



AECOM
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December 2, 2022

Mr. Kyle Carlson
Peoples Gas Light & Coke Co.
Environmental Services Department
200 E. Randolph Street, 24th Floor
Chicago, IL 60601

RE: Streeterville Thorium Monitoring Results – Gas Service Line Retirement
Permit No.: CDOT1751433
Permit Addresses: 612-621 N. Rush St.

Dear Mr. Carlson:

Pursuant to conditions specified in the Right-of-Way (ROW) forms (attached) issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on November 10, 11, and 14, 2022, for an excavation to retire a gas service line at the above project address (refer to map included with CDPH form).

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 a Ludlum Model 2221 survey meter and a shielded 2 x 2 inch NaI probe (Model 44-10). For the instruments used (Ludlum, NaI probe), the gamma count threshold indicative of the 7.1 pCi/g removal action level was approximately 7,197 (S/N: 326720) counts per minute (cpm) shielded.

The excavation was located just east of the west curb of N. Rush St. The excavation was 25-feet long, extending from 75-feet south of E. Ontario St. to 100-feet south of E. Ontario St. The excavation was 5-feet wide to a depth of 80-inches below ground surface (bgs). The 25-foot trench was divided into three areas of approximately equal length for the gamma monitoring (refer to tabulated results). The sections were numbered from 1 to 3 starting at the north end of the trench. Field gamma measurements within this opening did not exceed the instrument threshold previously stated and the maximum counts for the lifts ranged from 912 cpm to a maximum reading of 3,181 cpm (see Table 2). The background gamma counts of nearby soils were measured at 2,010 cpm, 1,673 cpm, and 1,847 cpm shielded. 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 PDF copy of this letter will be forwarded via email to the CDPH and Verneta Simon (USEPA) to fulfill the requirements of the CDPH. Copies of the CDPH form, photographs, and the tabulated gamma results are included as attachments to this report.

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

Regards,



Cassidy Redding
Air Quality Scientist I



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

cc: Ahmad Nur, Chicago Department of Public Health
Verneta Simon, USEPA

Attachments: CDPH Permit Form and Map
Tabulated Gamma Results and Photograph

CDPH PERMIT FORMS



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 Oliver Signature: Maria J Oliver

Site Address and Work Location (Describe exact site location and attach map): 612-21 N Rush St

Nature of Work: Main Retirement

Company Name, Address, Phone No.: Peoples Gas, 200 E Randolph St (312) 240-4692

General / Prime Contractor Name, Address, Phone No.: Brad Nagel, 773-542-7973

Include subcontractor information if applicable

Safety Officer / Phone No. Joseph McHugh (312) 285-7315

Radiation Contractor / Phone No. (if applicable) Steve Kornder, AECOM, INC (262)515-7700

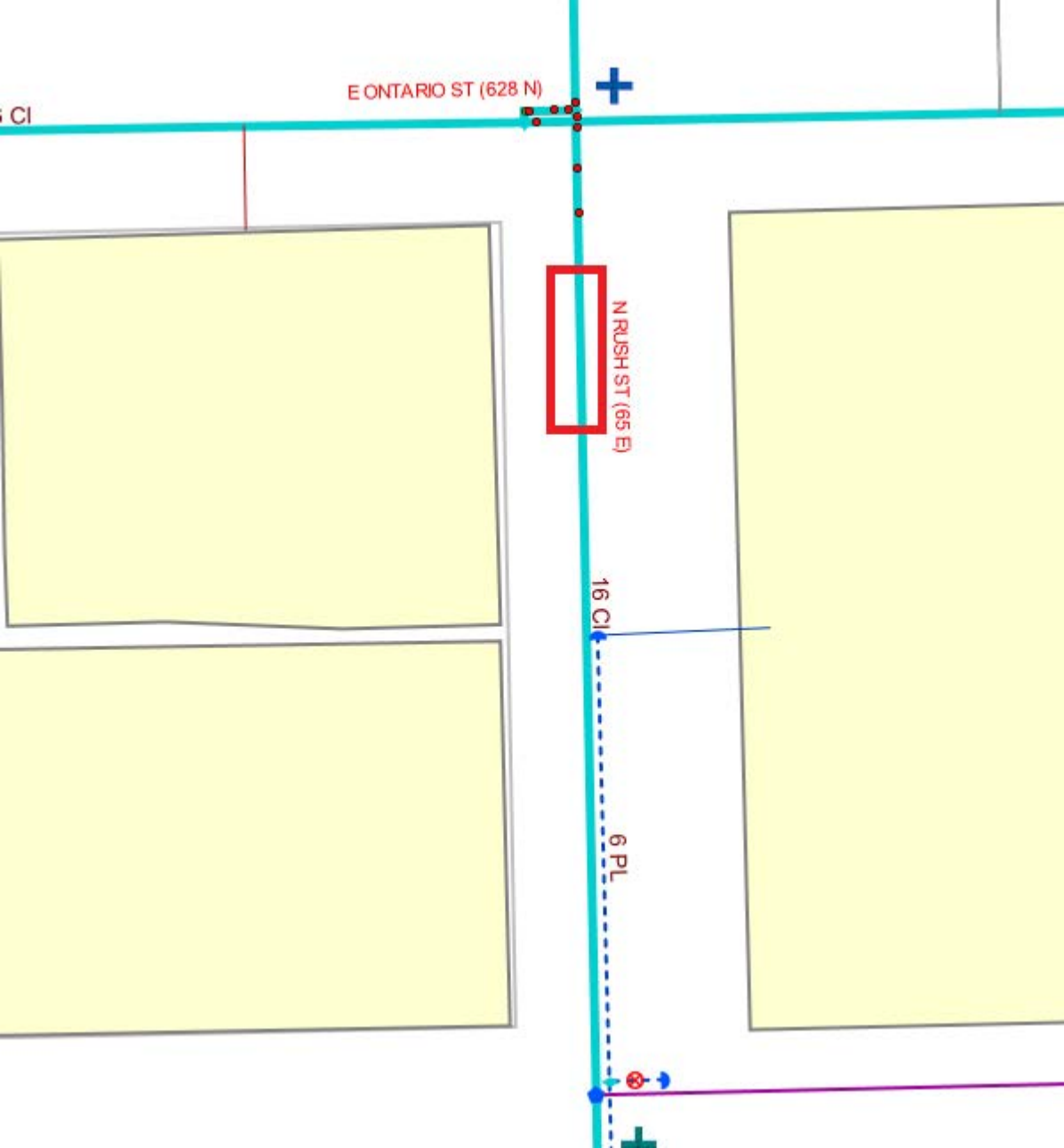
Check if City Department Work [] Department Name:

CDOT Permit No.: DOT1751433

Today's Date: 11-3-22 Expected Start Date: 11-7-22 CDPH Approval / Date ahmad nur 11/4/2022

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



PHOTOGRAPHS AND TABULATED GAMMA RESULTS

Gamma Survey Results People's Gas

Table 1: Survey Equipment

CDOT No:	1751433
Ludlum 2221 S/N:	326720
Ludlum Probe S/N	PR360158
Cutoff (cpm)	7,197
Background (11/10/22) (cpm)	2,010
Background (11/11/22) (cpm)	1,673
Background (11/14/22) (cpm)	1,847
Personnel:	E. Renn & C. Redding
Date of Screening:	11/10/22, 11/11/22, 11/14/22

Table 2: Survey Results

Location	Section	Depth (inches)	Maximum Readings (cpm)
612-621 N. Rush St.	1	0-9	Asphalt
		9	1,386
		26	2,397
	2	0-9	Asphalt
		9	912
		28	2,128
		43	2,478
		58	2,317
		67	2,834
		69	2,604
	80 (beneath gas main)	2,500	
	3	0-9	Asphalt
		9	1,377
		26	2,571
		43	2,142
58		2,305	
64		3,181	
80 (beneath gas main)	2,400		

PICTURE 1: VIEW OF THE COMPLETED EXCAVATION AT 612-621 N. RUSH ST.

