



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

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

August 21, 2017

960630

Mr. Christopher J. Seibel
John Burns Construction Company
17601 SW Highway, Orland Park, IL 60467

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: DOT836709
Permit Address: 50 E. Ohio St., Chicago, IL
AECOM Project No. 60537484.800

Dear Mr. Seibel:

Pursuant to conditions specified in the 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 monitoring on August 9, 10, and 11, 2017, to screen exposed fill material during removal of existing light base, installation of a cellular light base and the associated utility trench excavations.

Gamma radiation surveying was conducted at the above referenced address during the concrete/asphalt removal and trench excavation in the sidewalk and roadway Right-of-Way (ROW). The excavation consisted of removal of existing light pole base, concrete sidewalk, roadway as well as disturbance of the fill material during these activities. The work area is located along the north side of E. Ohio St., west of the intersection of E. Ohio St. and N. Rush St. (refer to sketch). The trench excavations were approximately 40-feet long, 3 to 5-feet wide. The excavation disturbed fill to depths of 0.5 to 8.5-feet below ground surface (bgs).

The U.S. Environmental Protection Agency (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 made using a Ludlum Model 2221 survey meter (SN# 176944) and an unshielded 2 x 2 inch sodium iodide (NaI) probe Model 44-10. For the instruments used, the gamma count indicative of the USEPA removal action level of 7.1 pCi/g were 17,270 counts per minute (cpm) unshielded and 6,175 cpm shielded.

The field instrument gamma background of the area was recorded at a 2,500 cpm (shielded) at a ground level planter in close proximity to the excavations. Although none were observed for this project, 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.

The field gamma measurements within the excavation area and of the spoil materials generated during the excavation process did not exceed the field instrument threshold equivalent to the USEPA removal action level and ranged from a minimum of 900 cpm to a maximum of 3,100 cpm shielded. Thus, there was no indication of the presence of radiologically-contaminated fill soil and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

To fulfill the requirement of the CPDH permit this letter has been forwarded via email to:

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

Permit No.: DOT836709
Permit Address: 50 E. Ohio St.
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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: Verneta Simon, USEPA
Robert Wilson, Mobilitie

Attachments: CDPH Permit
Sketch

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): Robert Wilson Signature: [Handwritten Signature]

Site Address and Work Location (Describe exact site location and attach map): 50 E. Ohio Street (see attached construction drawings)

Nature of Work: Attach small cell wireless equipment to replacement light pole.

Company Name, Address, Phone No.: Mobilitie, LLC, 120 S. Riverside Plaza, Suite 1800, Chicago, IL, 60606, (312) 343-4882

General / Prime Contractor Name, Address, Phone No.: John Burns Construction Co., Chris Seibel, 17601 Southwest Hwy, Orland Park IL, 60467, 708 326 3350 (office); 708 670 6733 (mobile)
Include subcontractor information if applicable
Safety Officer / Phone No.

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

Check if City Department Work [] Department Name:

CDOT Permit No.: DOT836709

Today's Date: 07/26/2017 Expected Start Date: 8/10/2017 CDPH Approval / Date: [Handwritten Signature] 7-26-17

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



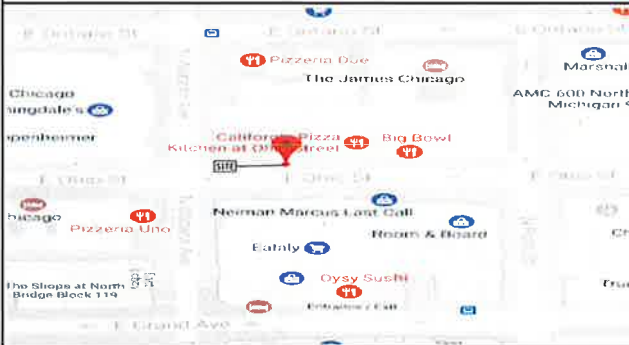
SITE ID

DASC_CH90XSGN8C

SITE ADDRESS

42ND WARD - 50 E. OHIO ST.

REGIONAL MAP



WORK ORDER NO. 11617010



PROFESSIONAL LICENSURE



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

BY	DESCRIPTION	DATE

PROJECT INFORMATION

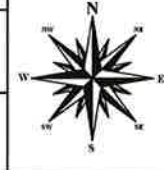
DESIGN BY:	NRJ
CHECKED BY:	MKR
DATE:	06-27-2017
PROJECT NO.:	CH90XSGN8C
(OUC DR# 2016-73355), (OUC EFP# 2017-1000)	
TITLE:	COVERSHEET
SHEET:	1 OF 16

VICINITY MAP



COORDINATES

LATITUDE:	41° 53' 33.28" N (41.892578)
LONGITUDE:	87° 37' 34.83" W (-87.626341)



INDEX OF SHEETS

SHEET NO.	SHEET TITLE
1	COVERSHEET
2	CODE MATRIX
3	POLE ELEVATIONS - SIDE VIEW
4	POLE ELEVATIONS - FRONT VIEW
5	EQUIPMENT DETAILS & LOADING REPORT
6	ELECTRICAL DETAILS
7	GROUNDING DETAILS
8	GENERAL NOTES
9	GENERAL NOTES
10	GENERAL NOTES
11	SITE PLAN
12	RESTORATION PLAN
13	PROFILES
14	CDOT STANDARDS
15	CDOT STANDARDS
16	TRAFFIC CONTROL

PROJECT INFORMATION

ADDRESS/CROSS ST:	50 E. OHIO ST., CHICAGO, IL 60611
COUNTY:	COOK COUNTY
UTILITIES:	POWER "COMED" TELEPHONE "AT&T" CABLE "COMCAST / RCN"
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	mobilitie, LLC



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PERMITTING

JURISDICTION:	CDOT
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PROJECT SUMMARY

END USER PROPOSES TO INSTALL EQUIPMENT ON EXISTING ALUMINUM LIGHT POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:
- INSTALL PROPOSED SMALL CELL EQUIPMENT

PROJECT CONTACTS

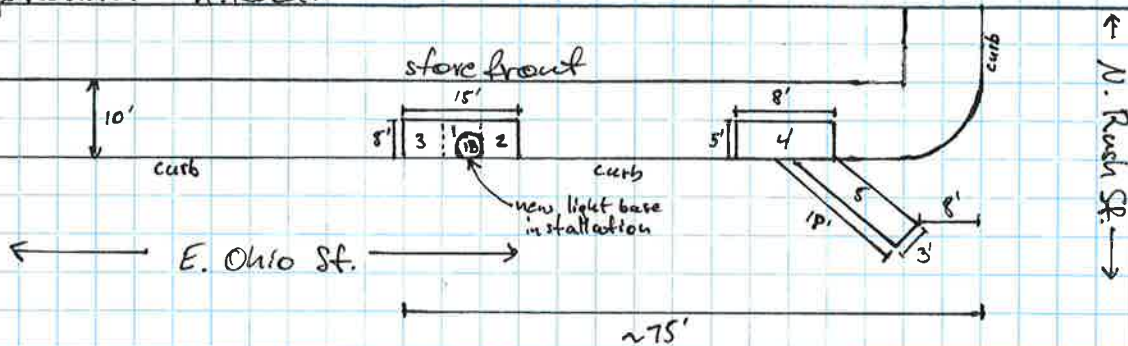
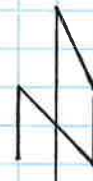
MOBILITIE	PROJECT MANAGER: ROBERT WILSON 120 S. RIVERSIDE PLAZA, CHICAGO, IL 60606 PHONE: 312-343-4882
EJM ENGINEERING, INC.	ENGINEER CONTACT: 411 S. WELLS ST., SUITE 1000 CHICAGO, IL 60607 PHONE: 312-922-1700

SKETCH

JOB TITLE JBCC 50 E. Ohio St. Wireless Equipment Installation
 JOB NO. 60537484.800 CALCULATION NO. _____
 ORIGINATOR A. Kozak DATE 8/9 - 8/11
 REVIEWER S. Koruder DATE 8/14/17
 SCALE 1 square = 5 feet SHEET NO. 1 OF 1

Survey Equipment

Ludlum 2221 S/N: 176944
 Probe 2x2 NaI S/N: R021187
 unshielded: 17,270 cpm
 shielded: 6,175 cpm
 background: 2,500 cpm
 personnel: A. Kozak



Survey Readings

Section	Depth	CPM (shielded)	Section	Depth	CPM (shielded)
①	0" (concrete)	—	②	0" (concrete)	—
	6" (sub-base)	1,300 - 2,200		6" (sub-base)	1,300 - 2,000
ⓑ	24"	1,100 - 1,450		24"	1,500 - 2,300
	42"	1,400 - 1,600	③	0" (concrete)	—
	58"	1,300 - 1,800		6" (sub-base)	1,400 - 1,700
	76"	1,600 - 2,000	④	0" (concrete)	—
	84"	1,700 - 2,200		6" (sub-base)	1,500 - 2,300
				24"	1,800 - 3,100
			⑤	0" (concrete)	—
				16"	900 - 1,160
				27"	1,500 - 2,100