



AECOM
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Chicago, Illinois 60601

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December 8, 2011

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.: 180573505
Permit Address: 300-358 East South Water Street
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 November 16, 2011 for three excavations for installation of anodes on existing gas service piping.

Surveying was performed for the soil removed from 3 patches of 5 by 5-foot excavation to a depth of 5-feet required for installation of the anodes on existing gas service piping. 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 measured at approximately 4,500 cpm unshielded. 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 5,500 cpm to a maximum of 12,600 cpm unshielded. The value of 12,600 cpm was measured within and at the base of the excavation with an unshielded probe. As such, this reading was biased high because of the depth and of the trench and unshielded probe. Measurements for the same soil, once the shield was added, were approximately 4,500 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.

As part of the permit conditions this letter has been forwarded to:

Chicago Department of Environment
Attention: Ms. Rahmat Begum
30 North LaSalle Street, 2nd Floor
Chicago, Illinois 60602

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Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Joshua J. Rowe
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.

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.

180573505

Date

11/4/11

Site Address

300-58E. South Water

Work Location (Describe exact site location and attach map)

Traffic Lane

Nature of Work

Corrosion

Expected Start Date

ASAP

Applicant Name (print)

Maria G. Oliver

Signature

Maria G. Oliver

Date

11/4/11

Company

Peoples Gas

Company Address / Phone No.

130 E. Randolph (312) 240-4692

Check if City Department Work Department Name

General / Prime Contractor

Rachel Nielsen

Include subcontractor information if applicable

Address

130 E. Randolph

Phone No.

(773) 395-4254

Safety Officer / Phone No.

Jake Wilken (773) 542-7838

Radiation Contractor / Phone No. (if applicable)

AECOM Steve Kornder (847) 279-2500

Department of Environment Approval / Date

J Sheehan 11-4-11

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

