



AECOM  
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Chicago, Illinois 60606

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October 9, 2016

Jerome Murphy  
Powers Construction  
8750 W. Bryn Mawr Ave., Suite 500  
Chicago, Illinois 60631

RE: Radiological Survey of Electrical Utilities Installation (ComEd)  
Permit No.: 600147654 (Digger)  
Permit Address: 465 N. Park Ave., Chicago, Illinois  
AECOM Project No. 60508241

Dear Mr. Murphy:

Pursuant to conditions specified in a permit (see attached) issued by the City of 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 surveillance on August 29, 30, and 31, 2016 for an installation of an electrical utilities installation.

Surveying was performed within the excavation and on the spoil removed at 465 N. Park Ave. (refer to sketch). The excavation involved removal of concrete and additional trench excavations. Powers Construction sub-contractor (Meade) removed concrete sidewalk approximately 150-feet long by 2-feet wide. The additional trench excavation was within the removed concrete areas and was approximately the same dimensions to a depth of 3-feet below ground surface (bgs).

The monitoring did not indicate that the fill soils were above the removal action level established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The 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 recorded using Ludlum Models 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used, the gamma count threshold indicative of the 7.1 pCi/g removal action level is 18,273 (S/N: 176944) counts per minute (cpm) unshielded.

The field gamma measurements within the excavations and of the spoil during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 4,100 cpm to a maximum of 16,600 cpm unshielded. Based on field observations there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium. A copy of the permit and a field sketch documenting the area where work was performed, have been included as attachments.

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

Chicago Department of Public Health  
Attention: Ms. Rahmat Begum  
333 South State Street, Room 200  
Chicago, Illinois 60604

Permit Address: 465 N. Park Ave.  
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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 Geoscientist

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

Attachments: Sketch

**SKETCH**

Survey Equipment

Ludlum 2221 S/N: 176944

Probe 2x2 Nat S/N: RN21192

unshielded: 18,273 cpm

shielded: 6,123 cpm

background: 6,900

source block: 23,000

personnel: K. Kozak

