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July 3, 2013

Ms. Verneta Simon, On-Scene Coordinator
US Environmental Protection Agency - Region 5
77 W. Jackson Blvd., SE-5J
Chicago, Illinois 60604-3590

RE: Radiological Screening Results for the Sidewalk on the Northeast Corner of E. Illinois Street and N. Peshtigo Court., AECOM Project No. 60219374

Dear Ms. Simon:

AECOM Technical Services, Inc. (AECOM) is providing a letter report for the radiological screening and analytical activities conducted in the rights-of-way (ROW) adjacent to the project site (515 N. Peshtigo Court). The letter report is being provided so that the results can be documented on the United States Environmental Protection Agency's (USEPA) website along with other ROW projects. The 515 N. Peshtigo property (Site) and ROW surveying and remediation work was conducted in accordance with USEPA Order on Consent for Removal Action (Docket No. V-W-11-C-976).

On August 30, 2011 elevated gamma readings were observed about three feet below the asphalt pavement (8.75 ft CCD) on the Site in the vicinity of the sidewalk (refer to sketch). Gamma readings (unshielded) had a maximum of about 95,000 cpm. Gamma measurements were made using Ludlum Model 2221 survey meter and a 2-inch x 2-inch NaI probe (Model 44-10). For the instrument used on August 30, 2011 the gamma count equivalent to the 7.1 pCi/g total radium USEPA cleanup threshold was 17,920 counts per minute (cpm) unshielded. The field gamma background for the area was measured at approximately 5,800 cpm unshielded.

This thorium contamination on the Site in the vicinity of the sidewalk was remediated in September 2011. However, a small portion of the contamination immediately adjacent (north) to the sidewalk could not be completely remediated because of concerns with a utility pole. Additional remediation was conducted on December 2, 2011 after the sidewalk was closed to pedestrian traffic and the utility pole had been removed. This remediation was conducted to completely remove the radiologically contaminated soil immediately north of the property boundary, but extended slightly into the adjacent ROW. Further remediation within the ROW was not conducted because of the presence of utilities beneath the sidewalk (i.e., gas, electric and water). Successful verification (remediation) forms were signed by the USEPA for the remediation work conducted on the Site.

The final stages of the Site construction work called for the replacement of the existing sidewalk within the ROW. On March 25, 2013 surveying activities for installation of a new sidewalk and street curb were conducted in the vicinity of the corner of N. Peshtigo Ct. and E. Illinois St (refer to sketch). During the sidewalk and street curb replacement process the excavation of soil and/or subgrade beneath the sidewalk was not necessary as part of these improvements. Surface gamma readings of the soil beneath the former sidewalk along E. Illinois Street ranged between 7,100 and 9,800 cpm. In the immediate vicinity of the area of the potential contamination the surface gamma readings were 8,400 to 9,500 cpm. The unshielded Ludlum threshold value equivalent to the USEPA cleanup value of 7.1 pCi/g total radium was 17,920 cpm. Thus, no elevated gamma readings indicative of radiologically-contaminated fill soil were observed at the surface beneath the former sidewalk.

Please contact us if there are any questions regarding this report.

Sincerely,

Brian R. Schmidt

Steven C. Kornder, Ph.D.

Attachments: Location Sketch

cc:

E. Jablonowski, USEPA

L. Koch, Midwest Related

AECOM

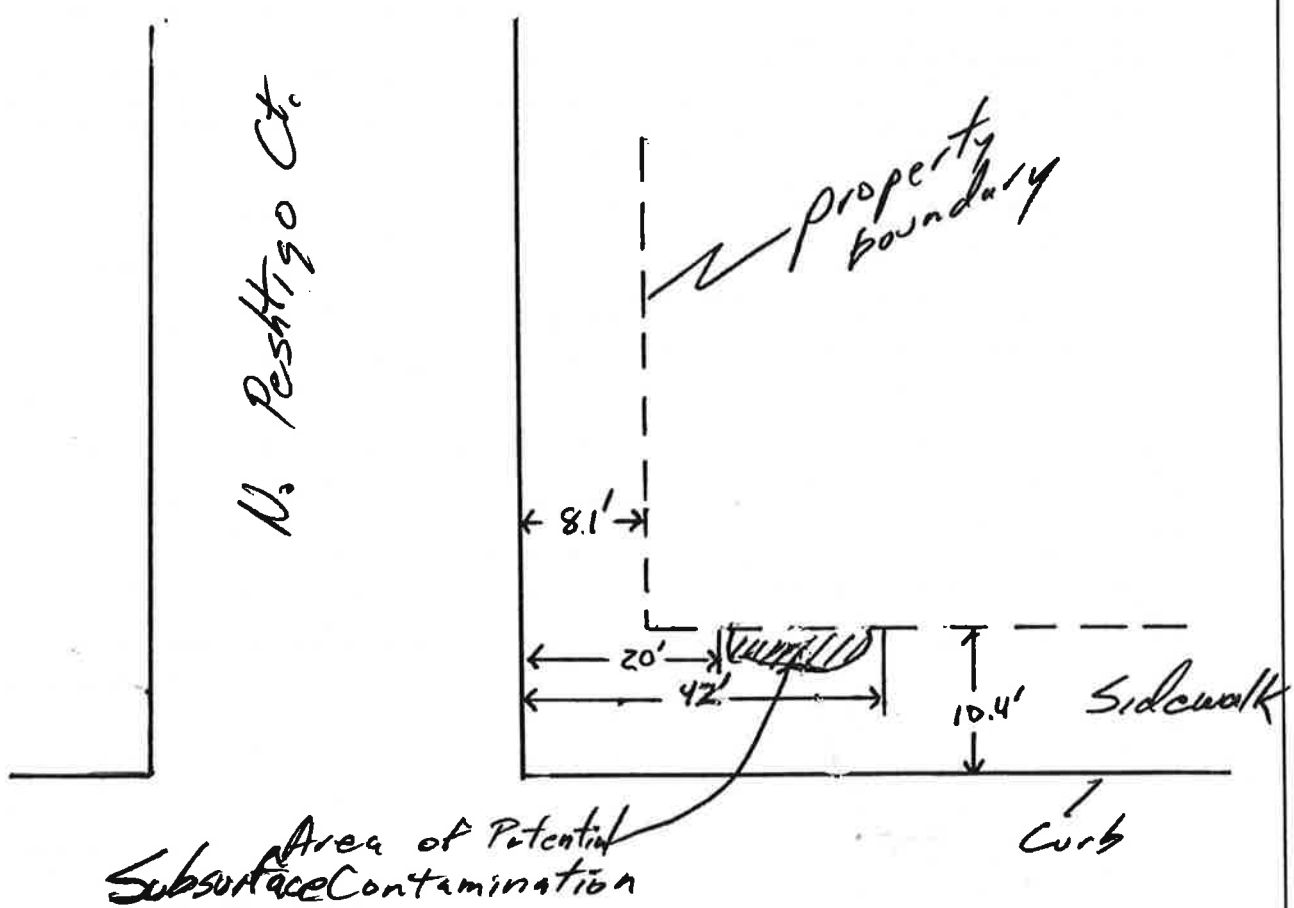
JOB TITLE Sidewalk Replacement - E Illinois
JOB NO. 60219374 CALCULATION NO. 1
ORIGINATOR SCK DATE 3/25/13
REVIEWER BRS DATE 6/25/13
SCALE none SHEET NO. 1 OF 1

3/25/13 9AM

resurvey in surface after removal of sidewalk concrete in area of potential contamination.

Surface gamma = 8,400 - 9,500 cpm
Background = 5,800 cpm

↑N



E. Illinois St.

Ludlum
SN# 178944
Probe #98196
7.1 pCi/g Cutoff = 17,920 cpm
Unshielded

Grid: 10x10 = 1"