



AECOM
303 E. Wacker Drive, Suite 1400
Chicago, Illinois 60601

312-373-7700 tel

November 19, 2018

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

RE: Corrosion Protection \ Anode Installation
Permit No.: DOT1022330 (Originally DOT 991097)
Permit Address: 418-20 N. State St., Chicago, Illinois
AECOM Project No. 60157647.113

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 14, 2018 for excavation to install and anode for service line corrosion protection.

Surveying was performed on the fill removed at 418-420 N. State St., northeast of the southwest corner of N. State St. and W. Hubbard St. (see sketch). The excavation was located at approximately the center of W. Hubbard St. and 10 feet east of the western curb line of N. State Street. The excavation was conducted to install a corrosion control anode for the gas utility line.

The gamma monitoring did not indicate that the fill soil was 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 6,669 (S/N: 172039) counts per minute (cpm) shielded. The background counts for soil recorded near the location of the excavation was not available.

The excavation was approximately 18-inches in diameter with a termination depth of 72-inches below ground/pavement surface (bgs). The material was excavated utilizing hand equipment and a vacuum truck. Unconsolidated fine backfill sand was encountered immediately after removal of pavement and road-base at approximately 18-inches bgs. The clean backfill sand was apparently utilized to fill the excavation when the service line was originally installed. The backfill sand extended to the base of the excavation at 72 inches bgs.

The field gamma measurements within the excavations during the excavation process did not exceed the instrument threshold previously stated and were between 1,900 and 2,000 cpm shielded. The general subsurface stratigraphy during the excavation was composed of road-base and clean backfill sand. 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 CDPH permit, field sketch and tabulated results documenting the work performed are included as attachments.

As part of the permit conditions, a PDF of this letter has been forwarded via email to:

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

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 and Results

PERMIT



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

(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): 418-20 N State St

Nature of Work: Corrosion-Installing anode

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

General / Prime Contractor Name, Address, Phone No.: Mohamed Mohamedein (312) 622-8666

Include subcontractor information if applicable

Safety Officer / Phone No. Steve Kornder, AECOM, Inc. (262) 515-7700

Radiation Contractor / Phone No. and email address (if applicable) _____

Check if City Department Work ☐ Department Name: _____

CDOT Permit No.: DOT1022330

Today's Date: 10/24/2018 Expected Start Date: 10/26/2018 CDPH Approval / Date I Shearman 10/24/18

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)

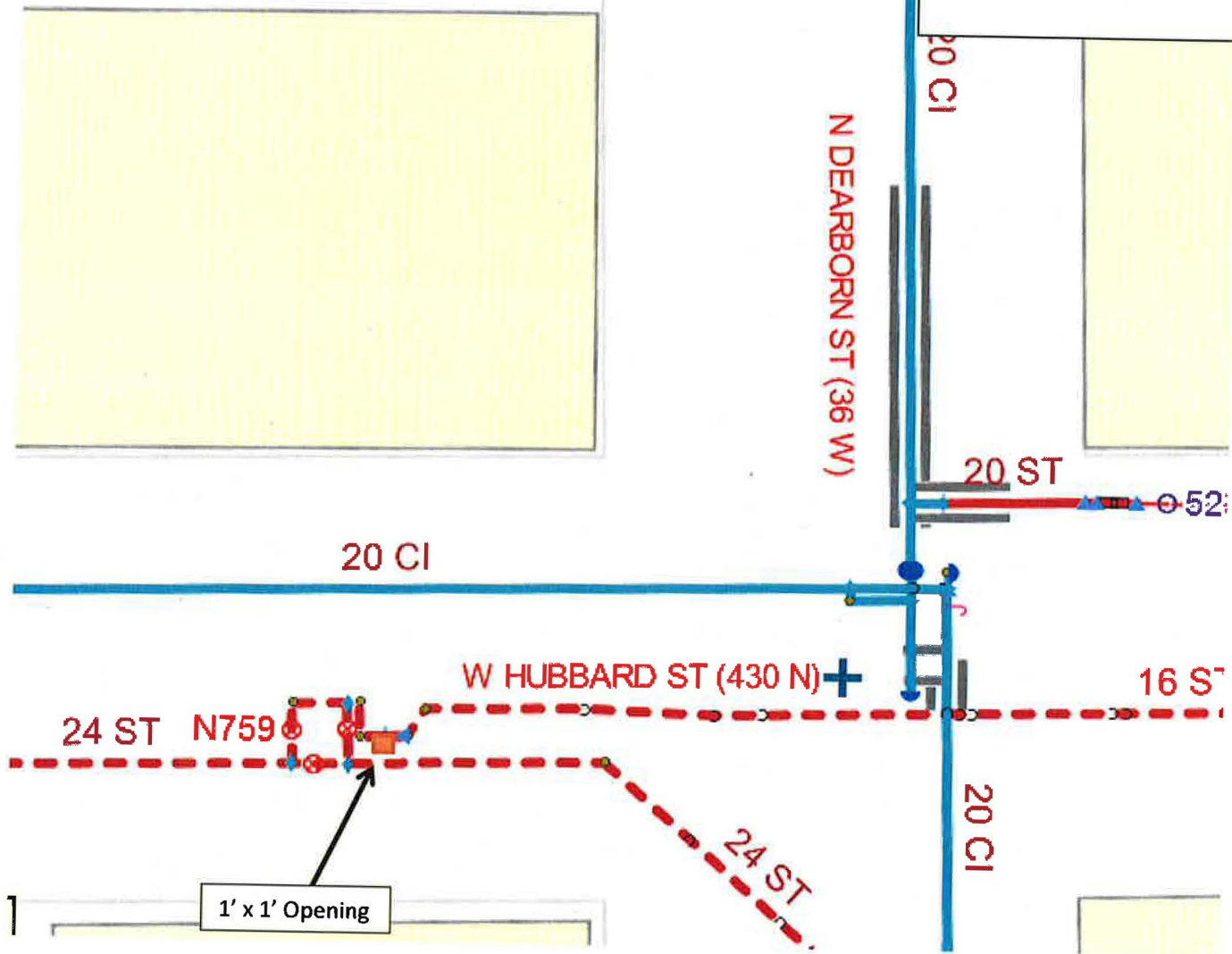
For CDPH Use Only

PGL WR: 2737261

ADDRESS: 418 N. State St.

(1) 1' x 1' Opening in Stre

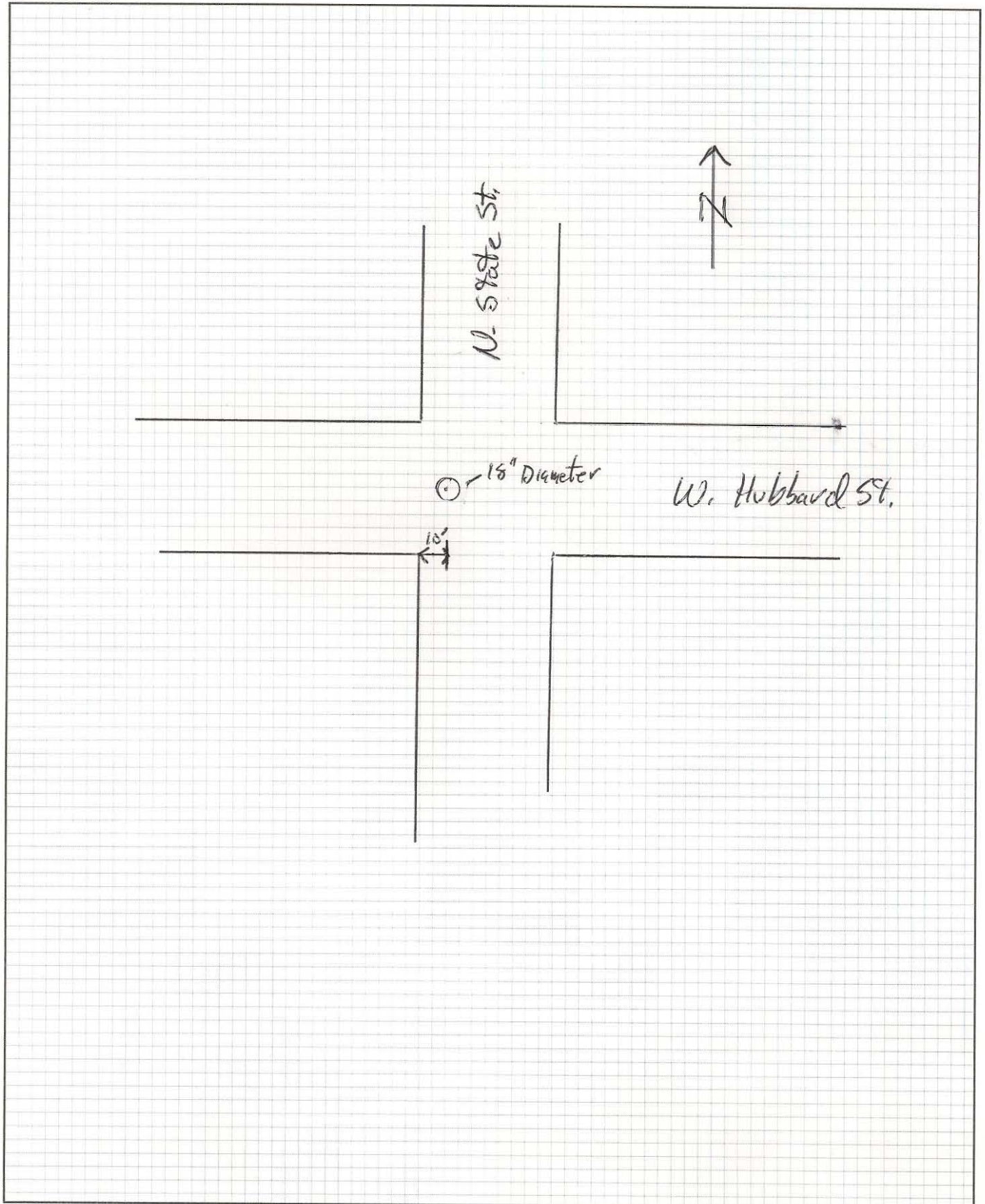
COMMENTS: Thorium Hold





SKETCH AND RESULTS

JOB TITLE Proples Gas - 418-20 N. State St.
 JOB NO. 60157647.113 CALCULATION NO. _____
 ORIGINATOR E. Solita DATE 11/14/18
 REVIEWER S. Konder DATE 11/19/18
 SCALE NA SHEET NO. 1 OF 1



Gamma Survey Results

418-20 N. State St.

People's Gas

DOT1022330

Survey Equipment

Ludlum 2221 S/N:	172039
Probe 2x2 NaI S/N:	PR179406
shielded cutoff (long cable):	6,669 cpm
background:	-
Personnel:	E. Sulita
Date of Screening:	11/14/2018
Permit #:	DOT1022330

Survey Results

Location	Depth (inches)	Readings (CPM)
1	0	concrete/asphalt
	18	2000
	72	1900