



AECOM
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Chicago, Illinois 60601

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December 14, 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.: 180784778
Permit Address: 520-521 East Illinois 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 15, 2011 for an excavation to install new gas service piping.

Surveying was performed for the soil removed from a 12 by 2-foot trench and a 6 by 4-foot excavation to a depth of 5.5-feet required for installation of the new gas service piping. The new gas service piping was also placed in a previously excavated 25 by 4-foot trench to a depth of 8-feet for sewer service. The gas pipe was laid on top of the backfill material covering the sewer pipe. 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 19,969 counts per minute (cpm) unshielded (7,127 cpm shielded). The field gamma background for the area was measured at approximately 4,600 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 11,900 cpm to a maximum of 14,500 cpm unshielded. 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.

180784778

Date

11/4/11

Site Address

52021 E. Illinois

Work Location (Describe exact site location and attach map)

Traffic Lane

Applicant Name (print)

Mona G. Oliver

Signature

Mona G. Oliver

Date

11/4/11

Company

Peoples Gas

Company Address / Phone No.

130E Randolph

Check if City Department Work Department Name

General / Prime Contractor

Robert Anderson

Include subcontractor information if applicable

Address

130 E Randolph

Phone No.

(773) 542-7856

Nature of Work

New service installation

Expected Start Date

ASAP

Safety Officer / Phone No.

Jake Wilken (773) 542-7838

Radiation Contractor / Phone No. (if applicable)

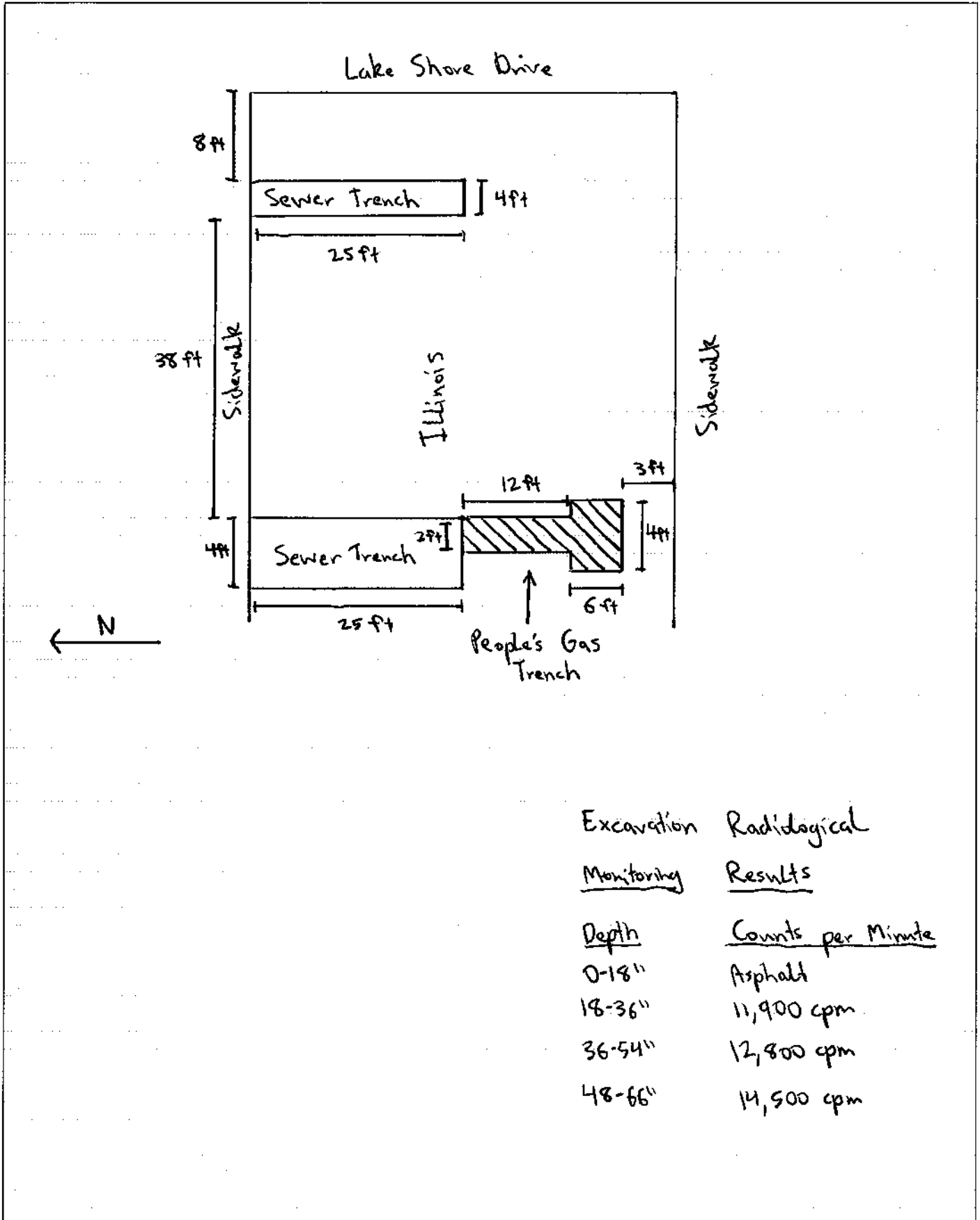
AECOM Steve Komdey (847) 279-2500

Department of Environment Approval / Date

J Sheahan 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



<u>Excavation</u>	<u>Radiological</u>
<u>Monitoring</u>	<u>Results</u>
<u>Depth</u>	<u>Counts per Minute</u>
0-18"	Asphalt
18-36"	11,900 cpm
36-54"	12,800 cpm
48-66"	14,500 cpm