AECOM
303 E. Wacker Drive, Suite 900
Chicago, Illinois 60601

312-938-0300 tel
312-938-1109 fax

August 6, 2014

Ms. Michele Pisterzi
AT&T Illinois
2427 Union Street
Blue Island, Illinois 60406

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: 470350201
Permit Address: 320-324 E. North Water 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 between the days of August 4-6, 2014 for a trench excavation to install a telephone communications service package.

Surveying was conducted in 18-inch lifts for fill soil removed from an approximately 4-foot wide by about 42-foot long trench excavation to a depth of 48-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 17,390 counts per minute (cpm) unshielded. Although none were observed for this project, gamma readings above 17,390 cpm would be considered a potential indication of the presence of radiologically contaminated fill soil. Field gamma measurements greater than twice the 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. The field gamma background for the area was measured at approximately 4,700 cpm unshielded.

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 5,100 cpm to a maximum of 11,000 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,

Brian R. Schmidt
Project Scientist II

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 # 470350201

9580571

AMENDED

Received Date: Jul 22, 2014 4:3:38

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 AM. Stop no later than 4 PM. - Street Opening (Curb Lane &Traffic Lane)

DATES

Jul 22, 2014 through Aug 18, 2014

ACTIVITIES

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

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

10 Feet x 5 Feet x 4 Feet

Excavation may commence on - NO SOONER.

320 - 324 E NORTH WATER ST

OUC APPROVAL# 2014-61099

RESTORATION: CONCRETE TO GRADE. FINAL BY DEVELOPER
CONTRACTOR: ATT/ DRS
JOB NO# 9580571 / REQ# 2014-1312

OK J MCDONALD
ENVIRONMENT SIGN OFF BY RAHMAT BEGUM ON 7/24/14

********** NOTE
****
AMENDED ON JULY 28, 2014 TO EXTEND 2 WEEKS

522685186 7

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

NO WORK TO BE PERFORMED UNTIL AUG 4, 2014 - AUG 18, 2014
DUE TO LOLLAPALOOZA

OK J MCDONALD

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

There will be 1 opening(s) in the public way for the purpose: TRENCH C/T NORTH TO CUST PROPERTY LINE.

25 Feet x 2 Feet x 3 Feet

Excavation may commence on - NO SOONER.

320 - 324 E NORTH WATER 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 .
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

Restrictions:

than 28 calendar days after the last requested date.

11. 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.
12. 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.
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 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, 18, 20, 21, 22, 24, 28, 29, 31, 34, 38, 53, 61, 68, 70, 73, 79, 141, 147

EFFECTIVE DATES OF PERMIT

Current: Jul 22, 2014 through Aug 18, 2014 (Input date: Jul 28, 2014 11:17:18 a.m.)
Previous: Jul 22, 2014 through Jul 30, 2014 (Input date: Jul 22, 2014 4:03:38 p.m.)

END OF PERMIT

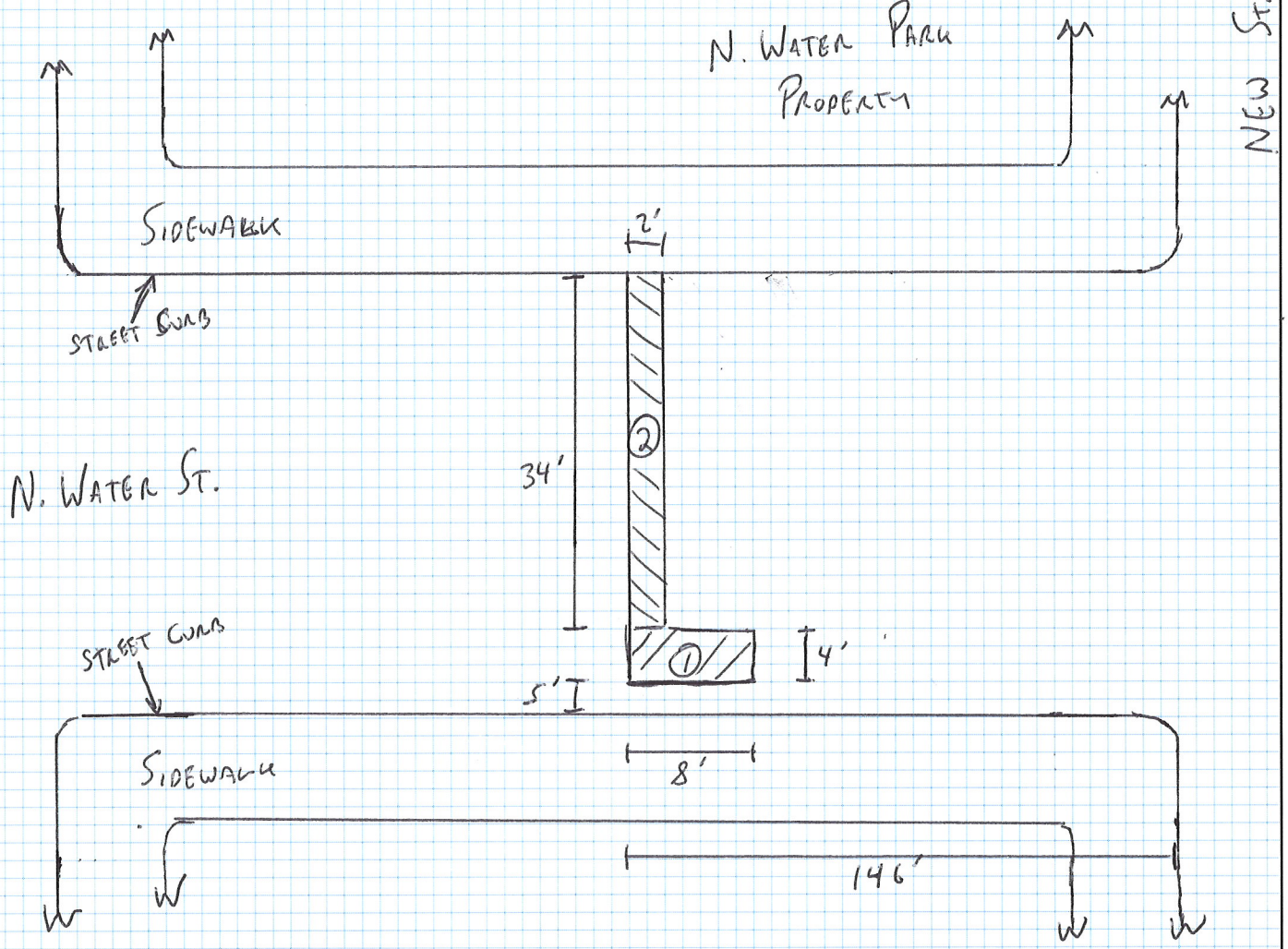
5226851867

SKETCH

AECOM

JOB TITLE ATFT ROW RAD INVESTIGATION 320-324 E. NORTH WATER ST.
JOB NO. 60163572 T. 9120 CALCULATION NO.
ORIGINATOR BRIAN SCHMIDT DATE 8/6/2014
REVIEWER STEVE KORNDER DATE 8/6/2014
SCALE N/A SHEET NO. 1 OF 1

TRENCH EXCAVATION SURVEYED W/ A LUDLUM - 2221 W/
2X2 NAI PROBE (UNSHIELDED)
S/N - 176944
CUT-OFF: 17,390 CPM (UNSHIELDED)
BACKGROUND - 4700 CPM



① ~ 4' bgs

DEPTH	CPM
0-12"	CONCRETE
12-30"	5100
30-48"	6300
48-66"	6600

② ~ 4' bgs

DEPTH	CPM
0-12"	CONCRETE
12-30"	9700
30-48"	11000
48-66"	7000

Grid: 10x10 = 1"