

200 North Cedar Road - New Lenox, Illinois 60451-1751 - (800) 383-0468 or (815) 485-6161 - FAX (815) 485-4433 - Email sahci@sahci.com - Home Page www.sahci.com

September 25, 2020

961351

Mike Lanenga SET Environmental 450 Sumac Road Wheeling, Illinois 60090

RE: 2400-2800 S. Dr. Martin Luther King Jr. Drive Radiation Monitoring City of Chicago Department Transportation Former Carnotite Reduction Company Permit Hold Area CDOT Permit: 1273481

Dear Mr. Lanenga:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring for the City of Chicago Department of Transportation (CDOT) during excavation for replacement of 2 sidewalk sections at 2400-2800 S. Dr. Martin Luther King Jr. Drive in Chicago, Illinois. The potential radiological contaminants in the area surrounding the Former Carnotite Reduction Company site are uranium (U-234+U-235+U-238), thorium (Th-230), and radium (Ra-226). The monitoring was performed by Mark Dewald, SAHCI Health Physicist, on September 24, 2020.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126497) with attached Ludlum Model 44-10 2"x2" Nal detector (w/ 6" collimated lead shield). The instrument was calibrated on October 18, 2019. The Illinois Emergency Management Agency (IEMA) field action level which would trigger additional monitoring and sampling is twice the average background count rate.

The average background count rate for this location was measured as 1,333 counts per minute (cpm). The field action level was calculated as 2,666 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected surveying the sidewalk surface prior to removal and then again after the single 10-inch lift and recording the highest count rate for each section. No soil was excavated and only concrete was removed.

The maximum gamma count rate for each lift was recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 1,800 cpm to 2,400 cpm. No count rates were found at any time that exceeded the field action level of 2,666 cpm.

Additional Monitoring

Since no count rates were identified above the field action level, no additional soil sampling, air monitoring, or personnel monitoring were performed.

As required by IEMA, I will submit this report to Abby Mazza at the City of Chicago, Department of Assets, Information and Services (AIS).

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.

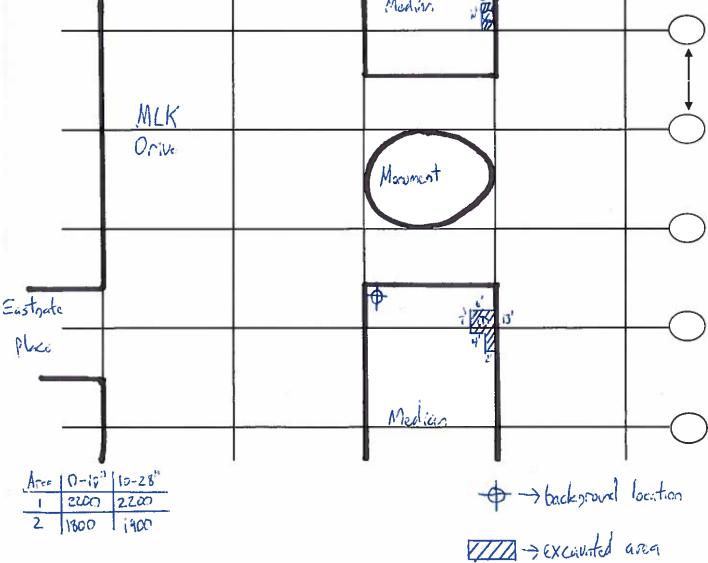
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Glenn Huber, CHP President

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Stan A. Huber Counsultants, Inc. Radiati	on Survey Form
Location/ Project ID:MLK - 7	24 -> 28 st
Date: 9/24/2020	Technician: Mark Dearth
Inst Model: Ludlun 2221	Serial No. : 126497
Probe Type: 1"x1" Nal 72"x2" Nal	Lift Elevation: O-10 ^N
Shielded Not Shielded Background 1333cpm	Action Level: <u>2666</u> _cpm
Write grid designations in circles. Record highest c at grid intersections (if required). Shade areas of ele	
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MLK	
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Stan A. Huber Counsultants, Inc.

Radiation Survey Form							
Location/ Project ID: _	MLK-24.	- 28st					
Date: 9/24/2020		Technician: _/	Mark Deurld				
Inst Model: Ludlum 2221		Serial No. : 126497					
Probe Type: 1"x1" Nal /2"x2" Mai Shielded / Not Shielded		Lift Elevation:					
Background 333	cpm	Action Level: 26	6cpm				
Write grid designations in circle at grid intersections (if required				↑ N			
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Area 0-19" 10-28" 3 1800 2400 -> excavated area