



Ms. Rahmat Begum  
City of Chicago Department of Environment  
30 North LaSalle St.  
25<sup>th</sup> Floor  
Chicago, IL 60602

ARCADIS-US, Inc.  
630 Tollgate Road  
Suite D  
Elgin  
Illinois 60123  
Tel 847.695.8855  
Fax 847.695.7799  
[www.arcadis-us.com](http://www.arcadis-us.com)

Subject:

**City of Chicago Radiological Thorium Monitoring for Water Suppression Line Environmental Investigation at ComEd's IC Air Rights TDC 745 Substation, 201 N Columbus Drive, Chicago, Illinois**

Dear Ms. Begum:

Date:  
07/29/2010

This letter report documents radiological thorium monitoring activities related to an environmental investigation for construction of a new water line at Commonwealth Edison Company's (ComEd's) IC Air Rights TDC 745 Substation located at 201 N Columbus Drive, Chicago, Illinois ("the Site").

Contact:  
Wei-Lin Feng

Phone:  
847.649.2022

On July 22, 2010, ARCADIS-US, Inc. (ARCADIS) performed environmental soil boring testing in the public right of way near Commonwealth Edison's (ComEd's) IC Air Rights Substation at the northeast corner of E Lake Street and N Columbus Drive in Chicago, IL ("the Site"). In accordance with the attached permit issued by the City of Chicago, radiation monitoring was performed at the Site.

Email:  
[WeiLin.Feng@arcadis-us.com](mailto:WeiLin.Feng@arcadis-us.com)

Our ref: EGO.12447.0000

ARCADIS' hired Joel Ahrweiler, HP Tech from Stan A. Huber Consultants, Inc. (SAHCI) of New Lenox, IL, to perform surveys at the site using a Ludlum Model 2221 Scaler / Ratemeter with attached 2"x2" NaI probe (serial no. 134542). The action level representing the USEPA threshold of 7.1 pCi/g for this meter is 17,774 counts per minute (cpm). The background count rate measured by SAHCI for this location was approximately 4000 cpm as measured by SAHCI.

Surveys were performed of all soil removed from two separate 1.8" diameter geoprobe soil borings taken to 9 feet below ground surface. The boring locations can be seen in the attached Fire Protection Design Plans. Both borings were performed by K&S Engineers, Inc. of Highland, IN under the supervision of ARCADIS' field engineer. The maximum count rate for the first boring was 4300 cpm and the second boring was 4200 cpm as determined by SAHCI. Both borings were well below the action level of 17,774 cpm, thus no further actions were taken at the Site.

Imagine the result

# ARCADIS

If you have any questions or need additional information, please contact us at (847) 649-2022 or (847) 649-2048.

Sincerely,



Wei-Lin Feng, P.E., P.G.  
Principal  
ILLINOIS P.E. # 062-048678



Scott Nellis, EIT  
Staff Engineer

Cc: Verneta Simon, US EPA  
Sara Race, ComEd  
Willie Thomas, ComEd  
Eugene O'Donnell, ComEd

**ARCADIS**

**Attachments**

**Permit # 769584484**

Received Date: Jul 14, 2010 1:39:3

**K & S ENGINEERS, INC.  
9715 KENNEDY AVENUE  
HIGHLAND, IN 46322**



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

**MICHELLE DEAL 219-924-5231**

### ACTIVITY HOURS

See **RESTRICTIONS** for permitted hours

### DATES

**Jul 19, 2010 through Jul 30, 2010**

### ACTIVITIES

#### Soil Borings:

**Dig #: TBD**

2 Soil Borings will be at this location.

Excavation may commence on - **NO SOONER.**

201 N COLUMBUS DR

APPROVAL FROM DEPT OF ENVIRONMENT BY R. BEGUM, 7/16/10

OK'D JMAC

#### 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. Contractor must notify **DIGGER** at 312-744-7000 no less than 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more than 14 calendar days in advance of the start of the

**K & S ENGINEERS, INC.**

**Permit # 769584484**

**Counter**

**Page #: 1**

5181028755

769711978

Tuesday

3:20 pm

(clear to)

**Restrictions:**

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 renew the dig date!

4. 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.
5. 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.
6. 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.
7. Maintain pedestrian and vehicular traffic at all times.
8. All pavements are to be restored in accordance with CDOT Construction Standards.
9. Pavement opening to be backfilled to grade/or plated during off work hours.
10. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
11. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
12. Permittee to provide all barricades, signs and/or flagmen as necessary.
13. Work permitted only between 9:30 AM and 3:30 PM.
14. Contractors to post signs to indicate: **BIKE LANE CLOSED - SHARED LANE YIELD TO BIKES.**

It is also the permit holder's responsibility to restore to original condition any damage to any bikeway, including replacement pavement markings and signage. You must contact Ben Gomberg (312) 744-8093 48 hours in advance of any activity.

15. 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.
16. It is the responsibility of the applicant to fund Traffic Control Aides if the City deems it necessary due to heavy congestion situations.
17. 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.

**Soil Borings**

07-16-2010 -- Fee for Activity  
CBD: Y Cost Per EA: \$ 354.00 CAPS: 300-84-2135-255  
Tiered: N # Of EA: 1.00 Late charge: \$ .00  
Mora: N Amount: \$ 354.00

**Total Fees: S 354.00**

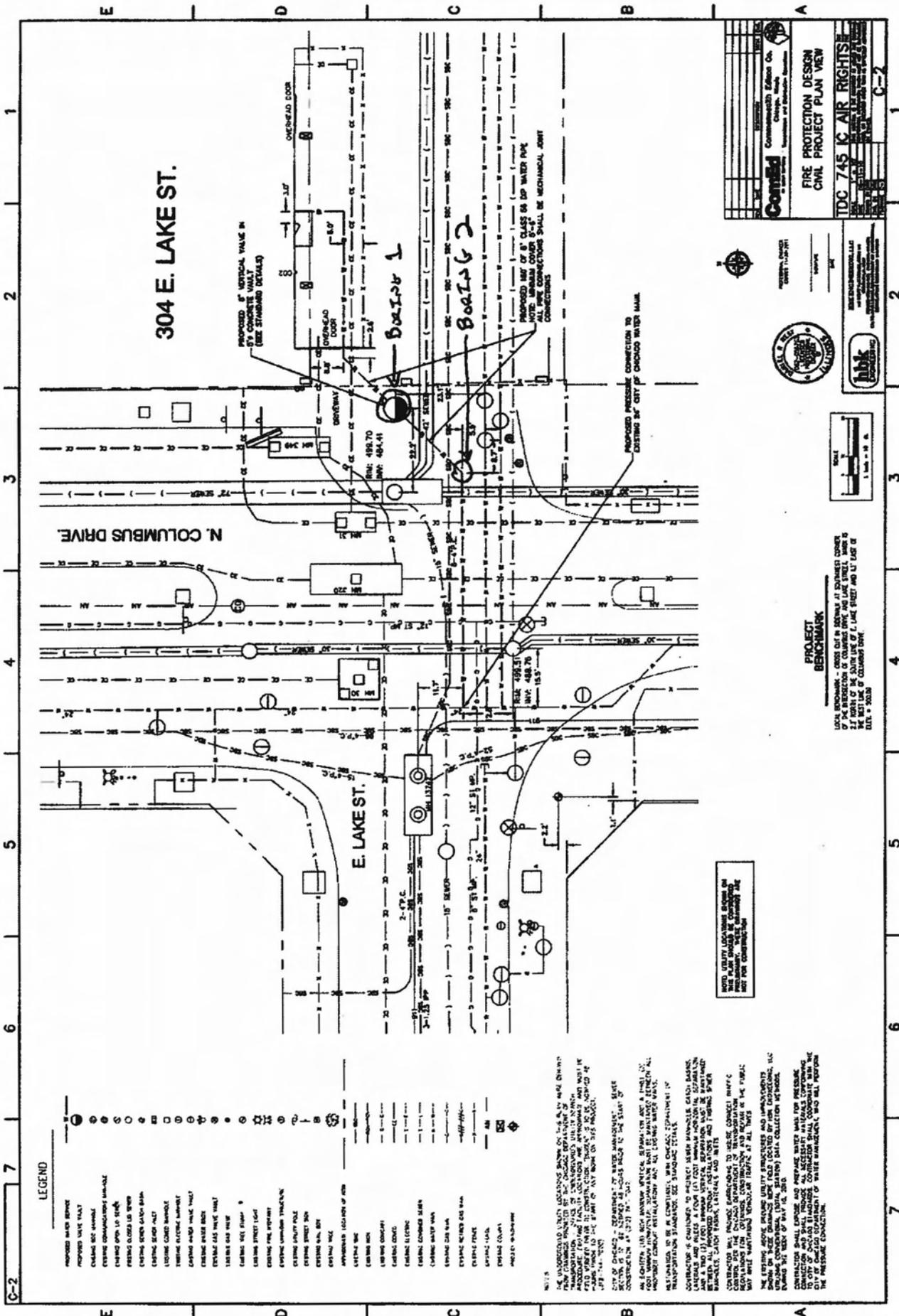
**Grand Total Fees: S 354.00**

Affected CUAN Sites: 7, 15, 18, 20, 21, 22, 24, 28, 29, 31, 34, 36, 38, 53, 61, 65, 68, 86, 141, 147

**EFFECTIVE DATES OF PERMIT**

Current: Jul 19, 2010 through Jul 30, 2010 ( Input date: Jul 14, 2010 1:39:03 p.m. )

**END OF PERMIT**



304 E. LAKE ST.

N. COLUMBUS DRIVE

E. LAKE ST.

**LEGEND**

- PROPOSED WATER SERVICE
- PROPOSED WATER VALVE
- CHANGED 8\"/>
- EXISTING COMMUNICATIONS MANHOLE
- CHANGED 18\"/>
- EXISTING CLOSED 18\"/>
- EXISTING OPEN 18\"/>
- EXISTING 8\"/>
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