Stan A. Huber Consultants, Inc.
Health Physics and Radiation Safety Services

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

July 10, 2021

Angel Camacho
SET Environmental
450 Sumac Road
Wheeling, Illinois 60090

RE: 2722 S. Dr. Martin Luther King Jr. Drive Radiation Monitoring – City of Chicago Department of Water Management
Former Carnotite Reduction Company Permit Hold Area
CDOT Permit: N/A

Dear Mr. Camacho:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring for the City of Chicago Department of Water Management (DWM) during excavation for repair of catch basin at 2722 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 Glenn Huber, SAHCI Health Physicist, on July 7, 2021.

Surveys were performed in accordance with the City of Chicago Department of Assets, Information, and Services (AIS) Utility Emergency and Maintenance Plan, dated December 30, 2016.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 134542) with attached Ludlum Model 44-10 2”x2” NaI detector (w/ 6” collimated lead shield). The instrument was calibrated on May 5, 2021. 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 1,892 counts per minute (cpm). The field action level was calculated as 3,784 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 surrounding the catch basin after each 12-inch lift and recording the highest count rate

for the floors and walls to an excavation depth of 2 feet below ground surface. No soil was stockpiled during the project and all excavated material was loaded directly into the truck after screening.

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 2,200 cpm. No count rates were found at any time that exceeded the field action level of 3,784 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 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.

Glenn Huber, CHP
President

sahci
Stan A. Huber Consultants, Inc.

Radiation Survey Form

Location/ Project ID: 2722 S. MLK Jr. Drive - DWM Catch Basin Repair

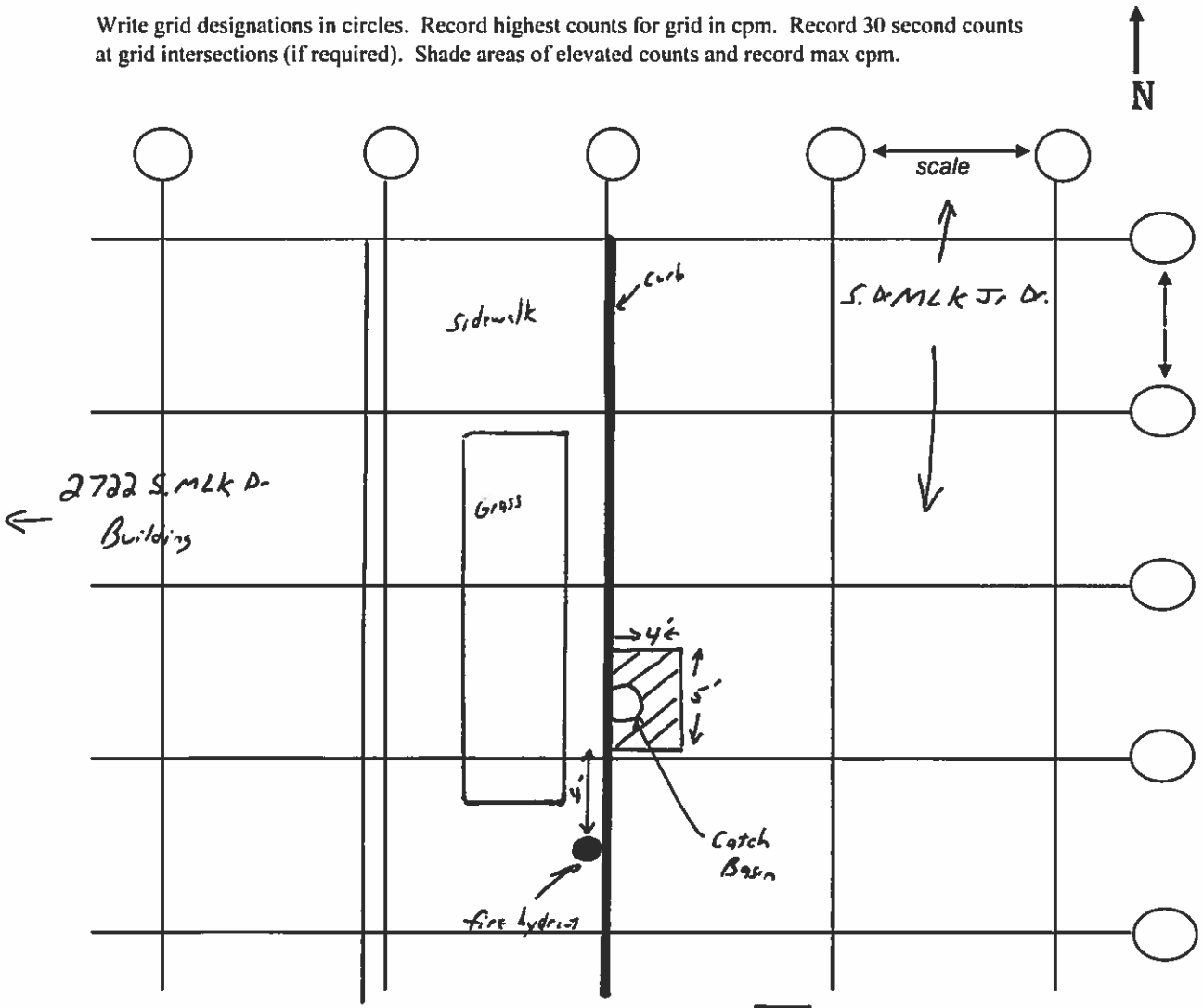
Date: 7/7/21 **Technician:** Glenn Huber

Inst Model: Ludlum 2221 **Serial No. :** 134542

Probe Type: 1"x1" NaI / (2"x2" NaI) (Shielded) / Not Shielded **Lift Elevation:** Surface to -2' BGS

Background 1,892 **cpm** **Action Level:** 3,784 **cpm** (2x Background)

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.



Depth	Counts
Surface	1800 cpm
-12"	1900 cpm
-24"	2200 cpm