



December 22, 2022

979175

Warren Cherner
Metro Tank and Pump Co.
1111 W Dundee Rd
Wheeling, IL 60090

RE: Thorium Monitoring – 455 N. Cityfront Plaza Dr. (Private Property)
Dig Ticket: 601282288

Dear Mr. Cherner:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation for installation of a cathodic protection anode at 455 N. Cityfront Plaza Dr. in Chicago, Illinois. The monitoring was performed by Brian Schmidt, SAHCI Health Physics Technician, on December 21, 2022.

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 last calibrated on May 3, 2022. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,819 counts per minute (cpm).

The background count rate for this location was measured at 1,710 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 for the floor and walls to a depth of 42 inches below ground surface.

The maximum gamma count rates on the surface and each lift were recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 1,600 cpm to 2,400 cpm. No count rates were found at any time that exceeded the threshold limit of 7,819 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", with a stylized flourish at the end.

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: METRO - My ADOBE - UST INSTALLATION EXCAVATION - RADIOLOGICAL SOIL SURVEY

Date: 12/21/22 Technician: BRIAN SCHMIDT

Inst Model: LUDLUM-2221 Serial No.: 126496

Probe Type: 1"x1" NaI / 2"x2" NaI / Shielded / Not Shielded Lift Elevation: 0-42"

Background 110 cpm Action Level: 7819 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.

