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of New York, Inc.
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January 24, 2025

VIA ELECTRONIC MAIL

Ms. Sydney Sobol
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-1011

E-mail: Sydney.Sobol@dec.ny.gov

Re: Interim Corrective Measures – Progress Report No. 97
Consolidated Edison, Astoria, NY
Former Pond Area, Purge Oil Pump House Area, and LNG Facility

Dear Ms. Sobol:

This memorandum summarizes the Interim Corrective Measure (ICM) activities conducted at Con Edison's Astoria Complex during the fourth quarter of 2024 from October 1 through December 31, 2024 (the Reporting Period) to monitor and recover light non-aqueous phase liquid (LNAPL). The quarterly vacuum-enhanced fluid recovery (VEFR) for Q4 2024 was completed on October 16, 2024. This progress update presents the following information:

1. Activities Completed During This Reporting Period
2. Deviations from the Work Plan
3. Recommendations

1. Activities Completed During This Reporting Period

Monthly ICM field inspections were completed on October 16, November 11, and December 12, 2024. Wells were gauged for the presence of LNAPL using a Heron™ oil/water interface probe as part of the monthly field inspection program. Ten wells (K46, K55, K56, K101, K103, K108, A17, A22B, F38, K87) were gauged during all events during the reporting period.

During gauging in this reporting period, LNAPL was detected (including sheens) in five monitoring wells: A22B, K46, K55, K87, and F38. A maximum measurable LNAPL thickness of 1.46 ft was detected in monitoring well K46 during the December 12, 2024 monitoring event.

SoakEase™ absorbent socks were maintained in each ICM well during the reporting period for continuous passive LNAPL recovery. During the October 16 and November 11 gauging events, the absorbent socks were removed, the LNAPL thickness in each well was measured, and new absorbent socks were installed as needed in each well. During the December 12 gauging event the absorbent socks were removed and not replaced in order to allow LNAPL to recover to equilibrium in the wells over the first quarter of 2025. The absorbent socks were disposed of properly as discussed in previous progress updates. Manual bailing was not performed during this reporting period.

The quarterly VEFR event for Q4 2024 was conducted on October 16, 2024. Consistent with criteria established for the monitoring program, a Vactron™ vacuum truck was used to recover LNAPL from

one monitoring well (K55), where recoverable product (measurable LNAPL thickness greater than 0.1 ft) was detected. During this VEFR event, a total of approximately 3 gallons of oily water was removed from the well. The oily water from this well was drummed and disposed of properly as discussed in previous progress updates.

A summary of each well gauging event conducted during this reporting period is presented in Table 1. The monthly field inspection forms are included in Attachment A. The locations of the monitoring wells that were gauged are shown on Figure 1.

2. Deviations from Work Plan

There were no deviations from the work plan during the reporting period.

3. Recommendations

Con Edison will continue the monitoring and recovery program for LNAPL at the monitoring wells listed in Table 1 based on the modifications to the program proposed in ICM Quarterly Report No. 96.

The next quarterly progress report will be submitted to the NYSDEC on or about April 15, 2025.

If you have any questions or concerns, please feel free to contact me at (917) 690-6778.

Respectfully,

Melissa Abt
Project Manager
EH&S, MGP Remediation
Consolidated Edison Company of NY, Inc.

cc: Douglas MacNeal, P.E., NYSDEC (douglas.macneal@dec.ny.gov)
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Attachments:

Table 1 – ICM LNAPL Gauging Summary, October - December 2024
Figure 1 – ICM LNAPL Monitoring Wells
Attachment A – ICM Field Inspection Forms, October - December 2024

Tables

Con Edison
Astoria, NY

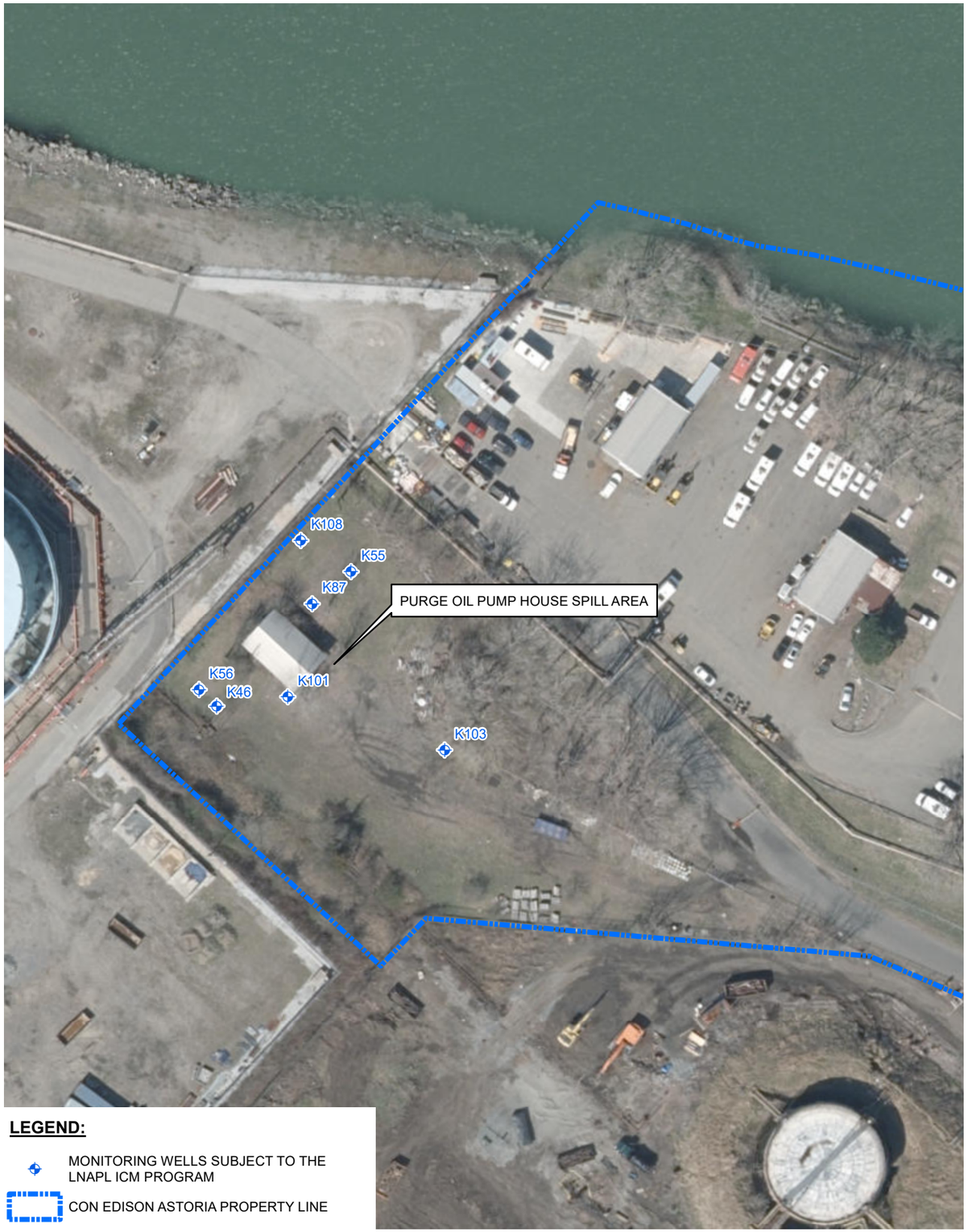
PARSONS

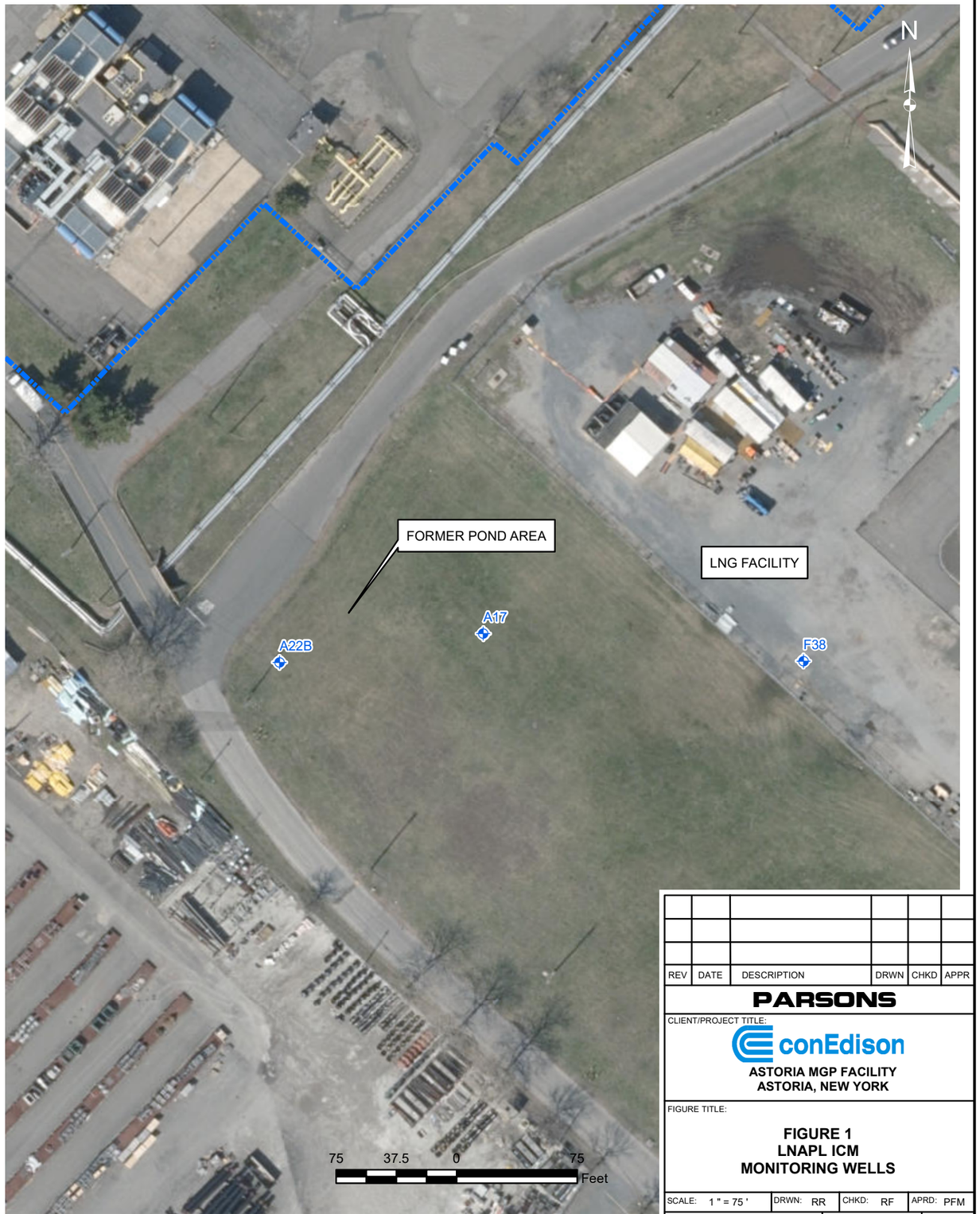
TABLE 1
ICM LNAPL GAUGING SUMMARY
October - December, 2024

Well Location	Well I.D.	October 16, 2024 (VEFR Event)			November 11, 2024			December 12, 2024		
		Depth to LNAPL (ft)	Depth to GW (ft)	LNAPL Thickness (ft)	Depth to LNAPL (ft)	Depth to GW (ft)	LNAPL Thickness (ft)	Depth to LNAPL (ft)	Depth to GW (ft)	LNAPL Thickness (ft)
Former Pond Area	A17	ND	8.58	ND	ND	6.02	ND	ND	8.46	ND
	A22B	Sheen	12.85	Sheen	Sheen	13.01	Sheen	Sheen	13.20	Sheen
Purge Oil Pump House	K46	9.50	9.55	0.05	Sheen	9.41	Sheen	7.64	9.10	1.46
	K55	10.98	11.31	0.33	10.03	10.24	0.21	10.53	11.15	0.62
	K56	ND	6.76	ND	ND	6.98	ND	ND	8.32	ND
	K87	ND	10.40	ND	ND	8.42	ND	9.20	9.24	0.04
	K101	ND	7.93	ND	ND	9.09	ND	ND	8.19	ND
	K103	ND	7.67	ND	ND	7.84	ND	ND	6.99	ND
	K108	ND	7.62	ND	ND	6.97	ND	ND	9.05	ND
LNG Facility	F38 (1)	Sheen	5.42	Sheen	ND	6.49	ND	Sheen	5.82	Sheen

Notes:
Reported LNAPL thickness is the 'apparent' measured thickness with an oil/water interface probe.
(1) = Well F38 was modified on March 28, 2024 to match the regraded ground surface at the LNG Facility.
Legend:
NA = Not Applicable
ND = Not Detected
NG = Not Gauged

Figures





LEGEND:

MONITORING WELLS SUBJECT TO THE LNAPL ICM PROGRAM

CON EDISON ASTORIA PROPERTY LINE

REV	DATE	DESCRIPTION	DRWN	CHKD	APPR

PARSONS

CLIENT/PROJECT TITLE:

conEdison

ASTORIA MGP FACILITY
ASTORIA, NEW YORK

FIGURE TITLE:

FIGURE 1
LNAPL ICM
MONITORING WELLS

SCALE:	1 " = 75 '	DRWN:	RR	CHKD:	RF	APRD:	PFM
DWG:	FIGURE 1	DATE:	MAR. 2023	REV:	-		

P:\PIT\Projects\ConEd\Astoria\CAD\GIS\LNAPL\FIGURE 1.mxd

Attachment A

ICM Field Inspection Form - Inspection #362
Con Edison, Astoria NY
Pump House, Former Pond, and LNG Areas

October 16, 2024

PARSONS

Well ID	Well Location	Depth to LNAPL (Feet)	Depth to GW (Feet)	LNAPL Thickness (Feet)	Depth to Bottom (Feet)	ICM Field Activity Description	PID (ppm)	Sock Saturation	Comments
K46	Purge Oil Pump House	9.50	9.55	0.05	10.78 **	Gauge and replace sock	20.9	100%	dark brown/black medium viscosity LNAPL
K55	Purge Oil Pump House	10.98	11.31	0.33	12.12	Gauge, replace sock, and VEFR	19.8	60%	Light brown low viscosity LNAPL
K56	Purge Oil Pump House	ND	6.76	ND	11.78 **	Gauge and replace sock	0.9	80%	Brown medium viscosity LNAPL
K87	Purge Oil Pump House	ND	10.40	ND	12.75	Gauge and replace sock	18.4	15%	Brown low viscosity LNAPL
K101	Purge Oil Pump House	ND	7.93	ND	9.10	Gauge and replace sock	6.8	50%	Black medium viscosity LNAPL
K103	Purge Oil Pump House	ND	7.67	ND	9.68	Gauge and replace sock	2.8	80%	black/dark brown medium viscosity LNAPL
K108	Purge Oil Pump House	ND	7.62	ND	12.38	Gauge and replace sock	0.6	40%	Brown medium viscosity LNAPL
A17	Former Pond Area	ND	8.58	ND	10.88	Gauge and replace sock	0.0	0%	
A22B	Former Pond Area	Sheen	12.85	Sheen	19.05	Gauge and replace sock	1.1	50%	black medium viscosity LNAPL
F38	LNG Facility	Sheen	5.42	Sheen	13.08 ***	Gauge and replace sock	2.4	40%	Light brown/gray low viscosity LNAPL

ND = Not Detected
NG = Not Gauged
PID = Photoionization Detector
ppm = Parts Per Million
Sheen = Visual identification of NAPL on probe, or detected by probe, but not enough to trigger 0.01 ft detection limit of interface probe.
** = Well depth has increased slightly. Former Depth to Bottom at K46 was 9.71 ft. Former Depth to Bottom at K56 was 11.60 ft.
*** = Well F38 was modified on March 28, 2024 to match the regraded ground surface at the LNG Facility.

ICM Field Inspection Form - Inspection #363
Con Edison, Astoria NY
Pump House, Former Pond, and LNG Areas

November 11, 2024

PARSONS

Well ID	Well Location	Depth to LNAPL (Feet)	Depth to GW (Feet)	LNAPL Thickness (Feet)	Depth to Bottom (Feet)	ICM Field Activity Description	PID (ppm)	Sock Saturation	Comments
K46	Purge Oil Pump House	Sheen	9.41	Sheen	10.76 **	Gauge and replace sock	32.6	100%	
K55	Purge Oil Pump House	10.03	10.24	0.21	12.10	Gauge and replace sock	17.4	80%	
K56	Purge Oil Pump House	ND	6.98	ND	11.81 **	Gauge	1.0	5%	
K87	Purge Oil Pump House	ND	8.42	ND	12.75	Gauge	15.2	0%	
K101	Purge Oil Pump House	ND	9.09	ND	9.13	Gauge and replace sock	10.2	55%	
K103	Purge Oil Pump House	ND	7.84	ND	9.67	Gauge and replace sock	3.4	35%	
K108	Purge Oil Pump House	ND	6.97	ND	12.40	Gauge	0.3	0%	
A17	Former Pond Area	ND	6.02	ND	10.88	Gauge	0.0	5%	
A22B	Former Pond Area	Sheen	13.01	Sheen	19.03	Gauge and replace sock	0.7	100%	
F38	LNG Facility	ND	6.49	ND	13.11 ***	Gauge	1.8	15%	

ND = Not Detected
NG = Not Gauged
PID = Photoionization Detector
ppm = Parts Per Million
Sheen = Visual identification of NAPL on probe, or detected by probe, but not enough to trigger 0.01 ft detection limit of interface probe.
** = Well depth has increased slightly. Former Depth to Bottom at K46 was 9.71 ft. Former Depth to Bottom at K56 was 11.60 ft.
*** = Well F38 was modified on March 28, 2024 to match the regraded ground surface at the LNG Facility.

ICM Field Inspection Form - Inspection #364
Con Edison, Astoria NY
Pump House, Former Pond, and LNG Areas

December 12, 2024

PARSONS

Well ID	Well Location	Depth to LNAPL (Feet)	Depth to GW (Feet)	LNAPL Thickness (Feet)	Depth to Bottom (Feet)	ICM Field Activity Description	PID (ppm)	Sock Saturation	Comments
K46	Purge Oil Pump House	7.64	9.10	1.46	10.80 **	Gauge and remove sock	124.2	100%	Black medium viscosity LNAPL
K55	Purge Oil Pump House	10.53	11.15	0.62	12.13	Gauge and remove sock	391.6	80%	Light brown low viscosity
K56	Purge Oil Pump House	ND	8.32	ND	11.72 **	Gauge and remove sock	3.0	40%	Light brown low viscosity
K87	Purge Oil Pump House	9.20	9.24	0.04	12.75	Gauge and remove sock	168.0	60%	Rusty brown, medium viscosity
K101	Purge Oil Pump House	ND	8.19	ND	9.02	Gauge and remove sock	10.8	30%	Dark brown, medium viscosity
K103	Purge Oil Pump House	ND	6.99	ND	9.63	Gauge and remove sock	34.5	70%	Dark brown, low viscosity
K108	Purge Oil Pump House	ND	9.05	ND	12.29	Gauge and remove sock	0.0	10%	Light brown low viscosity
A17	Former Pond Area	ND	8.46	ND	9.95	Gauge and remove sock	8.4	0%	
A22B	Former Pond Area	Sheen	13.20	Sheen	19.05	Gauge and remove sock	17.8	90%	black medium viscosity
F38	LNG Facility	Sheen	5.82	Sheen	13.08 ***	Gauge and remove sock	38.8	10%	Light brown low viscosity

ND = Not Detected
NG = Not Gauged
PID = Photoionization Detector
ppm = Parts Per Million
Sheen = Visual identification of NAPL on probe, or detected by probe, but not enough to trigger 0.01 ft detection limit of interface probe.
** = Well depth has increased slightly. Former Depth to Bottom at K46 was 9.71 ft. Former Depth to Bottom at K56 was 11.60 ft.
*** = Well F38 was modified on March 28, 2024 to match the regraded ground surface at the LNG Facility.