



June 14, 2023

983802

Ed McGinley
Sanchez Construction Services
1950 W 43rd St.
Chicago, IL 60609

RE: Thorium Monitoring 649-700 N. St. Clair St.
CDOT Permit: 1798939

Dear Mr. McGinley:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during sidewalk and curb replacement at 649-700 N. St. Clair St. in Chicago, Illinois. The monitoring was performed by Brian Schmidt, SAHCI Health Physics Technician, on June 12, 2023.

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 9, 2023. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 5,986 counts per minute (cpm).

The average background count rate for this location was measured at 1,732 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 and recording the highest count rate on the floors and walls to a depth of 6 inches below ground surface. All concrete 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 1,600 cpm to 1,800 cpm. No count rates were found at any time that exceeded the threshold limit of 5,986 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: NW CORNER OF EME ST. + ST CLAIR ST - SIDEWALK REMOVAL *Now Radiological Soil Survey*

Date: 6/12/2023 Technician: BRIGGS SCHEIDT

Inst Model: WOLVER-2221 Serial No.: 126496

Probe Type: 1"x1" NaI / 2"x2" NaI Shielded / Not Shielded Lift Elevation: 0-6"

Background 1732 cpm Action Level: 5986 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.

