



AECOM  
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Chicago, Illinois 60606

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959061

May 16, 2017

Mike Jouras  
Peoples Gas Light & Coke Co.  
Environmental Services Department  
200 E. Randolph Street, 24<sup>th</sup> Floor  
Chicago, IL 60601

RE: Radiological Survey of a Utility Service Replacement  
Permit No.: DOT774702  
Permit Address: 440-48 N. State St., Chicago, Illinois  
AECOM Project No. 60157647

Dear Mr. Jouras:

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 May 5, 2017 for excavation related to relocation a utility service replacement.

Surveying was performed within the excavations and on the spoil removed at 440-48 N. State St. (refer to sketch). The excavation was composed of a single trench along the west side of N. State St., approximately 70-feet south of the intersection of N. State St. and E. Illinois St. The trench was 4-feet wide by 4-feet long, and excavated to approximately 3.5-feet below ground surface (bgs).

The monitoring did not indicate that the fill soils were above the removal action level established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA removal action level 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 recorded using Ludlum Models 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used, the gamma count threshold indicative of the 7.1 pCi/g removal action level is 19,415 (S/N: 172039) counts per minute (cpm) unshielded.

The field gamma measurements within the excavations and of the spoil during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 5,400 cpm to a maximum of 6,200 cpm unshielded. Based on field observations there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium. A copy of the permit and a field sketch documenting the area where work was performed, have been included as attachments.

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

Chicago Department of Public Health  
Attention: Mr. Terry Sheahan  
333 South State Street, Room 200  
Chicago, Illinois 60604

Permit No.: DOT774702  
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Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Andrew Kozak  
Geologist



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

cc: Terry Sheahan, Chicago Department of Public Health  
Verneta Simon, USEPA

Attachments: Permit  
Sketch

**PERMIT**



DEPARTMENT OF PUBLIC HEALTH  
CITY OF CHICAGO

FORM NO. CDPH.ROW.03 (STREETERVILLE Right-of-Way)

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Public Health (CDPH) 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 CDPH at 333 S. State St., Room 200, Chicago, Illinois 60604 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 745-3152 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 CDPH, 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 CDPH 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.

Applicant Name (print): Maria G. Oliver Signature: Maria G. Oliver  
Site Address and Work Location (Describe exact site location and attach map): 440-48 N. State St.

Nature of Work: Service Replacement  
Company Name, Address, Phone No.: Peoples Gas, 200 E. Randolph (312) 240-4692  
General / Prime Contractor Name, Address, Phone No.: Earl Micks (773) 395-7434  
*Include subcontractor information if applicable*  
Safety Officer / Phone No. Jerry Gross (773) 542-7927  
Radiation Contractor / Phone No. (if applicable) Steve Komder, AECOM, (262) 515-7700

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

CDOT Permit No.: DOT 774702

Today's Date: 3/24/17 Expected Start Date: 3/28/17 CDPH Approval / Date: J. Sheahan 3/24/17

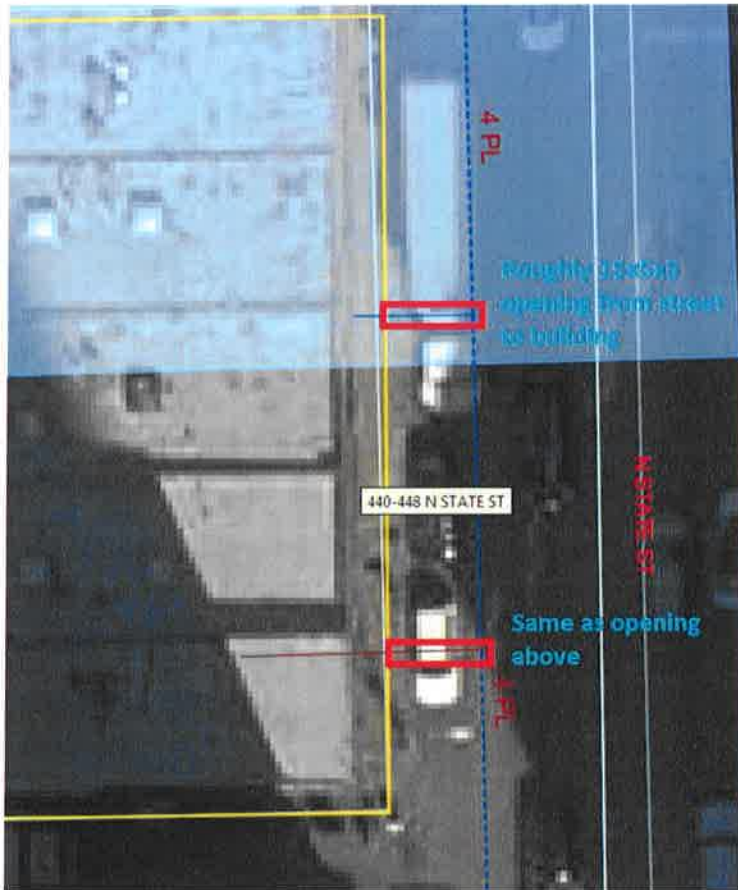
Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall – Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only

440-48 N State

Service Replacement

2-5x15 Street openings



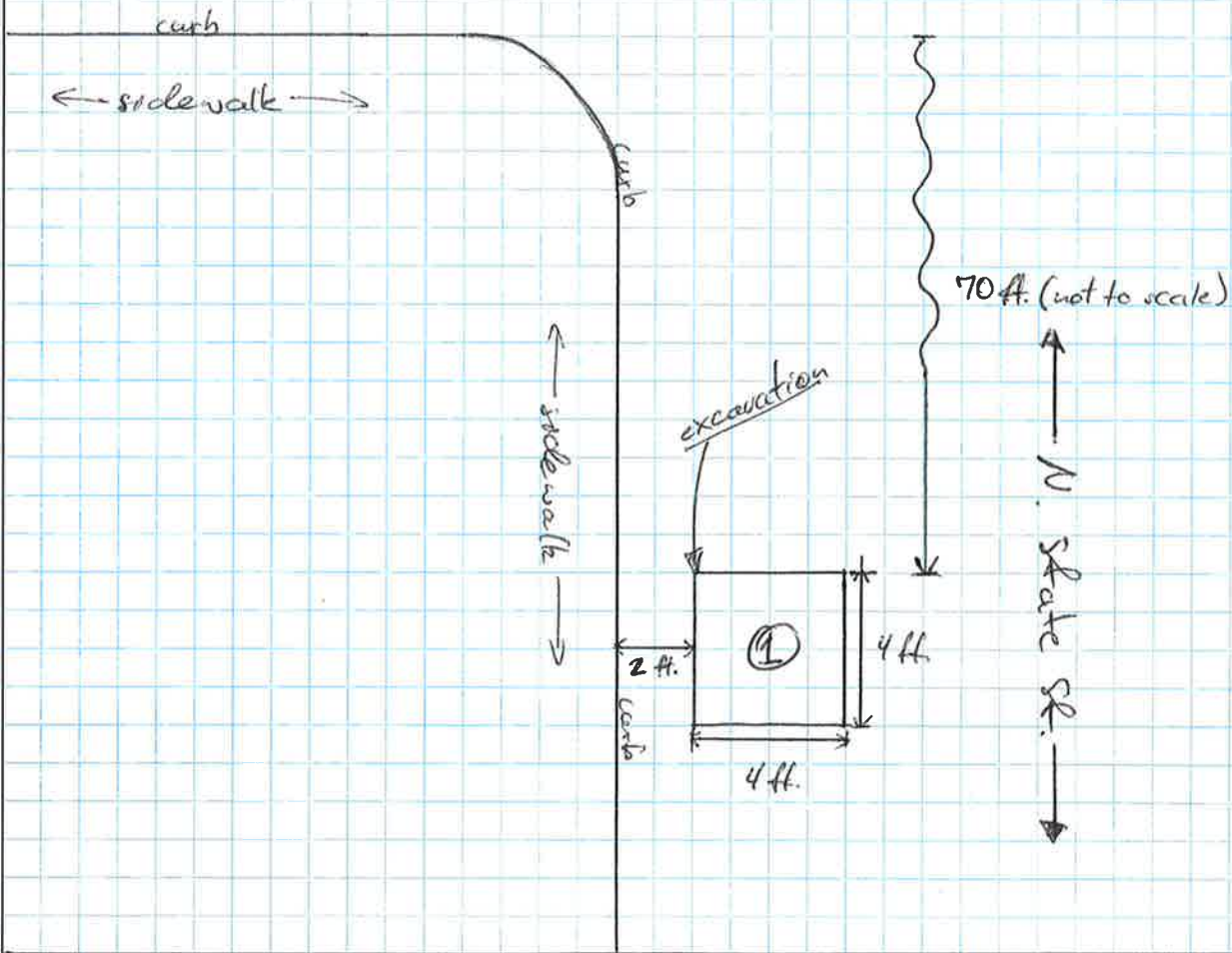
**SKETCH**

JOB TITLE 440-48 N. State St. People's Gas  
 JOB NO. 60157647.85 CALCULATION NO. \_\_\_\_\_  
 ORIGINATOR A. Kozak DATE 5/5/17  
 REVIEWER S. Koruder DATE 5/16  
 SCALE 1 square = SHEET NO. 1 OF 1

Survey Equipment

Ludlum 2221 s/w : 172039  
 Probe 2x2 NaI s/w : PR174496  
 unshielded : 19,415 cpa  
 shielded : 7,128 cpa  
 background : 8,100 cpa  
 field personnel : D. Donahoe

← E. Illinois St. →



section	Depth	Readings
1	0"	
	18"	5,600 - 6,100
	36"	5,400 - 6,100
	18"-41" (sand)	5,400 - 6,200