



November 2, 2016

Bill Zebrauskas  
Western Utility Contractors, Inc.  
2565 Palmer Ave.  
University Park, IL 60466

RE: 211 E. Ohio St. Thorium Monitoring on 10/27/16  
CDOT Permit No. 713444

Dear Mr. Zebrauskas:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation to repair a Comcast conduit in the alley at 211 E. Ohio St. in Chicago, Illinois. The monitoring was performed by Steve Kowalczyk on October 27, 2016.

#### Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaled / Ratemeter (serial no. 127242) with attached 2"x2" NaI probe (w/ 6" collimated lead shield). The instrument was calibrated on August 8, 2016. The USEPA action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,738 counts per minute (cpm).

The average background count rate for this location was determined to be 2,160 cpm.

#### Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected by entering the excavation after each 18 inch lift and recording the highest count rate for the floors and walls to a maximum excavation depth of 3 feet. All soil was loaded directly into a truck for disposal.

The maximum gamma count rate for each lift was recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 2,692 cpm to 3,037 cpm. No count rates were found at any time that exceeded the threshold limit of 6,738 cpm.

Additional Monitoring

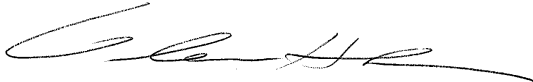
Since no count rates were identified above the 7.1 pCi/gram threshold limit, no additional soil sampling, air monitoring, or personnel monitoring were performed.

Regulatory Notification of Survey Completion

I will be providing a copy of this report to both the City of Chicago Department of Public Health and US Environmental Protection Agency, as required.

Thank you for your assistance with this project. If you have any questions or need additional information, please call me at (815) 485-6161.

Sincerely,  
Stan A. Huber Consultants, Inc.

A handwritten signature in black ink, appearing to read 'G. Huber', written in a cursive style.

Glenn Huber, CHP  
President

## Radiation Survey Form

Location/ Project ID: Western Utility Contractors 211 E. Ohio St.

Date: 10/27/16

Technician: Steven Kowalczyk

Inst Model: Cudlum 2221

Serial No.: 127242

Probe Type: 1"x1" NaI / 2"x2" NaI  
Shielded / Not Shielded

Lift Elevation: 1'-3'

Background 2,160 cpm

Action Level: 6,738 cpm

Write grid designations in circles. Record highest counts for grid in cpm. Record 30 second counts at grid intersections (if required). Shade areas of elevated counts and record max cpm.

