

## 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

September 22, 2015

Dave Cozzi SET Environmental 450 Sumac Road Wheeling, Illinois 60090

RE: 435-485 E. Riverwalk – City of Chicago Public Art Piece Installation

Dear Mr. Cozzi:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the excavation and installation of a concrete sonotube at 435-485 E. Riverwalk in Chicago, Illinois. The monitoring was performed on September 14, 2015. All activities were conducted under the guidance of document *SET General Procedure for Thorium Monitoring*.

#### <u>Instrumentation</u>

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 17, 2014. The USEPA action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,037 counts per minute (cpm).

The average background count rate for this location was found to average 2,439 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 to an excavation depth of 4 feet.

The maximum gamma count rate for each lift was recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 2,600 cpm to 4,400 cpm. No count rates were found at any time that exceeded the threshold limit of 7,037 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.

Caye

Glenn Huber, CHP

President

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# Radiation Survey Form

**Location/ Project ID:** Technician: Brian Schmot Date: Inst Model: Lynum - 2221 Serial No.: 126 496 Lift Elevation: \_\_\_\_\_\_ Probe Type: 1"x1" Nal / 2"x2" Nal Shielded / Not Shielded Background \_ 2439 Action Level: 7037 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. scale SONNATURE COURTIEN CHICAGO B-1 (BACHGROUND | MIN) COUNT)
= 2439 ELCAVATION = 2' DIAMETER TO 4' bgs

2600

4400