

June 30, 2016

Rick McCarthy
James McHugh Construction Co.
1737 S. Michigan Avenue
Chicago, IL 60616

RE: Lakeshore East – Wanda Vista Field Drive Geotechnical Boring Thorium Monitoring

Dear Mr. McCarthy:

Stan A. Huber Consultants, Inc. (SAHCI) was hired by your firm to provide radiation monitoring during geotechnical borings at the Lakeshore East Development (Wanda Vista Field Drive Project) in Chicago, Illinois. The monitoring was performed on May 31, 2016.

Instrumentation

Surface gamma scans were performed by Brian Schmidt using a Ludlum Model 2221 Scaled / Ratemeter (serial no. 126496) with attached 2"x2" NaI probe (unshielded). 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 19,920 counts per minute (cpm).

The average background count rate for this location was determined to be 6,762 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Data was collected by monitoring the spoils generated during rock core drilling (Boring 131B) and recording the highest count rate for each 5 foot interval.

The maximum gamma count rate for each 5 foot drilling interval was recorded on the attached Radiation Survey Form. The count rates of the spoils ranged from 3,100 cpm to 3,600 cpm. No count rates were found at any time that exceeded the threshold limit of 19,920 cpm.

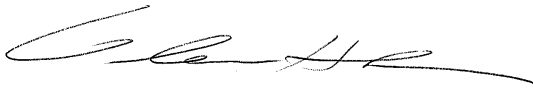
Additional Monitoring

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. Additionally, all thorium monitoring data should be retained for review by USEPA.

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.

A handwritten signature in black ink, appearing to read 'Glenn Huber', with a long horizontal flourish extending to the right.

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: WANDA DEVELOPMENT - ROCK CORE DRILLING SPILL SURVEY - CHICAGO, IL

Date: 5/31/16 Technician: BRIAN SCHAFFERT

Inst Model: LUDLUM - 2221 Serial No. : 126496

Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Background 6762 cpm Action Level: 19,920 cpm

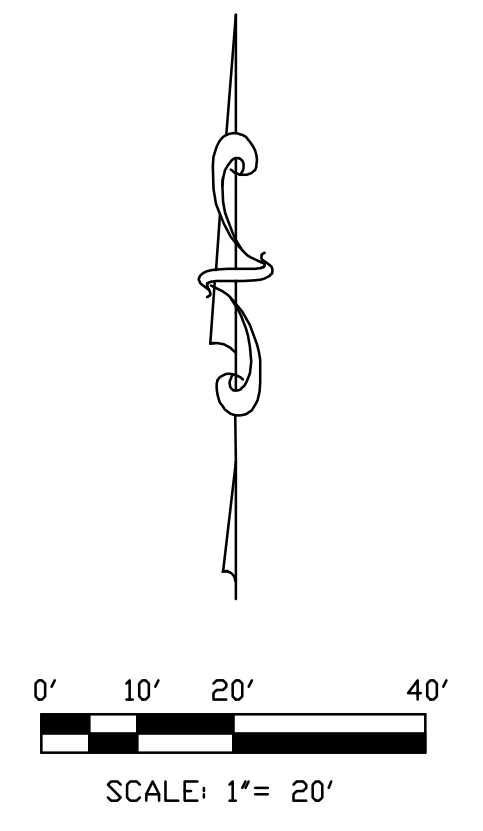
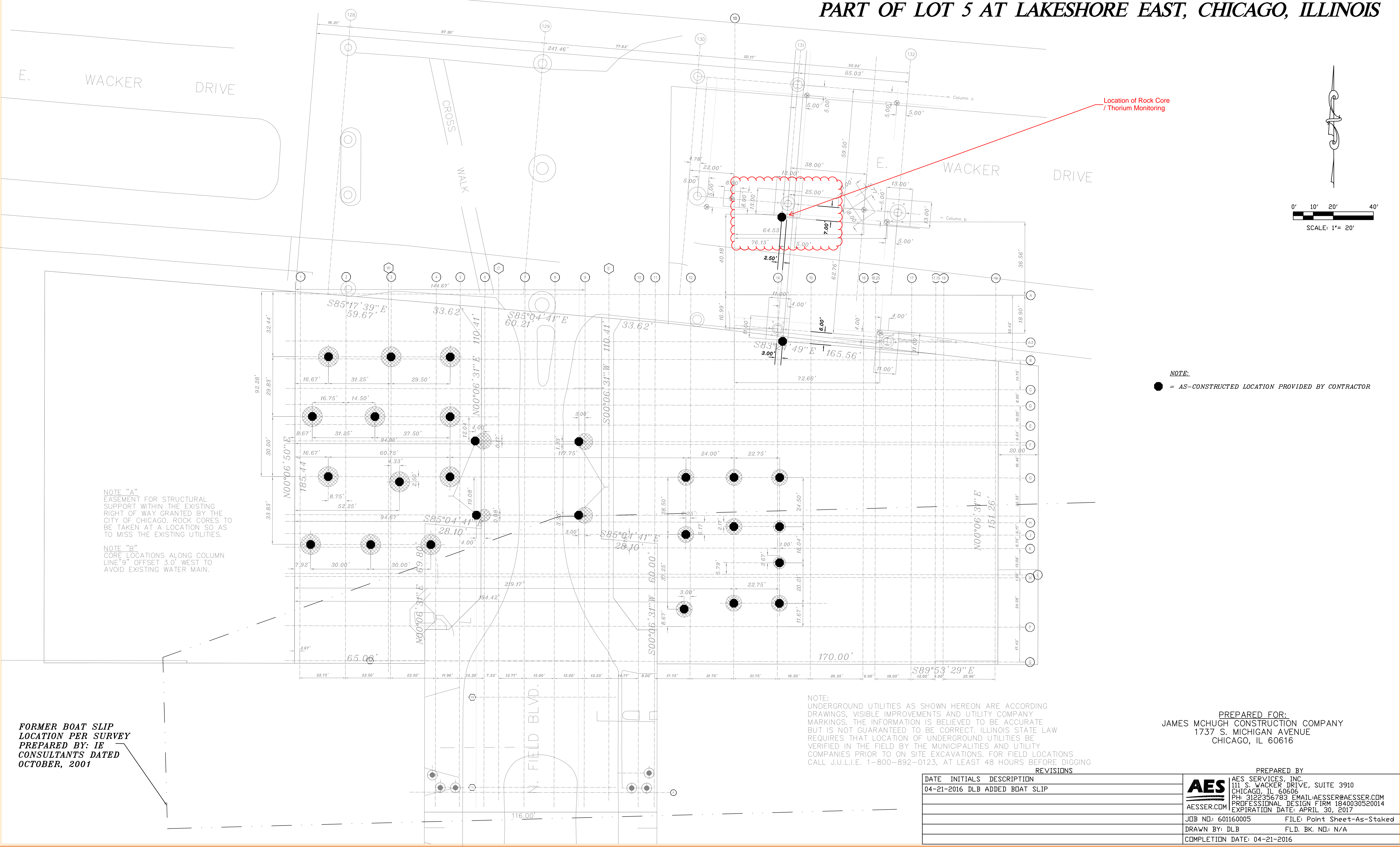
Write grid designations in circles. Record highest counts for grid in cpm. Record 30 second counts at grid intersections (if required). Shade areas of elevated counts and record max cpm.



BORING ID	DEPTH	CPM	
131 B	0-5 5-10	3100 3600	<div style="display: flex; justify-content: center; align-items: center;"> <div style="margin-right: 10px;">←</div> <div style="text-align: center;">scale</div> <div style="margin-left: 10px;">→</div> </div>
			<div style="display: flex; justify-content: center; align-items: center;"> <div style="margin-right: 10px;">↑</div> <div style="text-align: center;">N</div> <div style="margin-left: 10px;">↓</div> </div>
			<div style="display: flex; justify-content: center; align-items: center;"> <div style="margin-right: 10px;">↑</div> <div style="text-align: center;">N</div> <div style="margin-left: 10px;">↓</div> </div>
			<div style="display: flex; justify-content: center; align-items: center;"> <div style="margin-right: 10px;">↑</div> <div style="text-align: center;">N</div> <div style="margin-left: 10px;">↓</div> </div>
			<div style="display: flex; justify-content: center; align-items: center;"> <div style="margin-right: 10px;">↑</div> <div style="text-align: center;">N</div> <div style="margin-left: 10px;">↓</div> </div>
			<div style="display: flex; justify-content: center; align-items: center;"> <div style="margin-right: 10px;">↑</div> <div style="text-align: center;">N</div> <div style="margin-left: 10px;">↓</div> </div>

ADDRESS OF PROPERTY
 363 E. WACKER DRIVE
 401 E. WACKER DRIVE
 PIN=17-10-318-080

AS-CONSTRUCTED EXHIBIT OF LOWER STREET LEVEL PART OF LOT 5 AT LAKESHORE EAST, CHICAGO, ILLINOIS



NOTE "A"
 EASEMENT FOR STRUCTURAL
 SUPPORT WITHIN THE EXISTING
 RIGHT OF WAY GRANTED BY THE
 CITY OF CHICAGO. ROCK CORES TO
 BE TAKEN AT A LOCATION SO AS
 TO MISS THE EXISTING UTILITIES.

NOTE "B"
 CORE LOCATIONS ALONG COLUMN
 LINE "9" OFFSET 3.0' WEST TO
 AVOID EXISTING WATER MAIN.

NOTE:

● = AS-CONSTRUCTED LOCATION PROVIDED BY CONTRACTOR

NOTE:
 UNDERGROUND UTILITIES AS SHOWN HEREON ARE ACCORDING
 DRAWINGS, VISIBLE IMPROVEMENTS AND UTILITY COMPANY
 MARKINGS. THE INFORMATION IS BELIEVED TO BE ACCURATE
 BUT IS NOT GUARANTEED TO BE CORRECT. ILLINOIS STATE LAW
 REQUIRES THAT LOCATION OF UNDERGROUND UTILITIES BE
 VERIFIED IN THE FIELD BY THE MUNICIPALITIES AND UTILITY
 COMPANIES PRIOR TO ON SITE EXCAVATIONS. FOR UTILITY LOCATIONS
 CALL J.U.L.I.E. 1-800-892-0123, AT LEAST 48 HOURS BEFORE DIGGING

FORMER BOAT SLIP
 LOCATION PER SURVEY
 PREPARED BY: IE
 CONSULTANTS DATED
 OCTOBER, 2001

PREPARED FOR:
 JAMES MCHUGH CONSTRUCTION COMPANY
 1737 S. MICHIGAN AVENUE
 CHICAGO, IL 60616

REVISIONS			PREPARED BY	
DATE	INITIALS	DESCRIPTION		
04-21-2016	DLB	ADDED BOAT SLIP	AES SERVICES, INC. 111 S. WACKER DRIVE, SUITE 3910 CHICAGO, IL 60606 PH: 312.235.783 EMAIL: AESER@AESER.COM PROFESSIONAL DESIGN FIRM 1840030520014 EXPIRATION DATE: APRIL 30, 2017	
			JOB NO: 601160005	FILE: Point Sheet-As-Staked
			DRAWN BY: DLB	FLD. BK. NO: N/A
			COMPLETION DATE: 04-21-2016	