AECOM
303 E. Wacker Drive, Suite 1400
Chicago, Illinois 60606

312-939-1000 tel
312-939-4198 fax

June 1, 2022

Mr. Kyle Carlson
Peoples Gas Light & Coke Co.
Environmental Services Department
200 E. Randolph Street, 24th Floor
Chicago, IL 60601

RE: Streeterville Thorium Monitoring Results – Corrosion Protection
Permit Nos.: DOT1641776, DOT1647688, DOT 1647742, DOT 1647739, and DOT1663198
Permit Addresses: 325-343 North Lower Michigan Avenue, 550 North St. Clair St., 74-78 East Lower Wacker Place, 117 East Lower Wacker Drive, and 100 East Erie St.

Dear Mr. Carlson:

Pursuant to conditions specified in the Right of Way (ROW) forms (attached) issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring was required to be performed at the above referenced sites. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on May 17 and 25, 2022, for 18-inch diameter excavations at each of the referenced addresses to install corrosion protection anodes (refer to maps included with CDPH forms). Each excavation was 18-inches in diameter to a depth of 3-6 feet below ground surface (bgs). A hydro-vac truck was used to remove the fill soils at each of the locations described below.

The monitoring did not indicate that the fill soils were above the removal action level established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA removal action level for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). Gamma radiation count measurements for the project were recorded using a Ludlum Model 2221 survey meter and a shielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used the gamma count threshold indicative of the 7.1 pCi/g removal action level is 7,197 (S/N: 326720) counts per minute (cpm) shielded.

325-343 North Lower Michigan Avenue

This excavation was located approximately 15 feet east of the center of N. Michigan Ave. and 18 feet south of the center of the alley to the west. Field gamma measurements within this opening did not exceed the instrument threshold previously stated and ranged from 1,550 cpm to a maximum reading of 3,600 cpm. No exposed soil was present at this site, so the background gamma count was determined by measuring nearby concrete surfaces. The background gamma count was approximately 1,000 cpm. Based on field observations, there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

550 North St. Clair St.

This excavation was located approximately 117 feet south of the southeast corner of N. St. Clair and E. Ohio St. and 9 feet west of the eastern curb. Field gamma measurements within this opening did not exceed the instrument threshold previously stated and ranged from 1,409 cpm to a maximum reading of 2,796 cpm. The background gamma count was 2,272 cpm, measured in a tree area to the north of the hole by 25 feet. Based on field observations, there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

74-78 East Lower Wacker Place

Two excavations were made located on the north east corner of Garland Ct and East Lower Wacker Pl. No gamma measurements recorded in these excavations exceeded the instrument threshold previously stated. Gamma measurements at Excavation 1 ranged from 1,294 cpm to a maximum reading of 1,786 cpm. Excavation 2 was located 3 feet west of the north sidewalk and 44 feet east of the north east corner of Garland Ct and E. Wacker Place. The maximum gamma measurement at Excavation 2 was 1,811 cpm. No exposed soil was present at this site, so the background gamma count was determined by measuring nearby concrete surfaces. The background gamma count was 1,000 cpm. Based on field observations, there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

117 East Lower Wacker Drive

This excavation was located approximately 5 feet east the curb bordering Lower Wacker Drive. Field gamma measurements within this opening did not exceed the instrument threshold previously stated and ranged from 1,293 cpm to a maximum reading of 2,656 cpm. The background reading was taken 30 feet south of the site where the gamma count was 2,420 cpm. Based on field observations, there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

100 East Erie St.

This excavation was located 12 feet south of the northern curb on East Erie St. Field gamma measurements within this opening did not exceed the instrument threshold previously stated and ranged from 2,207 cpm to a maximum reading of 3,013 cpm. The background reading was taken 12 feet north of the site where the gamma count was 2,390 cpm. Based on field observations, there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

A PDF copy of this letter will be forwarded via email to the CDPH and Verneta Simon (USEPA) to fulfill the requirements of the CDPH. Copies of the CDPH forms, photographs, and the tabulated gamma results are included as attachments to this report.

Please contact us with any questions you have regarding this letter or the reported results.

Regards,

Eric Sulita, P.E.
Environmental Engineer III

Steven C. Kornder, Ph.D.
Senior Project Geochemist

cc: Ahmad Nur, Chicago Department of Public Health
Verneta Simon, USEPA

Attachments: CDPH Permit Forms and Maps
Photographs and Tabulated Gamma Results

CDPH PERMIT FORMS

DEPARTMENT OF PUBLIC HEALTH

CITY OF CHICAGO

FORM NO. CDPH.ROW.03 (STREETERVILLE Right-of-Way)

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Public Health (CDPH) as potentially having environmental contamination on the site and adjacent right-of way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at CDPH at 333 S. State St., Room 200, Chicago, Illinois 60604 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 745-3152 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued if the ground is exposed or excavated. **Please note that for some locations, additional health and safety procedures may be required by law.**

Please complete the following:

I have reviewed and understand the documents, maintained by CDPH, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the CDPH and the United States Environmental Protection Agency **within two (2) weeks of their completion**. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Applicant Name (print): Tom Kannon Signature: Tom Kannon

Site Address and Work Location (Describe exact site location and **attach map**):

325 N MICHIGAN AVE. Core Anode Qty (2) in hole at 129SS Lower Wacker 50WE Lower Michigan. Qty (1) 1x1 Keyhole Opening.

(325-343 N MICHIGAN AVE)

Nature of Work: Corrosion Repairs / Maintenance

Company Name, Address, Phone No.: Peoples & North Shore Gas. 200 E Randolph. 312-240-7035

General / Prime Contractor Name, Address, Phone No.: MEADE. 625 Willowbrook Center Pkwy. Willowbrook, IL 60527. 708-588-6265

Include subcontractor information if applicable)

Safety Officer / Phone No. David Krefft / 708-683-0785

Radiation Contractor / Phone No. (if applicable) AECOM. 303 E. Wacker Drive, Suite 1400. Chicago, IL 60601. 262-515-7700. Steve Kornder, Ph.D.

Check if City Department Work ☐ Department Name:

CDOT Permit No.: DOT1641776

Today's Date: 2-2-22 Expected Start Date: 4-1-22 CDPH Approval / Date ahmad nur 02/07/2022

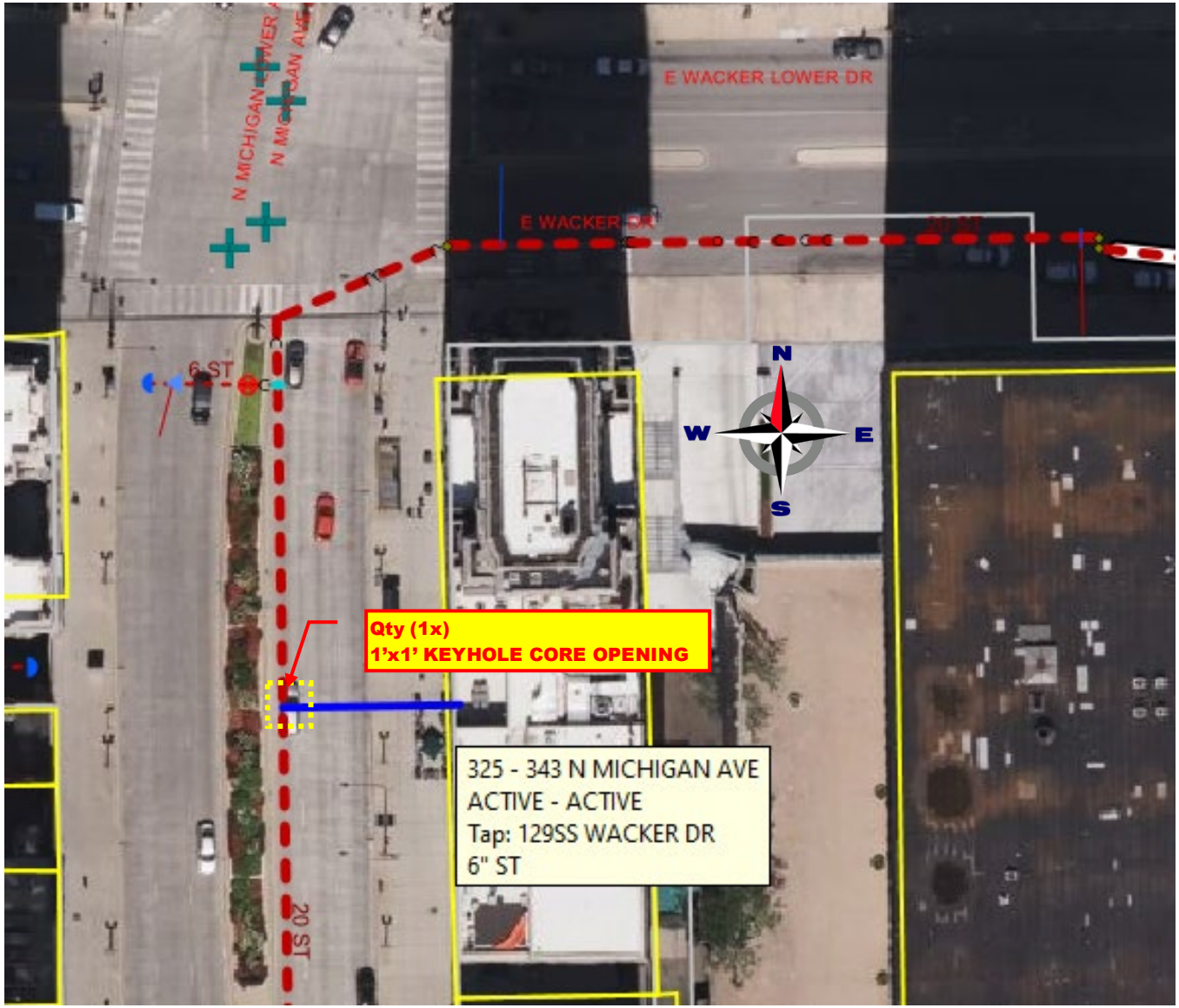
Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall – Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only

325 N MICHIGAN AVE MX4168135, WORKZONE SKETCH:

Install Test Leads and Qty (2) #32 Anodes on Service in Street in Core hole at 129ss Lower Wacker 50WE Lower Michigan.

Qty (1) 1x1 Keyhole Core in Street.



DEPARTMENT OF PUBLIC HEALTH

CITY OF CHICAGO

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Applicant Name (print): Maria G Oliver Signature: Maria G Oliver

Site Address and Work Location (Describe exact site location and **attach map**):

550-51 N St Clair St

Nature of Work: Corrosion Repair - 1x1x1 Keyhole core Street opening

Company Name, Address, Phone No.: Peoples Gas, 200 E Randolph, (312) 240-4692

General / Prime Contractor Name, Address, Phone No.: Tom Kannon (630) 430-3239
Include subcontractor information if applicable)
Safety Officer / Phone No. Joseph McHugh (312) 285-7315

Radiation Contractor / Phone No. (if applicable) Steve Kornder AECOM 262-515-7700

Check if City Department Work ☐ Department Name:

CDOT Permit No.: DOT1647688

Today's Date: 4/19/2022 Expected Start Date: 4/21/2022 CDPH Approval / Date ahmad nur 04/19/2022

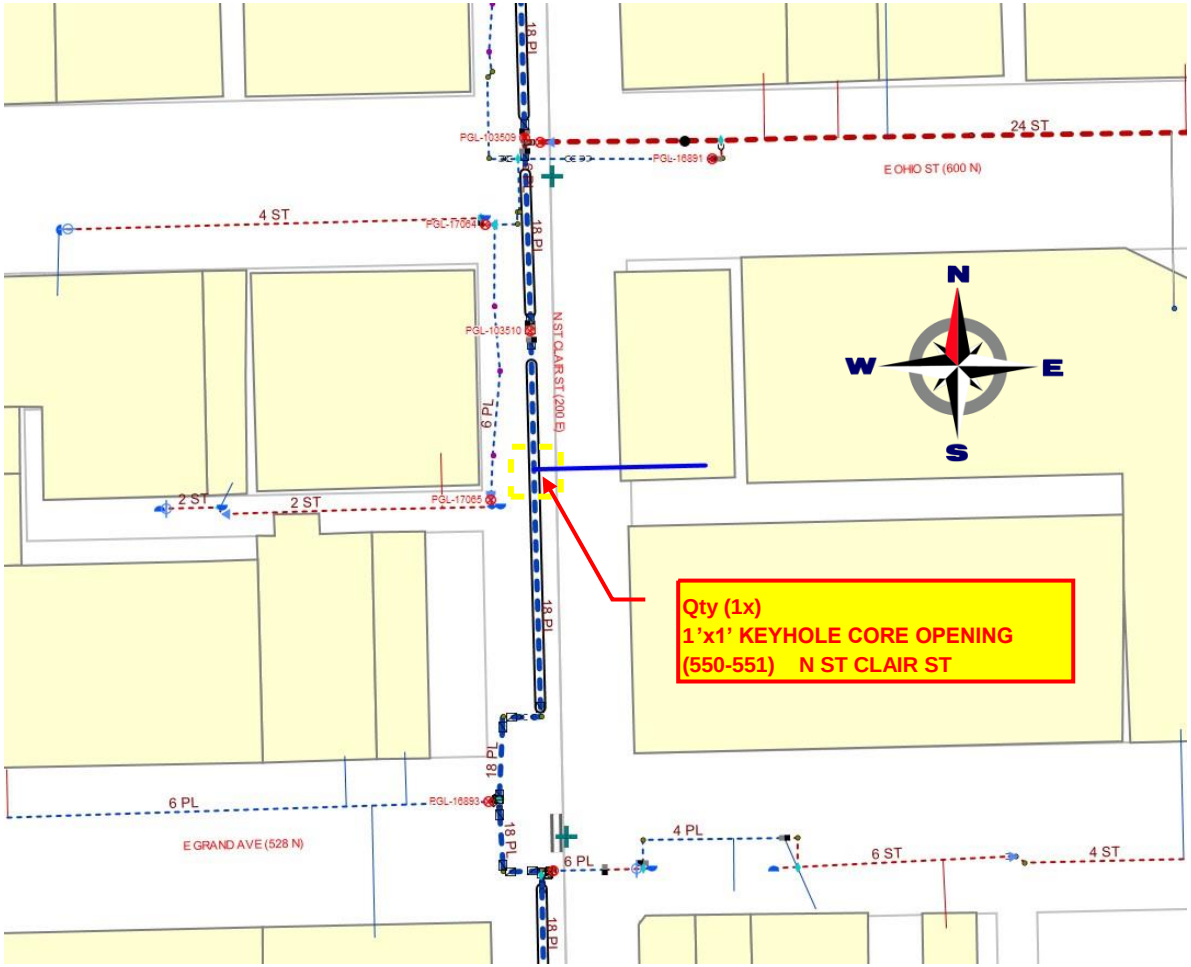
Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall – Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only

PERMIT # DOT1647688

Street Opening Address: (550-551) N ST CLAIR ST

Qty (1) 1x1 Keyhole Core in Street.



DEPARTMENT OF PUBLIC HEALTH

CITY OF CHICAGO

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Applicant Name (print): Maria G. Oliver Signature: Maria G Oliver

Site Address and Work Location (Describe exact site location and **attach map**):

74-78 E Lower Wacker Dr

Nature of Work: Corrosion Repair 1x1x1 Keyhole Core Street opening

Company Name, Address, Phone No.: Peoples Gas, 200 E Randolph St (312) 240-4692

General / Prime Contractor Name, Address, Phone No.: Tom Kannon (630) 430-3239
Include subcontractor information if applicable)
Safety Officer / Phone No. Joseph McHugh (312) 285-7315

Radiation Contractor / Phone No. (if applicable) Steve Kornder AECOM 262-515-7700

Check if City Department Work ☐ Department Name:

CDOT Permit No.: DOT1647742

Today's Date: 4/19/2022 Expected Start Date: 4/21/2022 CDPH Approval / Date ahmad nur 04/19/2022

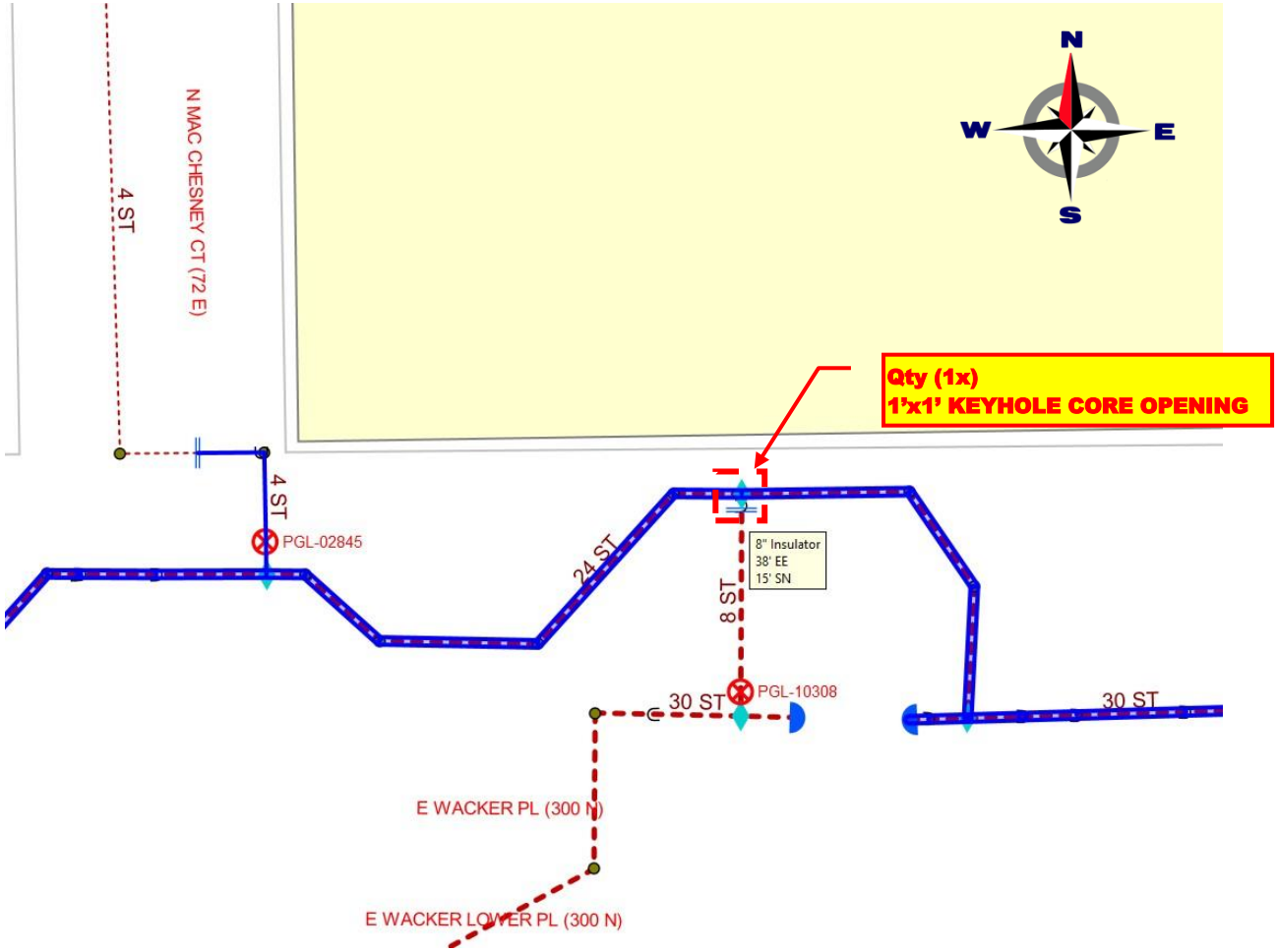
Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall – Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only

74-78 E Lower Wacker Dr, WORKZONE SKETCH:

Permit #DOT1647742

Qty (1) 1x1 Keyhole Core in Street.



DEPARTMENT OF PUBLIC HEALTH

CITY OF CHICAGO

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Applicant Name (print): Tom Kannon Signature: Tom Kannon

Site Address and Work Location (Describe exact site location and **attach map**):

117 E WACKER DR. Install Core, Qty (2) 32# Anodes on Service in Street. Qty (1) 1x1 Keyhole Core in Street.

Nature of Work: Corrosion Repairs / Maintenance

Company Name, Address, Phone No.: MEADE. 625 Willowbrook Center Pkwy. Willowbrook, IL 60527. 708-588-6265

General / Prime Contractor Name, Address, Phone No.: MEADE. 625 Willowbrook Center Pkwy. Willowbrook, IL 60527. 708-588-6265
Include subcontractor information if applicable)
Safety Officer / Phone No. David Krefft / 708-683-0785

Radiation Contractor / Phone No. (if applicable) AECOM. 303 E. Wacker Drive, Suite 1400. Chicago, IL 60601. 262-515-7700. Steve Kornder, Ph.D.

Check if City Department Work ☐ Department Name:

CDOT Permit No.: #DOT1647739

Today's Date: 3-24-22 Expected Start Date: 4-4-22 CDPH Approval / Date ahmad nur 03/25/2022

Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall – Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

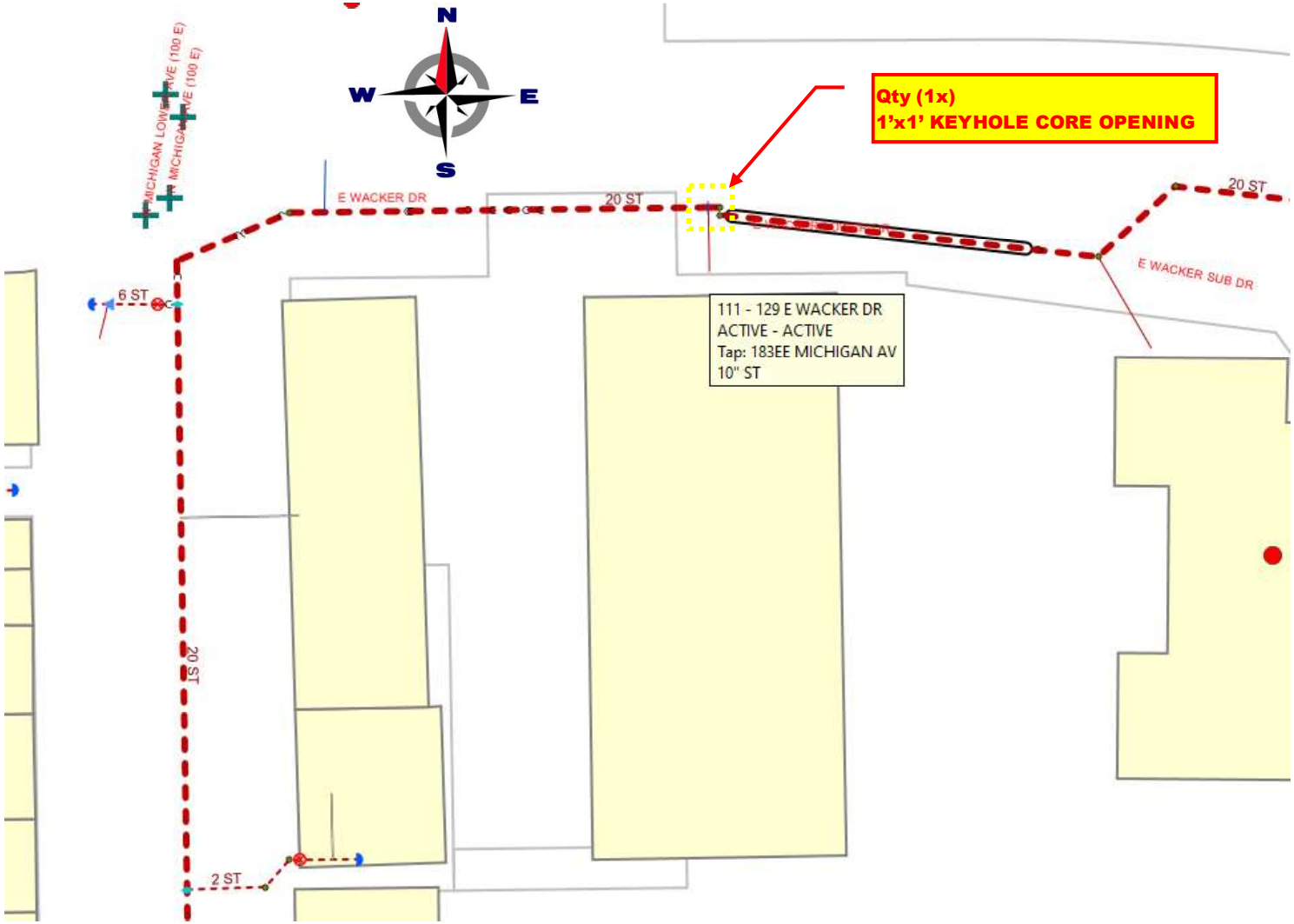
For CDPH Use Only

117 E WACKER DR MX4168129, WORKZONE SKETCH:

Permit #DOT1647739 for 117 E WACKER DR.

Install TLA Test Leads and Qty (2) #32 Anodes on Service in Street.

Qty (1) 1x1 Keyhole Core in Street.



DEPARTMENT OF PUBLIC HEALTH

CITY OF CHICAGO

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Applicant Name (print): Tom Kannon Signature: Tom Kannon

Site Address and Work Location (Describe exact site location and **attach map**):

100 E ERIE ST. Install TLA Test Leads and #32 Anodes in Service in Street. Qty (1) 1x1 Keyhole Core in Street.

Nature of Work: Corrosion Repairs / Maintenance

Company Name, Address, Phone No.: Peoples & North Shore Gas. 200 E Randolph. 312-240-7035

General / Prime Contractor Name, Address, Phone No.: MEADE. 625 Willowbrook Center Pkwy. Willowbrook, IL 60527. 708-588-6265
Include subcontractor information if applicable)
Safety Officer / Phone No. David Krefft / 708-683-0785

Radiation Contractor / Phone No. (if applicable) AECOM. 303 E. Wacker Drive, Suite 1400. Chicago, IL 60601. 262-515-7700. Steve Kornder, Ph.D.

Check if City Department Work ☐ Department Name:

CDOT Permit No.: DOT1663198

Today's Date: 4-7-22 Expected Start Date: 4-11-22 CDPH Approval / Date ahmad nur 04/07/2022

Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall – Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

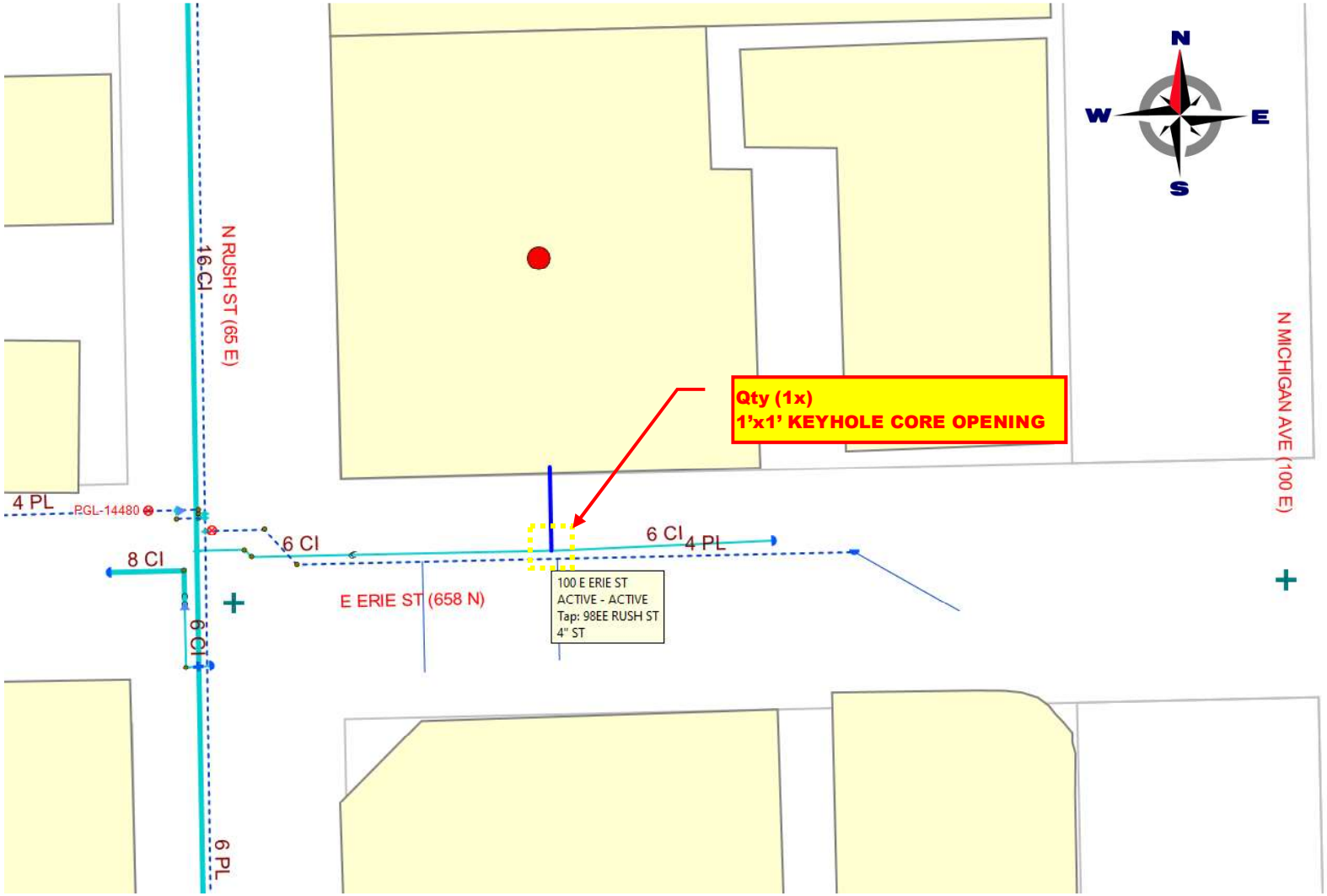
For CDPH Use Only

100 E ERIE ST MX4174825, WORKZONE SKETCH:

Permit #DOT1663198 for 100 E ERIE ST.

Install TLA Test Leads and Qty (1) #32 Anode on Service in Street.

Qty (1) 1x1 Keyhole Core in Street.



PHOTOGRAPHS AND TABULATED GAMMA RESULTS

Gamma Survey Results
People's Gas

Survey Equipment

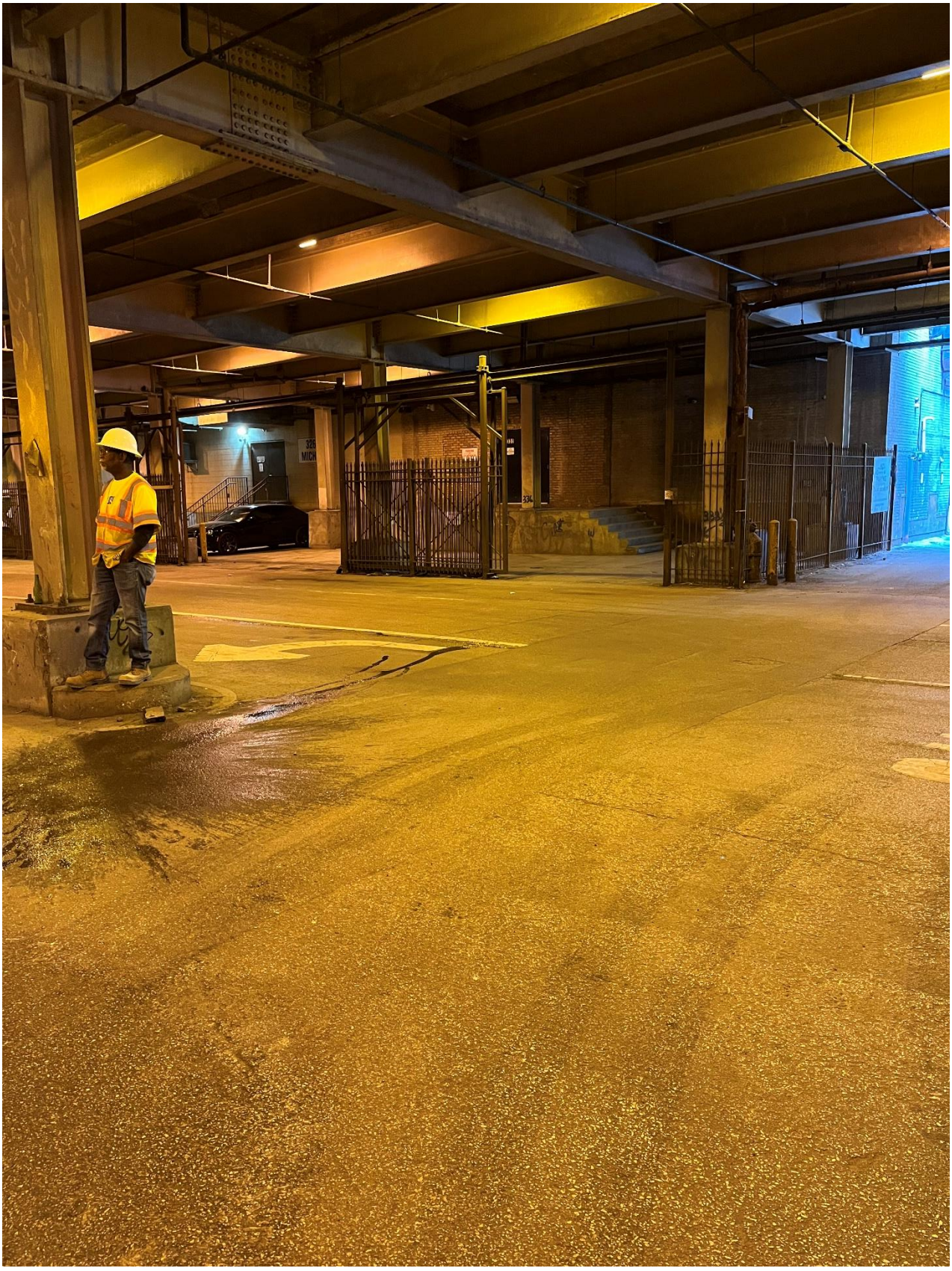
CDOT Nos:	DOT1641776, DOT1647688, DOT1647742, DOT1647739, and DOT1663198
Ludlum 2221 S/N:	326720
Ludlum Probe S/N	PR360158
Cutoff (cpm)	7197
Background (cpm)	1000-2420
Personnel:	L. Verkoulen and A. Witter
Date of Screening:	5/17/2022 and 5/25/2022

Survey Results

Location	Excavation	Depth (inches)	Maximum Readings (cpm)
325-343 North Lower Michigan Avenue	1	12	1607
		24	2068
		36	3200
		49	3600
		58	3015
		70	2632
550 North St. Clair	1	12	1440
		16	1531
		29	1738
		36	2140
		47	2462
		58	2796
74-78 East Lower Wacker Place	1	12	1450
		30	1786
	2	12	1320
		50	1811
117 East Lower Wacker Drive	1	0	1293
		12	2018
		24	1798
		36	2437
		48	2507
		60	2656
		72	1840
		84	1355
100 East Erie St.	1	0	2416
		12	3013
		24	2207
		36	2302
		48	2516
		60	2552

PICTURE 1: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 325 N MICHIGAN AVE LOOKING SOUTH

PICTURE 2: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 325 N MICHIGAN AVE LOOKING SOUTHWEST

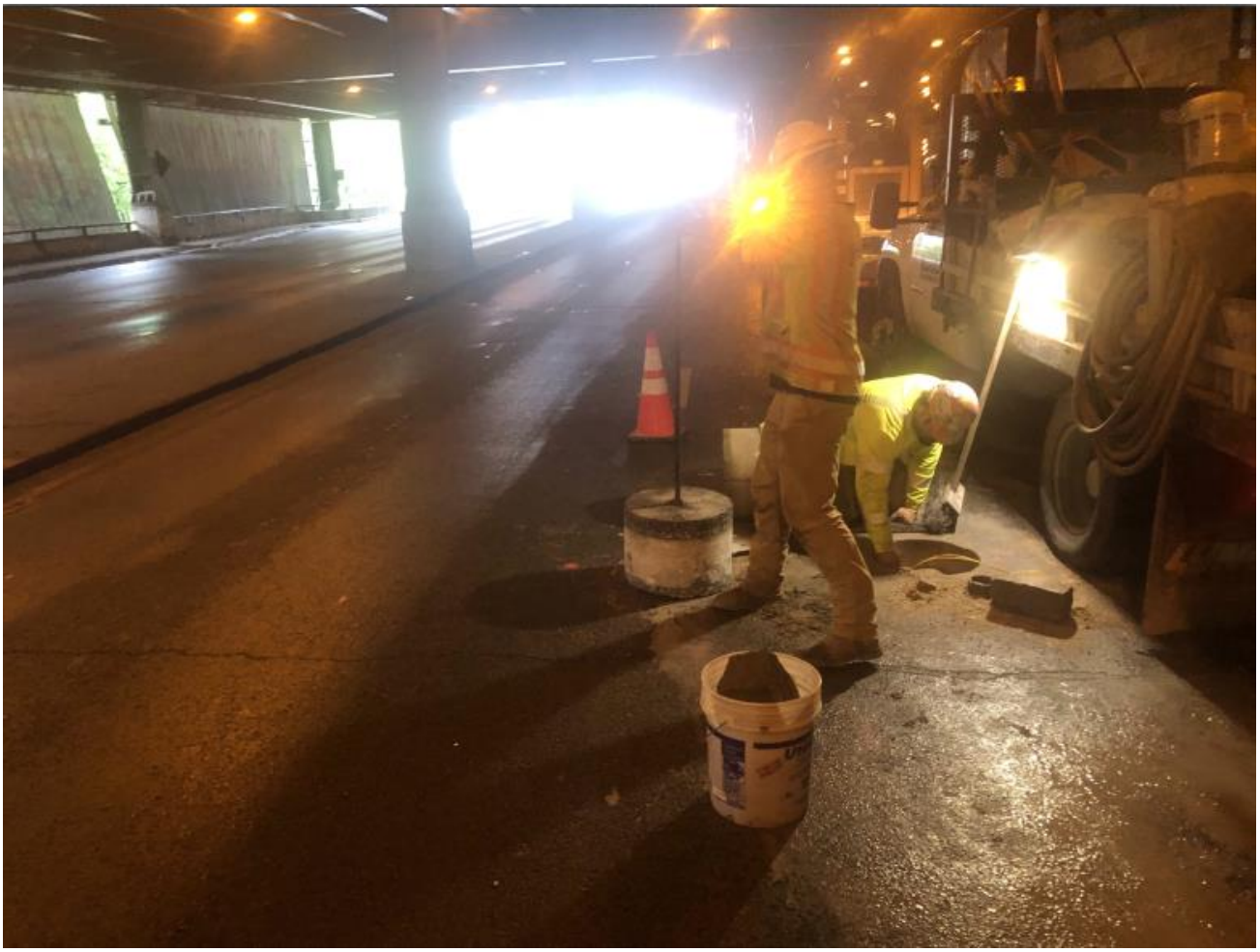


PICTURE 3: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 550 N ST CLAIR LOOKING SOUTH

PICTURE 4: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 74-78 E LOWER WACKER PLACE LOOKING EAST

PICTURE 5: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 74-78 E LOWER WACKER PLACE LOOKING NORTH EAST

PICTURE 6: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 117 EAST LOWER WACKER DRIVE



PICTURE 7: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 100 EAST ERIE ST