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

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

September 11, 2015

Ms. Michele Pisterzi
SBC Illinois
2427 Union Street
Blue Island, Illinois 60406

RE: Radiological Survey of Right-of-Way Manhole Replacement
Permit No.: 573187842
Permit Address: 501 N. St. Clair Street
AECOM Project No. 60163572

Dear Ms. Pisterzi:

Pursuant to conditions specified in a permit (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 monitoring on September 8, 2015 for a manhole replacement at the intersection of E Illinois and N St. Clair Street

Surveying was conducted in 6-inch lifts for fill soil removed from an approximately 7.5-foot wide by about 7.5-foot long trench excavation to a depth of 14 inches in the Right of Way (ROW) at the above referenced address (refer to annotated sketch). The U.S. Environmental Protection Agency (USEPA) cleanup value for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). The monitoring revealed no indication of soil above the cleanup value established by the USEPA for the Streeterville area of Chicago.

Gamma radiation count measurements for the project were made using a Ludlum Model 2221 survey meter and an unshielded 2 x 2 inch sodium iodide (Nal) probe Model 44-10. For the instrument used, the gamma count indicative of the USEPA 7.1 pCi/g cleanup value was 18,276 counts per minute (cpm) unshielded. The field instrument gamma background for the area was measured at approximately 4,849 cpm unshielded.

Field gamma measurements greater than twice the field background represent potential anomalous results that require more cautious and frequent field screening, but are not necessarily indications of the presence of thorium contaminated fill soil. Although none were observed for this project, gamma readings above 18,276 cpm would be considered a potential indication of the presence of radiologically contaminated fill soil.

The field gamma measurements within the excavation and of the spoil materials generated during the excavation process did not exceed the field instrument threshold equivalent to the USEPA cleanup value and ranged from a minimum of 4,100 cpm to a maximum of 5,500 cpm unshielded. Thus, there was no indication of the presence of radiologically-contaminated fill soil and/or an exceedance of the USEPA cleanup value of 7.1 pCi/g total radium.

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

Chicago Department of Public Health
Attn: Ms. Rahmat Begum
333 South State Street, Rm. 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 Geoscientist

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

Attachments: CDOT Permit
Sketch

PERMIT

Permit # 573187842

AMENDED

Received Date: Aug 19, 2015 1:44:20

SBC ILLINOIS
2427 UNION
BLUE ISLAND, IL 60406

MICHELE 708-824-2817

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

ACTIVITY HOURS

Start no earlier than 9:30 AM. Stop no later than 3 PM. - Street Opening (Curb Lane &Traffic Lane)

DATES

Aug 25, 2015 through Sep 10, 2015

ACTIVITIES

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

There will be 1 opening(s) in the public way for the purpose: ADJUST F/C.

6 Feet x 6 Feet x 2 Feet

Excavation may commence on - NO SOONER.

501 N ST CLAIR ST

SITE RESTORATION: CONCRETE RESTORATIONN CLASS B PATCH, INCL (8) 30"-#5 EPOXY COATED REBAR DOWELS AND ASPHALT PAVING IF REQUIRED @ EACH LOCATION

CONTRACTOR: ATT / ARCHON
PROJ A007S5C / REQ 2015-1484

OK M SIMON

PETRO SIGN OFF BY RAHMAT BEGUM 8/20/15

AMENDED ON AUG 27 2015 TO EXTEND

5242486033

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

AUG 31 2015 - SEPT 10 2015
OK J MCDONALD

164 - 164 W ILLINOIS ST

Restrictions:

1. A copy of the permit must remain on-site for inspector's review.
2. 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.
3. All directional boring must be pre-approved by the Office of Underground Coordination.
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 traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.
6. Work permitted only between 9:30 AM and 3 PM.
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. 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!
10. 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.
11. 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.
12. 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.
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.

5242486033

Restrictions:

15. Permanent base pavement restoration to follow within 5 days after the completion of 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. 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.

22. 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.
23. It is the responsibility of the applicant to fund Traffic Control Aides if the City deems it necessary due to heavy congestion situations.
24. 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.
25. All metal plates used for public way construction or placed within the right-of-way must indicate Ownership!

Affected CUAN Sites: 7, 15, 17, 18, 20, 21, 22, 24, 28, 29, 31, 34, 35, 36, 38, 42, 53, 61, 68, 70, 73, 79, 86, 141, 147, 157

EFFECTIVE DATES OF PERMIT

Current: Aug 25, 2015 through Sep 10, 2015 (Input date: Aug 27, 2015 8:34:18 a.m.)
Previous: Aug 25, 2015 through Aug 31, 2015 (Input date: Aug 25, 2015 3:19:04 p.m.)
Previous: Aug 19, 2015 through Aug 31, 2015 (Input date: Aug 19, 2015 1:44:20 p.m.)

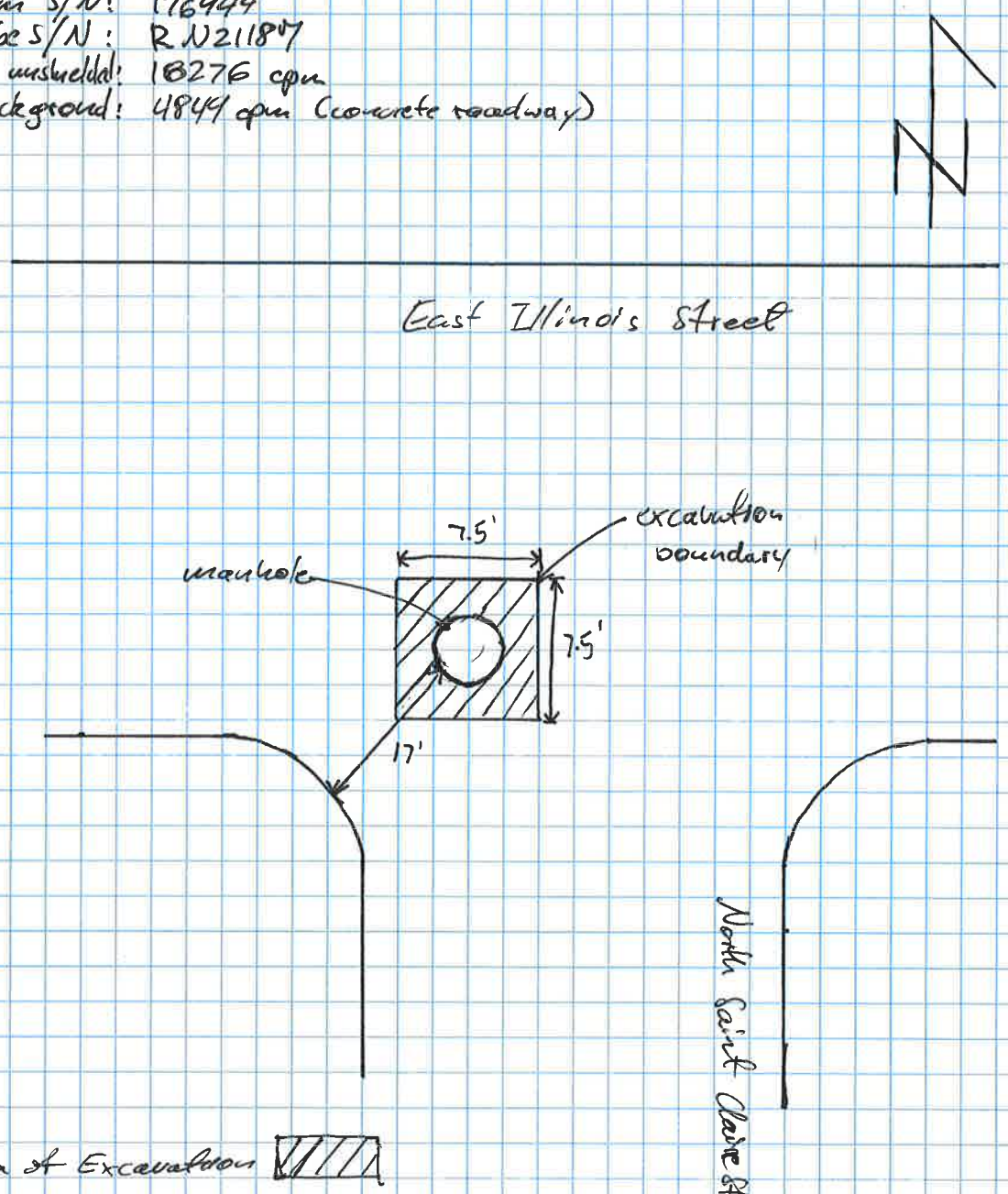
END OF PERMIT

SKETCH

AECOM

JOB TITLE: HT&T Manhole Replacement 501 N. St. Claire St.
JOB NO.: 60163572 CALCULATION NO.:
ORIGINATOR: Andrew Kozak DATE: 9/8/15
REVIEWER: Steve Korender DATE: 9/11/15
SCALE: N/A SHEET NO. 1 OF 1

Manhole Replacement/Excavation surveyed with Ludlum-2221 with a 2x2 NaI Probe (unshielded)
Ludlum S/N: 176944
Probe S/N: RN21187
Cutoff unshielded: 18276 cpm
Background: 4844 cpm (concrete roadway)



Area of Excavation

Depth	Cpm Reading
0-3"	4,100 - 5000
3-9"	4,200 - 5100
9-14"	4800 - 5500

Grid: 5x5 = 1 in