check if City Department Work ☐ Department Name _____

General / Prime Contractor Robert Ring

Include subcontractor information if applicable

Address 130 E. Randolph

Phone No. (773) 542-7879

Safety Officer / Phone No. Jake Willen (773) 542-7838

Radiation Contractor / Phone No. (if applicable) AECOM - Steve Kornoker (847) 270-2448

Department of Environment Approval / Date Rahmatunsa Begum 9/21/2011

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).

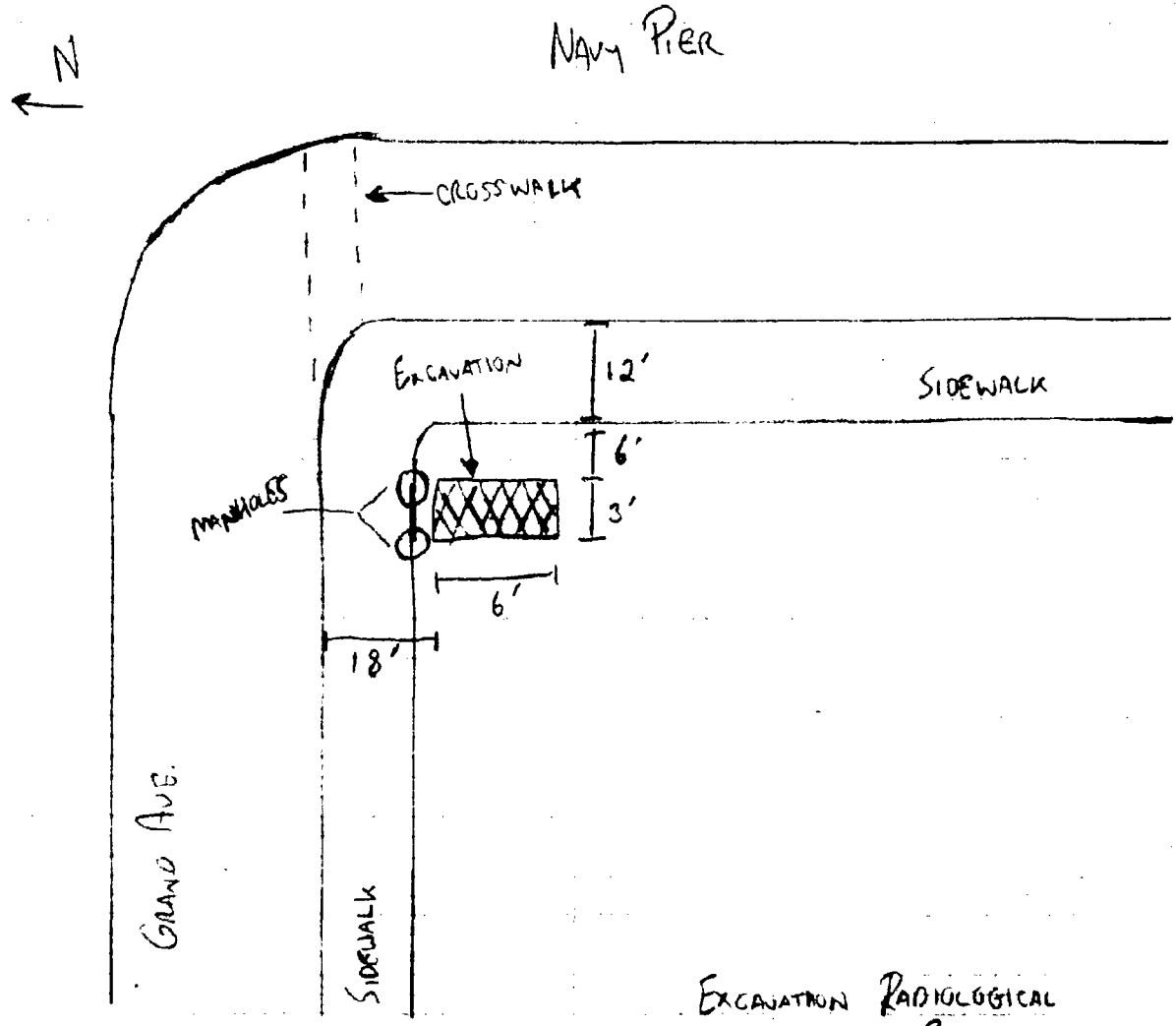
For DOE Use Only

Revised June 18, 2010

[redacted] AECOM

Calculation Sheet

Project				Subject		
Intersys - 600 E. Grand Ave				Radiological Soil Monitoring		
Originated By	Date	Checked By	Date	[redacted] Job No.	Scale	Sheet No. 1 of 1
BRS	10/5/11	BRS	10/5/11		N/A	



Excavation Radiological Monitoring Results

Depth	Counts Per Minute
0-18"	9,500 cpm
18-36"	9,900 cpm
36-54"	10,300 cpm
54-72"	10,100 cpm