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June 7, 2016

Greg Preisch Electric Conduit Construction 816 Hicks Drive Elburn, IL 60119

RE: 355-357 E. Erie St. Thorium Monitoring

Dear Mr. Preisch:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the replacement of an RCN manhole at 355-357 E. Erie St. in Chicago, Illinois. The monitoring was performed on June 4, 2016.

Instrumentation

Surface gamma scans were performed by Brian Schmidt using a Ludlum Model 2221 Scaled / Ratemeter (serial no. 126496) with attached 2"x2" Nal probe (6" lead shielded). The instrument was calibrated on October 15, 2015. The USEPA action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,054 counts per minute (cpm).

The average background count rate for this location was found to be 1,514 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Data was collected by monitoring the soil in each 18 inch lift as it was removed from the excavation and recording the highest count rate for the floor and walls to an excavation depth of approximately 6 feet. No soil was stockpiled during the project and all excavated materials were loaded directly into the truck after screening.

The maximum gamma count rates for each 18 inch lift are detailed on the attached Radiation Survey Form. The count rates in the excavation ranged from 2600 cpm to 4,500 cpm. No count rates were found at any time that exceeded the threshold limit of 7,054 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.

You will need to forward a copy of this report to the City of Chicago Department of Public Health (Attn: Rahmatunsia Begum) with the CDOT Permit Number in the subject line. I will be providing a copy of this report to USEPA, 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.

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Glenn Huber, CHP President

	Page of
Stan A. Nuber Counsultants, Inc. Radiati	ion Survey Form
Location/ Project ID: 355-357	E. ERIE STREET - RCN MANHOLE REPLACEMENT - ROW RAD
Date:6/4/16	E. ERIE STREET - RCN MANHOLE REPLACEMENT - ROW RAD SURVEY - CHICAGO, IL Technician: <u>BRIAN</u> Soumiot
nst Model: Lupium - 2221	Serial No. : 126496
Probe Type: 1"x1" Nal / 2"x2" Nal Shielded / Not Shielded	Lift Elevation: 0 - 70"
ackground <u>1514</u> _cpm	Action Level: 7054 cpm
Vrite grid designations in circles. Record highest co grid intersections (if required). Shade areas of ele	ounts for grid in cpm. Record 30 second counts evated counts and record max cpm.
φ φ	
ERIE ST	STREET CVLG
SIDEWALIA 24'	B-1 SIDEWALM
RIC BUILDING	
PROPERTY LINE	B-1 = BACHGROUND (IMW (OUNT) = 1514 GPM
1) DEPTY CPM	
() <u>VEPT4</u> <u>CPM</u> 0-18" <u>2600</u>	
18-36" 3100	
0-18" 2600 18-36" 3100 36-54" 3400	