



February 9, 2026

Angel Camacho
SET Environmental
450 Sumac Road
Wheeling, Illinois 60090

RE: Thorium Monitoring – City of Chicago Department of Water Management
CDOT Permit: 2200812 448 E. North Water St.

Dear Mr. Camacho:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation for a Chicago Department of Water Management fire hydrant installation at 448 E. North Water St. in Chicago, Illinois. The monitoring was performed by Aaron Morris, SAHCI Health Physicist, on January 30, 2026. All activities were conducted under the guidance of document *SET General Procedure for Thorium Monitoring*.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 132844) 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 7,141 counts per minute (cpm).

The average background count rate for this location was 1,415 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected by scanning the surface and walls of the excavation to a maximum depth of 90 inches below ground surface. Excavated material 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 ranged from 1,245 cpm to 2,342 cpm. No count rates were found at any time that exceeded the threshold limit of 7,141 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.

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

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: 448 E. North Water St. DWM Hydrant Install

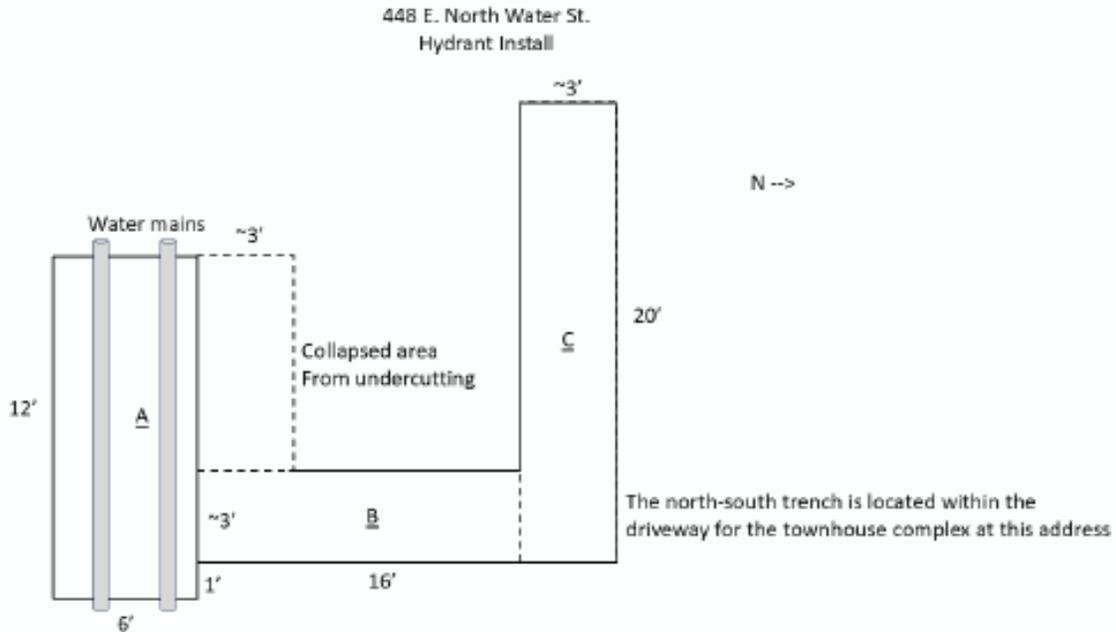
Date: 1/30/26 **Technician:** Aaron Morris

Inst Model: Ludlum 2221 **Serial No. :** 132844

Probe Type: 1"x1" NaI / (2"x2" NaI)
Shielded / Not Shielded **Lift Elevation:** Surface to -90"

Background 1,415 cpm **Action Level:** 7,141 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.



Maximum Readings (gross cpm)

Depth:	Area:	A	A (collapsed)	B	C
Sub-slab		1528	N/A	1769	1771
1.5'		1453	N/A	1956	2342
3'		1440	1341	2308	1340
4.5'		1482	1404	1607	1950
6'		1502	N/A	1680	1938
7.5'		1245	N/A	N/A	N/A

Note: The slab over the collapsed area fell after the fill chips flowed into area A.

Note: Survey Form compiled by Glenn Huber from Aaron Morris field notes. GAH 2/9/26