

Stan A. Huber Consultants, Inc.

Health Physics and Radiation Safety Services

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June 15, 2021

Angel Camacho SET Environmental 450 Sumac Road Wheeling, Illinois 60090

RE: Thorium Monitoring – 407 E. River Dr. Tree Planting

City of Chicago Dept. of Assets, Information, and Services (AIS)

CDOT Permit: 1544503

Dear Mr. Camacho:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the excavation for a tree planter at the 407 E. River Drive. The monitoring was performed by Brian Schmidt, SAHCI Health Physics Technician, on June 8, 2021. All activities were conducted under the guidance of document *SET General Procedure for Thorium Monitoring*.

<u>Instrumentation</u>

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126496) with attached Ludlum Model 44-10 2"x2" Nal Detector (w/ 6" collimated lead shield). The instrument was calibrated on April 21, 2021. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,754 counts per minute (cpm).

The average background count rate for these locations was measured at 2,242 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 maximum 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 excavation ranged from 2,700 cpm to 4,000 cpm. No count rates were found at any time that exceeded the threshold limit of 6,754 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.

Glenn Huber, CHP President

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Stan A. Huber Consultants, Inc.	Radiatio	n Survey Fo	rm Par Parl	0,061cal Soil
Location/ Project ID:	70 -TREE PL	ANTER EXCAUGT	107 - Kan Kual	Survey
Radiation Location/ Project ID: 7D -Ther Pur Date: 6/8/2021		Technician:	Briga Signi	<u>7</u> T
Inst Model: Lunum - 2221				
Probe Type: 1"x1" Na	/ Not Shielded	Lift Elevation:	0-24"	
Background 2242	cpm	Action Level: 67	754 cpm	
Write grid designations in circ at grid intersections (if require	les. Record highest cou d). Shade areas of eleve	ents for grid in cpm. Reco ated counts and record ma	ord 30 second counts ax cpm.	† N
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	St. Cona	SIDEWALL	D [s'	—
Excarron ID	Death Con			—
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