



April 5, 2022

974046

Angel Camacho
SET Environmental
450 Sumac Road
Wheeling, Illinois 60090

RE: Thorium Monitoring – 500 E. Lower Wacker Dr.
City of Chicago Dept. of Assets, Information, and Services (AIS)
Dig Ticket: 601139822

Dear Mr. Camacho:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation for installation of fencing and a gate at the City of Chicago Central Auto Pound located at 500 E. Lower Wacker Drive. Monitoring for the fence installation was performed on March 15 and March 16, 2022, by Jeremy Kieser, SAHCI Health Physics Technician. All activities were conducted under the guidance of document *SET General Procedure for Thorium Monitoring*.

The address of this project was originally identified as 400 E. Lower Wacker Drive. The radiation monitoring work plan and dig ticket also used this address when they were submitted. The address of this location has since been revised to 500 E. Lower Wacker Drive.

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 both calibrated on May 5, 2021. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,572 counts per minute (cpm).

The average background count rate for this location was 1,448 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected by lowering the detector into the excavations and recording the highest count rate for the floor and walls to a maximum excavation depth of 24 inches below ground surface.

The maximum gamma count rate for each lift was recorded on the attached Radiation Survey Form. The count rates in the excavations ranged from 1,300 cpm to 2,500 cpm. No count rates were found at any time that exceeded the threshold limit of 7,572 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:

Date: March 15 & 16, 2022

Technician: Jeremy Kieser

Inst Model: 2221

Serial No.: 132844

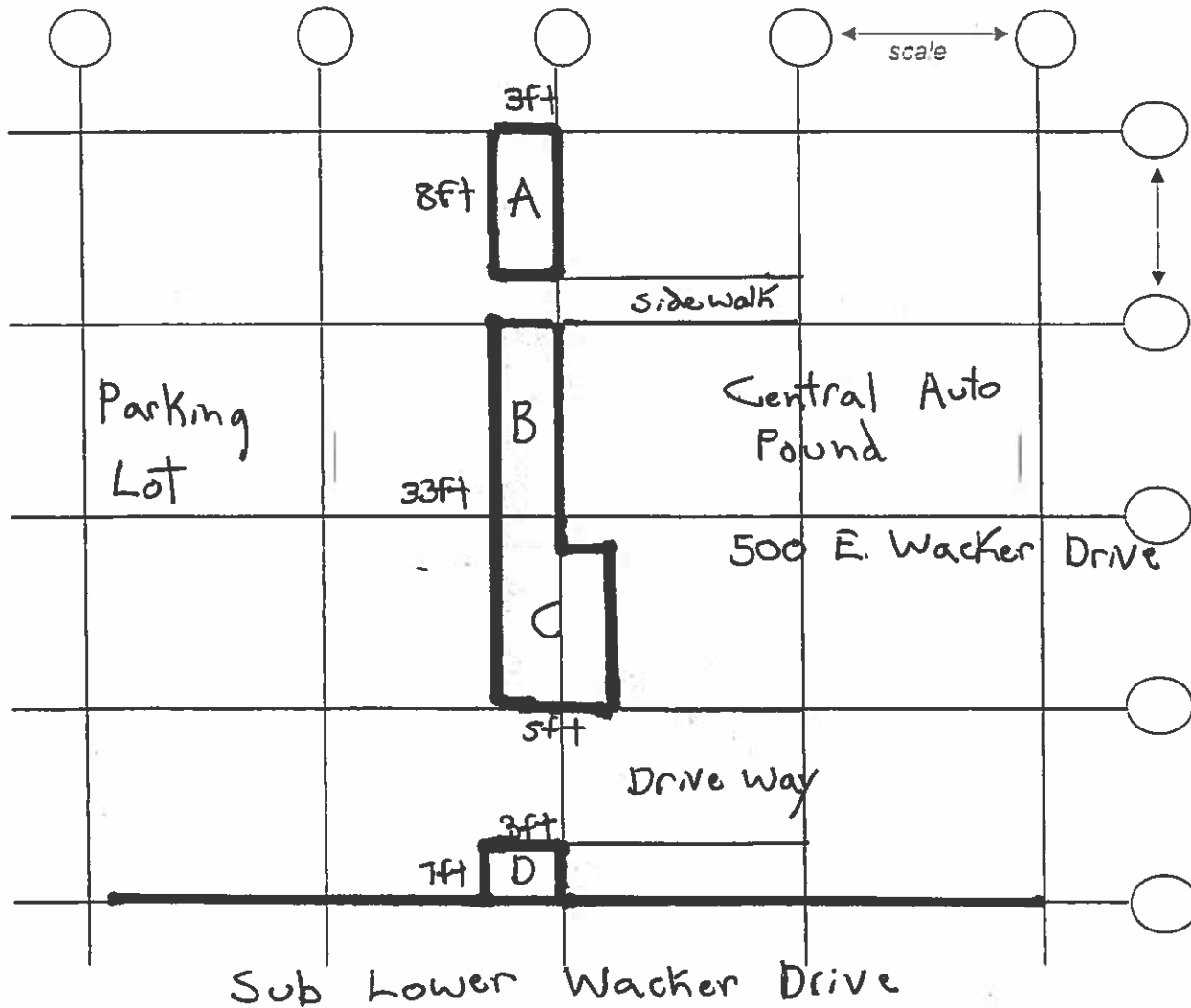
Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Lift Elevation: Surface to 2ft.

Background 1448 cpm

Action Level: 7572 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.



Thorium Survey for Fence Installation

Location: 500 E. Wacker Drive (Central Auto Pound)

By: Jeremy Kieser

Date: March 15 & 16, 2022

Background: 1448 CPM

Action Level: 7572 CPM

Area A	
Surface	1300 CPM
18 inch	1800 CPM
24 inch	2100 CPM

Area B	
Surface	1300 CPM
18 inch	1800 CPM
24 inch	2200 CPM

Area C	
Surface	1300 CPM
18 inch	1900 CPM
24 inch	1800 CPM

Area D	
Surface	1300 CPM
18 inch	1800 CPM
24 inch	2500 CPM