



March 12, 2024

989440

Matthew Ziegler  
AT&T  
4533 W. Roscoe St.  
Chicago, Illinois 60641

RE: Thorium Monitoring – AT&T 200-318 E. Erie St.  
CDOT Permit: 1906710

Dear Mr. Ziegler:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation for repair of an AT&T conduit at 200-318 E. Erie St. in Chicago, Illinois. The monitoring was performed by Mark Dewald on February 28, 2024.

#### Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126497) 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 6,043 counts per minute (cpm).

The average background count rate for this location was measured at 1,865 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 48 inches below ground surface. Material excavated below 36 inches was surveyed either in the excavator bucket as it was removed or as it was stockpiled at the surface.

The maximum gamma count rates for each lift were recorded on the attached Radiation Survey Forms. The count rates in the excavation ranged from 1,600 cpm to 2,700 cpm. No count rates were found at any time that exceeded the threshold limits of 6,043 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:** 200-216 E. Erie St. Conduit Repair - HEI

**Date:** 2/28/2024

**Technician:** Mark Dewald

**Inst Model:** Ludlum 2221

**Serial No. :** 126497

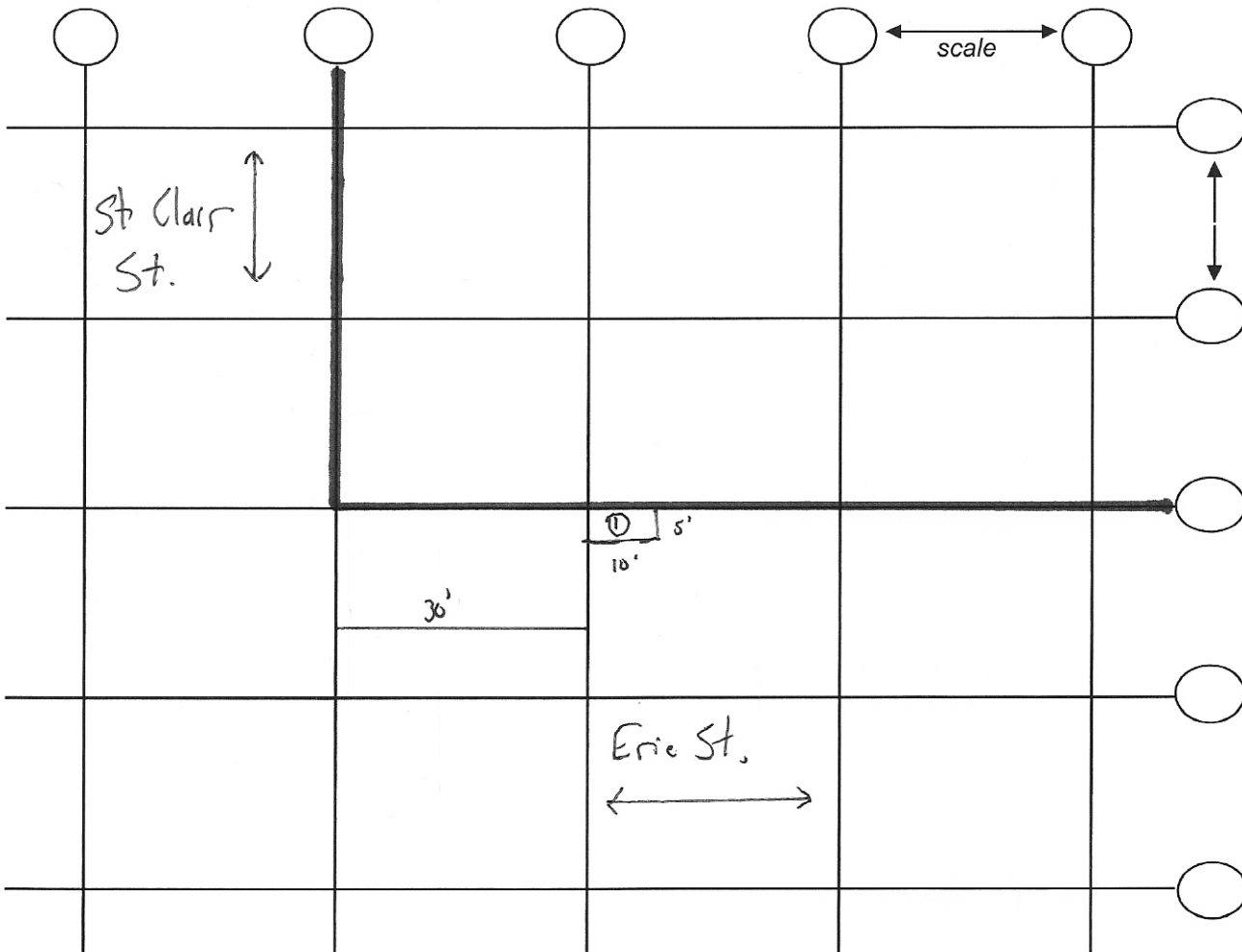
**Probe Type:** 1"x1" NaI / 2"x2" NaI  
Shielded / Not Shielded

**Lift Elevation:** Surface to -48" BGS

**Background** 1,865 cpm

**Action Level:** 6,043 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.

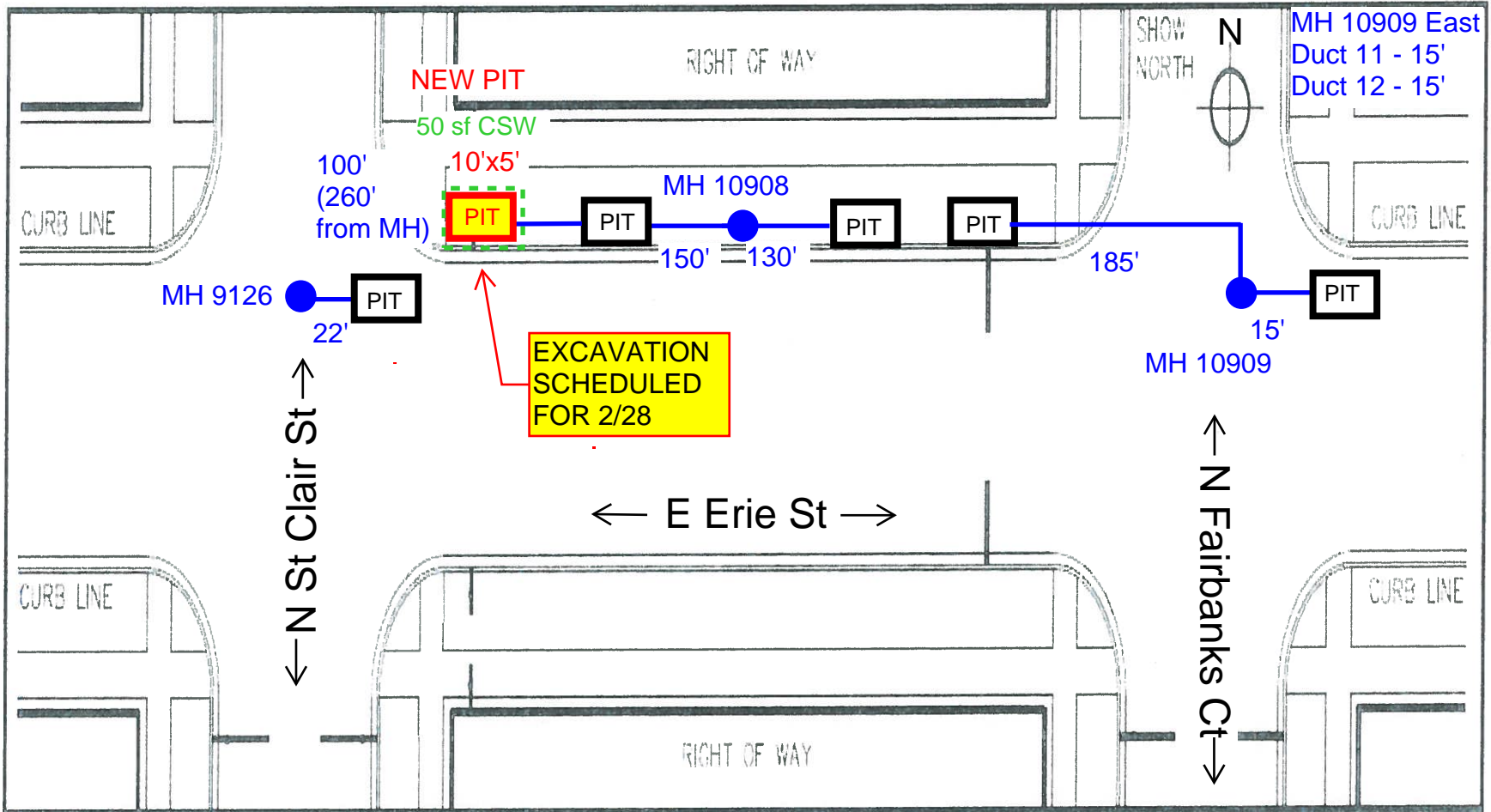


	0-12"	12-30"	30-48"	48-66"
<b>Area 1</b>	1600	2200	2100	2700

# SVA-23-025

Work Zone Sketch (Include Street Names, Roadway Layout, Roadway/Sidewalk Widths, and Work Zone Layout)

## UT# A02G5TD



ADDRESS RANGE: 200-216 E Erie St  
232-258 E Erie St  
300-304 E Erie St

\*Please Post NO PARKING in Address Range\*