



**AECOM**  
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EPA Region 5 Records Ctr.



375793

August 19, 2010

Mr. Narendra Prasad  
Integrus Business Support, LLC  
Environmental Services Department  
130 East Randolph, 22nd Floor  
Chicago, IL 60601

**Subject: Radiological Survey of Right-of-Way Utility Excavation  
Permit No 764468990  
Permit Address: 248 East South Water Street  
AECOM Project No 60157647**

Dear Mr. Prasad:

Pursuant to conditions specified in the permit found in Attachment A issued by the City of Chicago, radiation monitoring was required to be performed at the above referenced site. AECOM provided the required radiation surveillance on July 28, 2010 for the excavation a single one foot by one foot excavation opening to install corrosion protection materials for the gas main in the vicinity of the permitted address.

Surveying was performed for the asphalt, concrete, and soil removal for the excavations required for the installation of corrosion protection equipment for the gas main. A one foot by one foot area was saw cut into the asphalt and concrete surface, exposing the structural backfill material located below approximately 36 feet south of the North Lot Line of East South Water Street and 20 feet east of the West Lot Line of North Columbus Drive. Documentation of the excavation location provided by INTREN can be found in Attachment B. After asphalt and concrete were removed, the installation contractor, INTREN, utilized a soil vacuum truck to remove subsurface soils to expose the main due to the minimal area of excavation. AECOM proceeded to monitor the soils in increments of approximately 15-inches to a depth of approximately 3-feet. Please note that the depth to which the Ludlum Model 2221 survey meter used by AECOM is designed to detect gamma radiation counts above the threshold level is at 18 inch increments. Surveyed soils were retained to backfill into the excavation upon completion of the installation of the corrosion detection materials.

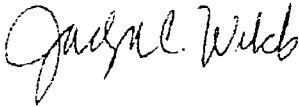
The monitoring revealed no indication of soils above the specified clean-up threshold established by the United States Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA threshold for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g total radium (Ra-226 + Ra-228). Gamma radiation count measurements for the project were made using Ludlum Model 2221 survey meter and an unshielded 2 x 2 NaI probe (Model 44-10) with a 20-foot long cord due to the depth of excavations. For the instrument used, the gamma count indicative of the 7.1 pCi/g threshold was 7,567 counts per minute (cpm) unshielded. The field gamma measurements within the excavation and the spoil materials generated during the excavation process did not exceed the respective threshold values previously stated and ranged from a minimum of 1,600 cpm to a maximum of 2,900 cpm. Thus, there was no indication of the presence of radiologically-impacted material and/or an exceedance of the USEPA cleanup threshold of 7.1 pCi/g total radium.

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

Chicago Department of Environment  
Attention: Ms. Rahmat Begum  
30 North LaSalle Street, 25<sup>th</sup> Floor  
Chicago, Illinois 60602

Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Jaclyn C. Webb  
Staff Engineer



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

cc: Rahmat Begum, Chicago Department of Environment  
Verneta Simon, USEPA

Attachment A Permit  
Attachment B Excavation Location

## **Attachment A**

### **Permit**



CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT
FORM NO. DOE.ROW.02

City of Chicago
Richard M. Daley, Mayor

Department of Environment

Sadhu A. Johnston
Commissioner

Twenty-fifth Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575
(312) 744-7606 (Voice)
(312) 744-6451 (FAX)
(312) 744-3586 (TTY)
http://www.cityofchicago.org

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Environment 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 the Department of Environment at 30 N. LaSalle St., 25th Floor, Chicago, Illinois 60602 during normal business hours (8:30AM -4:30PM, Monday through Friday). Contact (312) 744-7606 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 the Department of Environment, 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 Department of Environment 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.

Permit No. 764468990

Date 6/4/10

Site Address

248 E. South Water St.

Work Location (Describe exact site location and attach map)

Street, sidewalk, heavy, curbside, traffic lane

Nature of Work

Construction

Expected Start Date

ASAP

Applicant Name (print) Maria G. Oliver

Signature Maria G. Oliver Date 6/4/10

Company Peoples Gas

Company Address / Phone No. 130 E. Randolph (312) 240-4692

Check if City Department Work [ ] Department Name

General / Prime Contractor Sal Balani

Include subcontractor information if applicable

Address 130 E. Randolph

Phone No. (773) 395-7446

Safety Officer / Phone No. Jake Wilken (773) 542-7838

Radiation Contractor / Phone No. (if applicable) Steve Konder AECOM (773) 279-2500

Department of Environment Approval / Date Felicitas Began 6/4/10

Please return this completed form to the City of Chicago Department of Transportation at 30 N. LaSalle St., Room 1101, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday).

For DOE Use Only



**Attachment B**  
**Excavation Location**

# MAIN MAINTENANCE TICKET

ADDRESS

248 E. S. Water

MAIN LOCATION				LOCATION FROM INTERSECTING STREET					
FEET FROM LL	NSEW OF	NSEW LL	PROD. DIR.	FEET FROM LL	NSEW OF	NSEW LL	DIR.	INTERSECTING STREET	PROD. DIR.
36	S	N		20	E	W	N	Lower Columbus Dr.	

SIZE	KIND (CIRCLE ONE)	PRESSURE	DEPTH OF MAIN	CONDITION OF MAIN: (CIRCLE ONE)	IF MAIN CONDITION IS POOR, WAS COUPON TAKEN?
30"	C - CAST IRON C - DUCTILE IRON <b>S - STEEL COR PRO</b> P - PLASTIC OTHER	<b>LOW</b> MEDIUM HIGH	3 FT. 0 IN.	<b>GOOD</b> POOR NOT EXPOSED	YES  NO

WORK PERFORMED: (CIRCLE ONE)	ON WHAT? (CIRCLE ONE)	REASON FOR WORK (CIRCLE ONE)							
<p style="text-align: center;"><u>JOB CODE</u></p> <p>26 - EXTERNAL SEALANT ..... (MILLER) 206</p> <p>33 - INJECTED SEALANT ..... (PERMABOND) 436</p> <p>18 - B-BOX/BASIN MAINTENANCE ..... 348</p> <p>19 - TEST HOLE ..... 248</p> <p>60 - MAIN REPLACEMENT (Kind for Kind) ..... 260</p> <p>99 - OTHER ..... 265</p> <p style="text-align: center;"><u>MANUF. CD.</u></p> <p>3 - BAND CLAMP ..... 51-DRESSER 406 53-SMITH BLAIR</p> <p><u>CORROSION WORK</u></p> <p>51 - INSTALL TEST LEAD &amp; ANODE ..... 951</p> <p>52 - INSTALL ANODE ..... <b>952</b></p> <p>54 - B-BOX MAINTENANCE ..... 954</p> <p>56 - CLEAR SHORT ..... 956</p> <p>59 - INSULATE/REINSULATE ..... 959</p> <p>67 - OTHER CORROSION WORK ..... 967</p>	<p>35 - BELL JOINT</p> <p>15 - MECHANICAL JOINT</p> <p>6 - COMPRESSION COUPLING</p> <p>13 - BROKEN MAIN</p> <p>14 - CRACK AT TAP</p> <p>31 - CORROSION HOLE IN MAIN</p> <p>20 - VALVE</p> <p>9 - DRIP/SYPHON</p> <p><b>99</b> OTHER</p>	<p>1 - LEAK</p> <p>3 - PUBLIC IMPROVEMENT</p> <p><b>4</b> CATHODIC PROTECTION</p> <p>6 - THIRD PARTY DAMAGE</p> <p>5 - OTHER</p>							
PRESSURE TEST INFO (REQUIRED for all installed piping)									
INSTALLED PRE-TESTED PIPE: YES NO									
PRE-TESTED PIPE CONTROL NO: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>									
PRESSURE TEST: YES NO    PSI: _____    MINUTES: _____									

RESTORATION SIZE	OPENING DESCRIPTION
1 FT. X 1 FT.	<input checked="" type="checkbox"/> STREET <input type="checkbox"/> ALLEY <input type="checkbox"/> PKWY <input type="checkbox"/> WALK <input type="checkbox"/> INS-LL <input checked="" type="checkbox"/> ASPH <input type="checkbox"/> LAWN <input type="checkbox"/> CONC <input type="checkbox"/> DIRT
_____ FT. X _____ FT.	<input type="checkbox"/> STREET <input type="checkbox"/> ALLEY <input type="checkbox"/> PKWY <input type="checkbox"/> WALK <input type="checkbox"/> INS-LL <input type="checkbox"/> ASPH <input type="checkbox"/> LAWN <input type="checkbox"/> CONC <input type="checkbox"/> DIRT

DESCRIPTION OF WORK OR REMARKS

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CREW REPORT		
PREPARED BY	EMPLOYEE NUMBER	DATE
J. Burton	Inken	7-28-2010



Facility

Address (PGL)

10 N Randolph



**Address Location**

**Address Range**

00 - 327 N RANDOLPH ST  
WACKER ER

