AECOM
100 S. Wacker Drive, Suite 500
Chicago, Illinois 60606

312-939-1000 tel
312-939-4198 fax

September 14, 2015

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

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: 571255578
Permit Address: 232 East Ohio Street
AECOM Project No. 60157647

Dear Mr. Jouras:

AECOM Technical Services, Inc. (AECOM) provided radiation surveillance on September 14, 2015 for paving restoration at the above reference site. An emergency permit had been acquired to repair a gas service leak immediately west of the building entrance at 232 E Ohio Street. The leak was repaired the same day that the emergency permit was acquired on July 22, 2015. The work required excavation in both the sidewalk and street immediately adjacent to the curb. The repair crew indicated that the fill materials were tan sand (i.e., not urban fill) in addition to the concrete and paving materials that were removed. AECOM conducted screening over the crushed stone backfill in the sidewalk on August 12, 2015, which revealed gamma reading were essentially background for the area. Readings in the street were not performed because asphalt had already been placed within the excavated area.

Surveying was performed on September 14, 2015 for the sidewalk area that was excavated in order to restore the paving (see sketch). The excavation depth was approximately 10 inches below ground surface (bgs) and was approximately 11-foot long by 12-foot wide, which was larger than the original trench excavation (i.e., extended to the closest joints in the existing sidewalk paving). The fill material removed was predominantly composed of 1-inch stone with fines and fine grained sand. Only a trace amount of the subgrade material appeared to consist of urban fill.

The September 14, 2015 monitoring did not observe readings that were above the cleanup value established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA cleanup value 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 inch NaI probe (Model 44-10). For the instrument used, the gamma count threshold indicative of the 7.1 pCi/g cleanup value is 17,015 counts per minute (cpm) unshielded.

The field gamma measurements within the excavation area did not exceed the instrument threshold previously stated and ranged from a minimum of 6,800 cpm to a maximum of 10,450 cpm unshielded. Thus, there was no indication of the presence of radiologically-contaminated material and/or an exceedance of the USEPA cleanup value of 7.1 pCi/g total radium. A copy of the permit and a field sketch documenting the area where work was performed are included as attachments.

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

Chicago Department of Public Health
Attention: Ms. Rahmat Begum
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
Environmental Engineer

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

cc: Rahmat Begum, Chicago Department of Public Health
Verneta Simon, USEPA

Attachments: Permit
Sketch

PERMIT

Permit # 571255578

AMENDED

Received Date: Jul 31, 2015 9:55:41

INTEGRYS ENERGY GROUP/PEOPLES GAS
200 EAST RANDOLPH STREET
CHICAGO, IL 60601

City of Chicago
Department of Transportation
(312) 744-4652

HERMAN,ROBERT J 773-542-7830

ACTIVITY HOURS

See RESTRICTIONS for permitted hours

DATES

Aug 28, 2015 through Sep 15, 2015

ACTIVITIES

Street Opening (Sidewalk,Parkway,CurbLane&TrafficLane): **Dig #: 571217097**

There will be 1 opening(s) in the public way for the purpose: CUAN DIG.

5 Feet x 3 Feet x 3 Feet

Excavation may commence on SEP 1, 2015 - NO SOONER.

398 - 399 E OHIO ST

PGLStand<92878>LEAK REPAIR

ENVIRONMENT SIGN OFF BY RHAMAT BEGUM 8/14/15

RESTORATION REQUIREMENTS - 13X15
OK INSPECTOR G.K 8/19/15

400 - 400 E OHIO ST

5241765564

Degradation Fee: **Dig #: TBD**

Degradation fee for 5 feet Opening for permit 571255578

398 - 399 E OHIO ST

Restrictions:

1. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in you being considered in violation of the terms and agreement of the permit and subject to any applicable fine and fees as if you never attained a permit. Additionally, you will still be responsible for the cost of the original permit. Monthly billing accounts are not applicable to the 24 hour payment criteria but failure to pay the monthly bill by the due date will result in the same penalties applying.
2. A copy of the permit must remain on-site for inspector's review.
3. Work permitted only between .
4. Contractor must secure plating over all openings in the roadway and secure all sidewalk/parkway openings during non-working hours until such time when the road surface is restored.
5. All directional boring must be pre-approved by the Office of Underground Coordination.
6. All traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.
7. Restore all lanes to normal operation during non-working hours.
8. Must use flagmen and/or arrow boards to maintain traffic operations through the work zone.
9. Excavators requesting dig tickets are responsible for the protection of utility markings at the job site. Any markings of underground utilities utilizing utility colors, must be done by facility owners or authorized agents only.
10. When applicable, all excavation areas are to be clearly marked in safety white paint prior to calling DIGGER. White paint is not required for joint meets or emergency work.
11. Contractor must notify DIGGER at 312-744-7000 no less then 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more then 14 calendar days in advance of the start of the excavation or demolition, unless the excavation date was provided with the application and remains unchanged. Prior to 26 calendar days the Contractor must notify DIGGER to renewal the dig date!
12. It is the Excavator's responsibility to request refreshing of marks when needed, but no longer than 28 calendar days after the last requested date.
13. Pursuit to City Ordinances 8-32-140 through 170 use of pneumatic equipment must not begin before 8:00 A.M. or continue after 8:00 P.M.
14. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
15. Permanent base pavement restoration to follow within 5 days after the completion of

Restrictions:

underground work.

16. All pavements and pavement markings are to be restored in accordance with CDOT Construction Standards.
17. All street openings must be restored with concrete base to grade.
18. Work to be performed as per plans and specifications.
19. Streets recently resurfaced must be restored to proper standards (resurface to nearest 1/4 pt, see CDOT Construction Standards for further details).
20. WARNING: THIS WORKSITE(S) CONTAINS RADIOACTIVE MATERIAL. ANY QUESTIONS PERTAINING TO HANDLING OF MATERIALS, CONTACT THE DEPT. OF ENVIRONMENT AT 312-744-3152.
21. This worksite is a MORATORIUM STREET and must be restored to CDOT standards.
22. BIKE FACILITY: On streets with bike markings and/or bike signage the CDOT Bike Program can provide existing pavement marking plans and details. Please contact CDOT Bike Program representative Bradley Topol in advance of activity to ensure restoration of pavement markings. Contact at (312) 744-0513 or at CDOTBikes@cityofchicago.org

    SHARED LANE YIELD TO BIKES signs must be posted if bike traffic is shared with vehicular traffic. Please see the CDOT Rules and Regulations For Construction in the Public Way for more guidance on bike temporary traffic control.

23. No work in or use of the public right of way is to be done when a special event is taking place. It is up to the applicant to determine if an event is scheduled. To obtain a listing of programs or events within the City of Chicago please dial 311 when you are within the City boundaries.
24. It is the responsibility of the applicant to fund Traffic Control Aides if the City deems it necessary due to heavy congestion situations.
25. Pursuit to City Ordinances 10-20-150 and 10-28-281.3 a re-inspection fee of $100 may be assessed for each inspection conducted after the initial inspection.
26. All metal plates used for public way construction or placed within the right-of-way must indicate Ownership!

Degradation Fee

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08-28-2015 - Fee for Activity
CBD:     Y  Cost Per EA: $      #######  CAPS:                648-84-3033-600
Tiered:  N  # Of EA:               5.00  Late charge: $                   .00
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5241765564

Mora:	N	Amount: $	5,000.00

Street Opening (Sidewalk,Parkway,CurbLane&TrafficLane)

08-28-2015 - Fee Pavement Opening

CBD:	Y	Cost Per EA: $	454.00	CAPS:	300-84-2135-256
Tiered:	N	# Of EA:	1.00	Late charge: $	.00
Mora:	Y			Amount: $	908.00

Total Fees: $ 5,908.00

Grand Total Fees: $ 5,908.00

Affected CUAN Sites: 7, 15, 18, 21, 22, 24, 28, 29, 31, 34, 36, 38, 53, 61, 68, 70, 73, 79, 141, 147, 157

EFFECTIVE DATES OF PERMIT

Current: Aug 28, 2015 through Sep 15, 2015 (Input date: Aug 01, 2015 12:10:35 p.m.)
Previous: Jul 31, 2015 through Sep 15, 2015 (Input date: Aug 28, 2015 12:10:17 p.m.)
Previous: Jul 31, 2015 through Aug 30, 2015 (Input date: Jul 31, 2015 9:55:41 a.m.)

END OF PERMIT

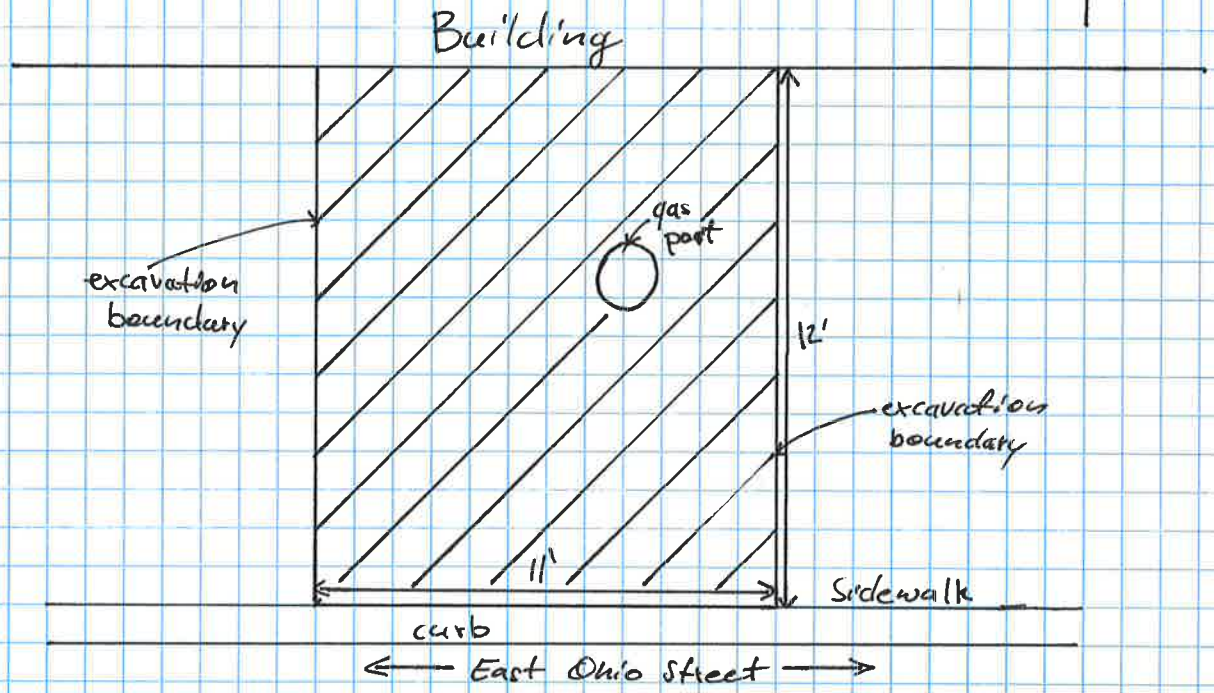
5241765564

SKETCH

AECOM

JOB TITLE Peoples Gas - 232 East Ohio Street
JOB NO. 60157647 CALCULATION NO. —
ORIGINATOR Andrew Kozak DATE 9/14/15
REVIEWER Steve Korander DATE 9/14/15
SCALE — SHEET NO. 1 OF 1

Survey Equipment
Ludlum - 2221 : S/N 172039
Probe 2x2 NaI : S/N 174496
Unshielded : 17,015 cpm
shielded : 6,684 cpm
Background : ~~6,800~~ cpm N/A



Survey Readings

excavation

Depth	cpm
0-10"	6,800-10,450

Grid: 5x5 = 1 in