

October 20, 2025

705368

Cody Giunti
Meade Electric
6850 W. 62nd St.
Chicago, IL 60638

RE: 441 E. Randolph St. Thorium Monitoring
CDOT Permit: 2157113

Dear Mr. Giunti:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the excavation for removal of a sidewalk handhole at 441 E. Randolph St. in Chicago, Illinois. The monitoring was performed by Jeremy Kieser, SAHCI Health Physics Technician, on October 10, 2025.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126496) with attached Ludlum Model 44-10 2"x2" NaI Detector (w/ 6" collimated lead shield). The instrument was calibrated on May 6, 2025. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,656 counts per minute (cpm).

The average background count rate for this location was measured at 1,766 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 2 feet by 3 feet sidewalk excavation and recording the highest count rate for the floor and walls to a maximum depth of 18 inches below ground surface. All concrete and soil were loaded directly into a truck for disposal after screening.

The maximum gamma count rates for the surface and single 18-inch lift were recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 1,700 cpm to 2,400 cpm. No count rates were found at any time that exceeded the threshold limit of 6,656 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.

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.



Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: 441 E. Randolph St. Meade Electric Handhole Removal

Date: 10/10/25

Technician: Jeremy Kieser

Inst Model: Ludlum 2221

Serial No.: 126496

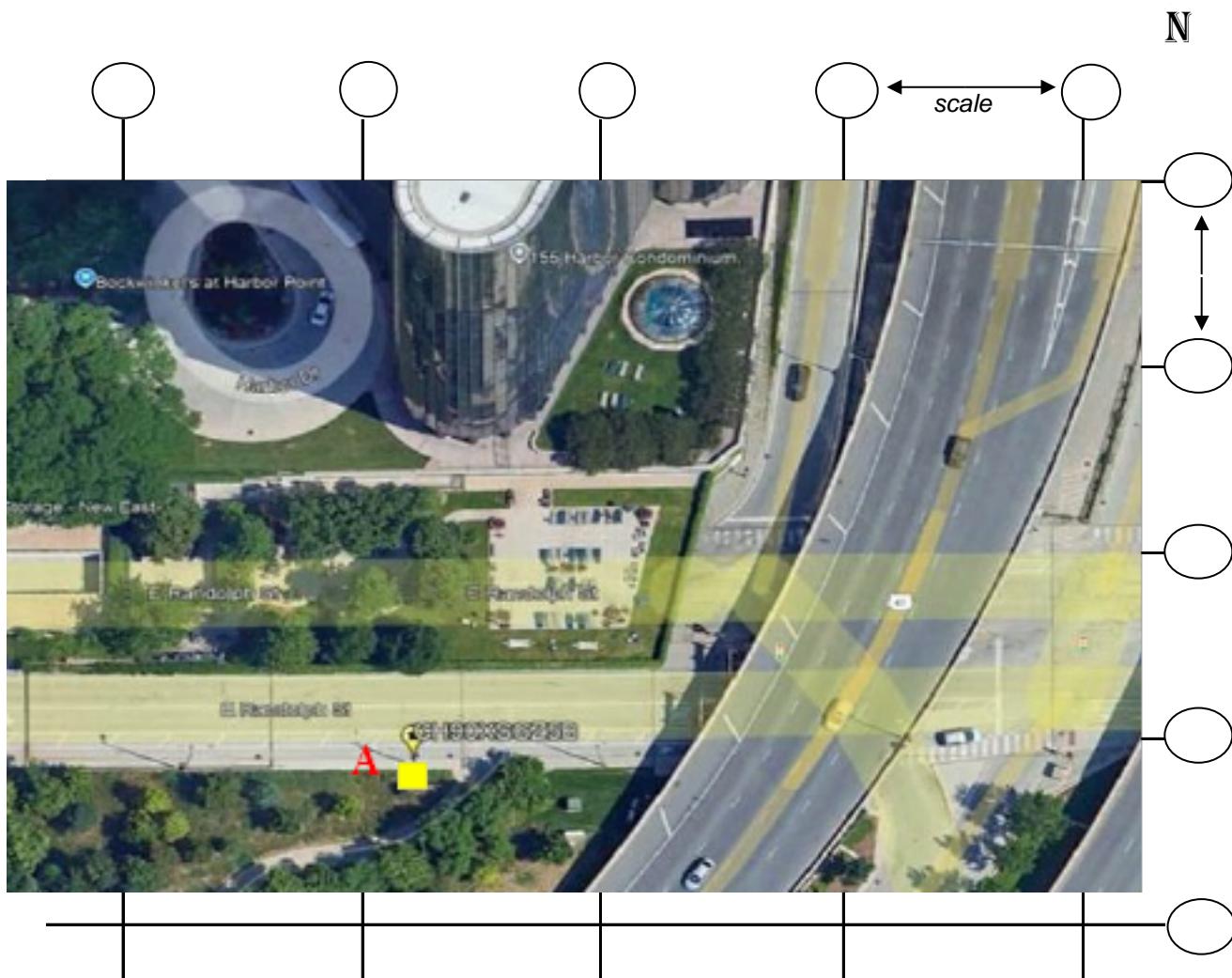
Probe Type: 1"x1" NaI / 2"x2" NaI
 Shielded / Not Shielded

Lift Elevation: Surface to -18"

Background 1,766 **cpm**

Action Level: 6,656 **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.



Excavation = 2' x 3'
Location A

<u>Depth</u>	<u>CPM</u>
Surface	1700
-18"	2400