



AECOM
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January 29, 2024

988665

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 Line Replacement
Permit No.: CDOT1910731
Permit Addresses: 1-21 W Illinois St.

Dear Mr. Carlson:

Pursuant to conditions specified in the Right-of-Way (ROW) form (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 January 25, 2024, for an emergency dig ticket excavation to repair a gas leak detected at a cast iron main just west of the intersection of W. Illinois St. and N State St. (refer to map included with CDPH form). The excavation was irregularly shaped, approximately 6 feet wide, 13 feet long and 4 feet deep at the eastern portion of the excavation. The volume of spoil (including concrete) was estimated at 5 cubic yards and composed primarily of clean tan fill sand. The cast iron main was installed within a couple feet of plastic gas main that was installed in approximately 2013, which had been backfilled with the clean tan sand.

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, and short cord), the gamma count threshold indicative of the 7.1 pCi/g removal action level was approximately 6,241 (S/N: 172039) counts per minute (cpm) shielded.

The excavation was located approximately 13 feet north of the curb on the south side of W Illinois St. Fill soil was screened post-excavation in order not to delay the repair of the gas leak. The excavation was backfilled with clean fill sand. The excavated spoil was spread out in a layer less than 18-inches in depth for thorium screening. The gamma counts for the spoil ranged from 1,754 cpm to a maximum of 3,882 cpm shielded and did not exceed the instrument threshold previously stated. 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.

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

Regards,

Larry Verkoulen
Project Manager

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

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

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

CDPH PERMIT FORM



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.ROW.04 (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.

Review all environmental and other information regarding the worksite provided by CDPH. Additional information regarding the aforementioned environmental contamination is available for review at <https://www.epa.gov/lindsay-light>. This environmental information must be reviewed and the remainder of this form completed before the permit can be issued if the ground will be 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 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 CDPH at (312) 745-8332 and 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):

1-21 W Illinois St

Nature of Work: Emergency Main Leak Repair-5x5x5 Street opening-The work has been completed and radiologically screened with AECOM

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

General / Prime Contractor Name, Address, Phone No.: Jesse Stiff (708) 244-9374

Include subcontractor information if applicable)

Safety Officer / Phone No. Kyle Carlson (414) 221-4076

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

Check if City Department Work ☐ Department Name: _____

CDOT Permit No.: DOT1910731

Today's Date: 1/25/24 Expected Start Date: 1/25/2024

CDPH Approval / Date ahmad nur 01/25/2024

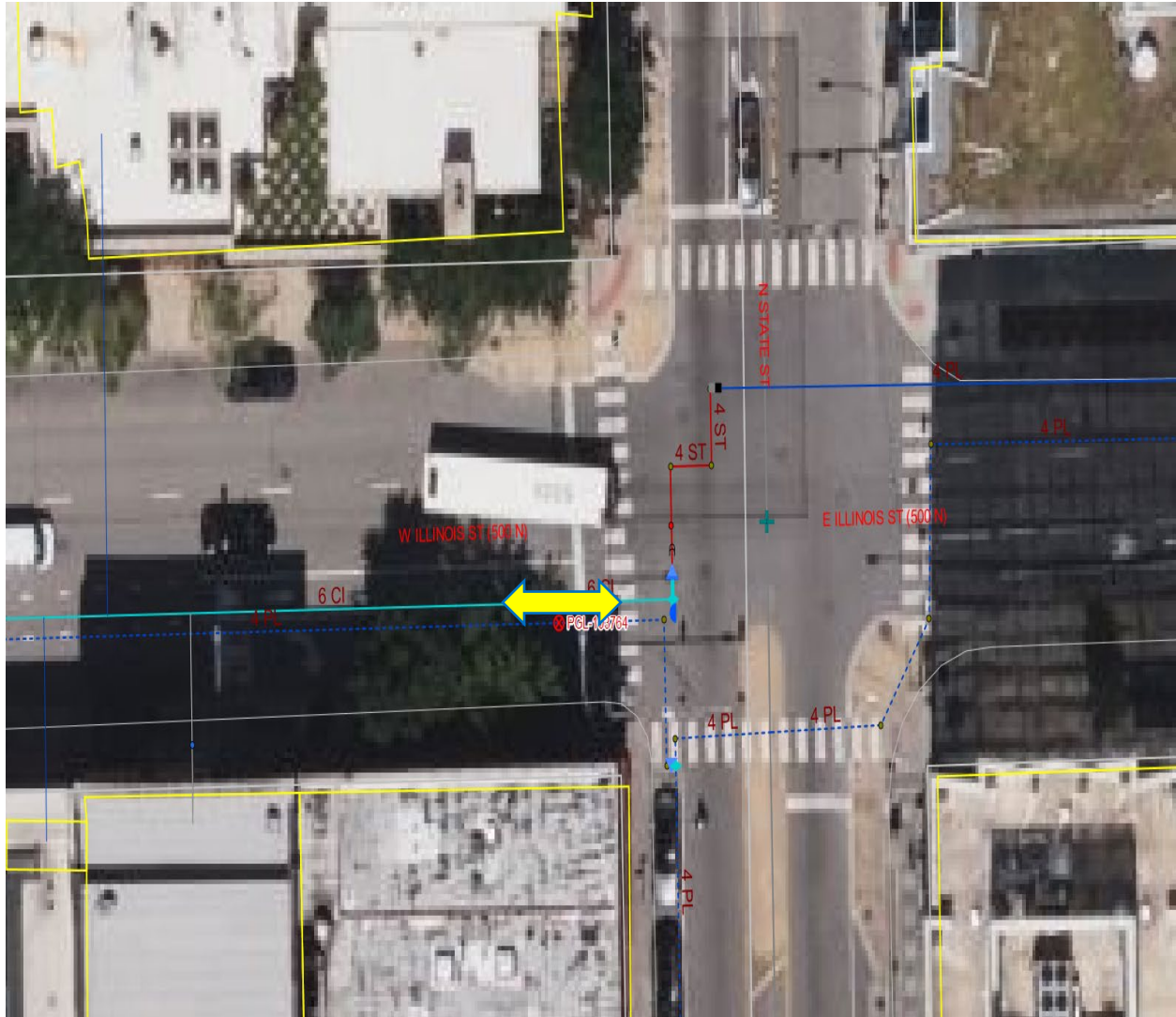
Please upload this form with detailed drawings as an attachment to the CDOT Public Way Opening Permit Application on the City of Chicago's Permit, Inspection, License, Registration, and 811 Chicago Portal (<https://ipi.cityofchicago.org/profile>) or send via e-mail to: radiation-monitoring@cityofchicago.org

For CDPH Use Only AECOM Radiation Specialist completed radiation monitoring on-site for emergency repair of CI gas main. No count rates above the 7.1 pCi/g threshold limit were identified. -A.N. 1/25

1-21 W Illinois St

Emergency Gas Main Leak Repair

TD# 601493950



PHOTOGRAPHS AND TABULATED GAMMA RESULTS

Gamma Survey Results People's Gas

Survey Equipment

CDOT No:	CDOT1910731
Ludlum 2221 S/N:	172039
Ludlum Probe S/N	PR174406
Cutoff (cpm)	6,241
Personnel:	C. Farlee
Date of Screening:	1/25/2024

Survey Results

Location	Depth (inches)	Maximum Readings (cpm)
1-21 W Illinois St.	0-14	Concrete/pavement
	14-48*	3,882

Note: * - Fill soil was screened post-excavation because an emergency leak repair. Excavated spoil was spread out in a layer less than 18-inches in depth for thorium screening.

PICTURE 1: VIEW OF EXCAVATION LOCATION LOOKING SOUTH



PICTURE 2: VIEW OF EXCAVATION LOOKING TOWARD THE SOUTHEAST

