

Consolidated Edison Company of New York, Inc. 31-01 20th Avenue Long Island City NY 11105-2048 www.conEd.com

February 7, 2014

Via Electronic Mail

Douglas MacNeal New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway Albany, NY 12233-1011

Re: Outfall **B** Dewatering Well Points

Groundwater Analytical Data for F110D, F82, MGP121S

Con Edison, Astoria Facility

Dear Mr. MacNeal:

The purpose of this letter is to present the results of groundwater monitoring conducted on select monitoring wells within the Consolidated Edison (Con Edison) Astoria facility. The groundwater monitoring events were conducted as requested by the New York State Department of Environmental Conservation (NYSDEC) following a dewatering event for the Astoria Outfall B replacement project.

In September of 2013, during the Outfall B replacement project, 52 temporary dewatering well points were installed along 19th Drive on the Astoria facility to allow for construction dewatering. During construction, groundwater was pumped at a rate of up to 400 gallons per minute from the dewatering system. Groundwater pumped from these temporary well points was treated on site via an approved water treatment system, sampled, and discharged to the stormwater system. The New NYSDEC requested groundwater monitoring to assess any impacts that the dewatering activities could have on the groundwater conditions on the Astoria site. In response to the NYSDEC request, Con Edison conducted groundwater monitoring on three wells (F110D, MGP121S, and F82) located near the dewatering system. The results from these three monitoring wells were compared to historical analytical results from the sampling events conducted prior to dewatering.

The groundwater samples were collected from monitoring wells F110D, MGP121S, and F82 on August, 7, 9, and 15, 2013, respectively prior to dewatering and again on October 23, 2013 after dewatering activities were completed in this area. A duplicate sample was collected from MGP121S during each sampling event. The groundwater samples were analyzed for Volatile Organic Compounds (VOCs) by EPA SW-846 Methods 8260C, Semivolatile Organic Compounds (SVOCs) by EPA SW-846 Method 8270D, metals by EPA SW-846 Method 6010B, mercury by EPA SW-846 Methods 7470A, cyanide by EPA Method 335.4, and polychlorinated biphenyls (PCBs) by EPA SW-846 Method 8082A. The samples were analyzed by Test America, Inc. of New York City. The groundwater analytical results are included in Table 1. Where available, historic groundwater data from the monitoring wells has also been included in Table 1. The location of the dewatering wells, and the location of the wells that were sampled are shown on Figure 1.

The analytical results were compared to the ambient water quality standards or guidance values (AWQSGVs) listed in NYSDEC Technical and Operations Guidance Series 1.1.1. Benzene, ethylbenzene, toluene, total xylene, isopropylbenzene, styrene, and napthalene exceednaces above the AWQSGV were documented only in the sample collected from F110D. Chromium was detected at concentration exceeding the AWQSGV only in the sample collected from F82. Iron and manganese were detected at concentration exceeding the AWQSGV in the samples collected from F110D and

MGP121S. Sodium was detected in all three monitoring wells at concentrations exceeding the AWQSGV. Total cyanide exceedances above the AWQSGV were documented in F110D and F82.

No significant increase in contaminant concentrations was noted in the monitoring wells between the August and October 2013 sampling events. F110D did show a general slight increase in concentration during the October sampling event, and will be resampled in the first guarter of 2014.

Please note that the dewatering wells installed along the 19th Drive between 23rd Street and 21st Street were abandoned by overdrilling and grouting between December 9 through 16, 2013. The hard copies of the well decommissioning records will be submitted to NYSDEC separately.

Additional dewatering wells will be installed along the 19th Drive from 21st street to the entry gate to the USPowergen property as part of the ongoing Outfall B replacement project. Additional information on the new dewatering wells, as well as the adjacent monitoring wells that will be sampled both prior to and after the dewatering event, will be provided shortly under a separate cover.

If you have any questions, please contact me at (718) 267-3866 or Barry Cohen at (718) 204-4252.

Very truly yours,

Matthew Madsen Project Manager Remediation

Environment, Health and Safety

cc: Barry Cohen, Con Edison (cohenba@coned.com)

Phil Flax, USEPA (flax.phil@epa.gov)

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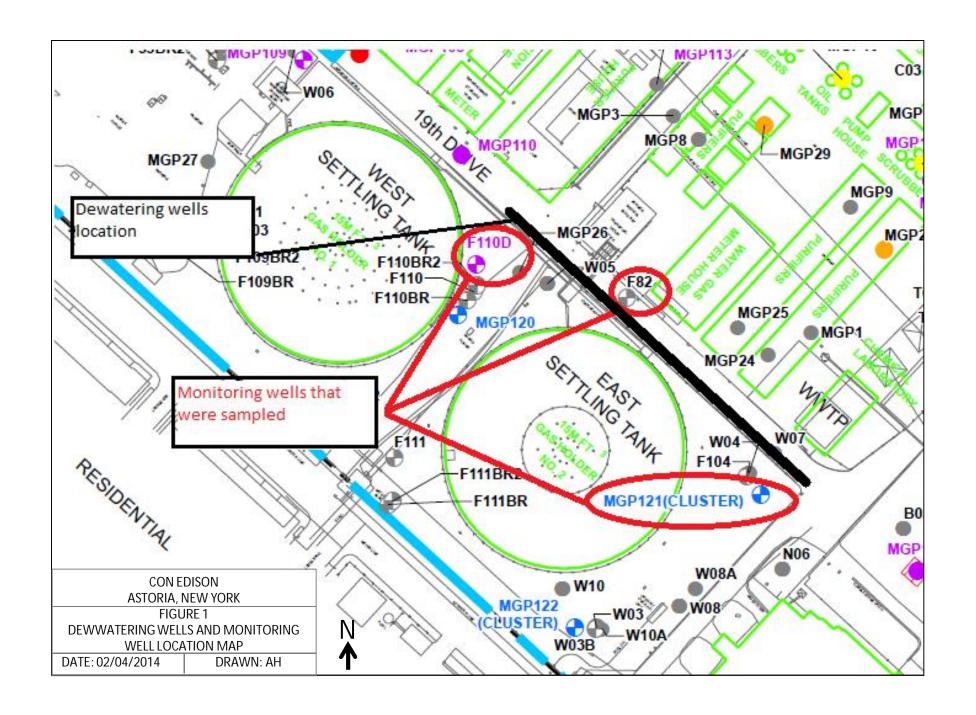


Table 1 Groundwater Analytical Data for F110D, F82, MGP121S Con Edison, Astoria, NY

Location ID Sample Date Sample ID SDG	NYSDEC Groundwater Guidance or Standard Value	F110D 8/7/2013 DUP-080713 460-60706-1	F110D 8/7/2013 F110D-080713 460-60706-1	F110D 10/23/2013 F110D-102313 460654341	F82 1/26/2005 F82 R2524721	F82 11/16/2007 F82ZS R2740880	F82 1/26/2010 F82 ZS_012610 AECOM070	F82 1/28/2010 F83 ZD_012810 AECOM070	F82 8/15/2013 F82-081513 460-61164-1	F82 10/23/2013 F82-102313 460654341	MGP121S 8/9/2013 MGP121S-080913 460-60984-1	MGP121S 8/9/2013 DUP-080913 460-60984-1	MGP121S 10/23/2013 MGP121S-102313 460654341	MGP121SP 10/23/2013 MGP121SP-102313 460654341
BTEX (ug/L)														
Benzene	1	6700	6900	7400	< 5.0 U	< 1 U	NS	NS	< 1.0 U	0.12	< 1.0 U	< 1.0 U	< 1.0	0.081
Ethylbenzene	5	460	460	530	< 5.0 U	< 1 U	NS	NS	< 1.0 U	< 1.0	< 1.0 U	< 1.0 U	< 1.0	< 1.0
m&p-Xylene	NL	120	130	130	< 5.0 U	< 1 U	NS	NS	< 2.0 U	< 2.0	< 2.0 U	< 2.0 U	< 2.0	< 2.0
o-Xylene	NL	120	120	120	< 5.0 U	<1U	NS	NS	< 1.0 U	< 1.0	< 1.0 U	< 1.0 U	< 1.0	< 1.0
Toluene	5	23 J	25	62	< 5.0 U	<1U	NS	NS	< 1.0 U	< 1.0	< 1.0 U	< 1.0 U	< 1.0	< 1.0
Total Xylene (calculated)	5	240	250	250	< 5.0	< 1	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total BTEX	NL	7423	7635	8242	ND	ND	NS	NS	ND	0.12	ND	ND	ND	0.081
VOCs (ug/L)														
2-Butanone	50	< 130 U	< 130 U	< 130	1.3 J	0.81 J	NS	NS	< 5.0 U	< 5.0	< 5.0 U	< 5.0 U	< 5.0	< 5.0
Chloroform	7	< 25 U	< 25 U	< 25	< 5.0 U	< 1 U	NS	NS	0.14 J	0.22	< 1.0 U	< 1.0 U	< 1.0	0.25
Isopropylbenzene	5	17 J	19 J	20	NS	< 1 U	NS	NS	< 1.0 U	< 1.0	< 1.0 U	< 1.0 U	< 1.0	< 1.0
Styrene	5 5	13 J	14 J	35	< 5.0 U	< 1 U	NS NS	NS NS	< 1.0 U	< 1.0 0.48	< 1.0 U	< 1.0 U	< 1.0	< 1.0
Tetrachloroethene	· · · · · · · · · · · · · · · · · · ·	< 25 UJ	< 25 UJ	< 25	1.0 J	2.6	NS NC	NS NC	1.1		2.4	< 1.0 U	0.72	0.71
Trichloroethene Total VOCs	5	< 25 U 7453	< 25 U 7668	< 25 8297	< 5.0 U	0.62 J	NS	NS	0.19 J	< 1.0 0.82	0.31 J 2.71	< 1.0 U ND	< 1.0 0.72	0.22
PAHs (ug/L)	NL	7453	7008	8297	2.3	4.03	NS	NS	1.43	0.82	2.71	ND	0.72	1.261
2-Methylnaphthalene	NL	3.3 J	4.2 J	< 50	< 9.6 U	< 9.5 U	NS	NS	< 10 U	< 10	< 10 U	< 10 U	< 10	< 10
Fluoranthene	50	< 20 U	< 22 U	< 50	1.1 J	< 9.5 U	NS	NS	< 10 U	< 10	< 10 U	< 10 U	< 10	< 10
Naphthalene	10	360	390	420	< 9.6 U	< 9.5 U	NS	NS	< 10 U	< 10	< 10 U	< 10 U	< 10	< 10
Pyrene	50	< 20 U	< 22 U	< 50	1.2 J	< 9.5 U	NS	NS	< 10 U	< 10	< 10 U	< 10 U	< 10	< 10
Total PAHs	NL	363.3	394.2	420	2.3	< 9.5 U	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10
SVOCs (ug/L)														
Phenol	1	8.0 J	13 J	25	< 9.6 U	< 9.5 U	NS	NS	< 10 U	< 10	< 10 U	< 10 U	< 10	< 10
Total SVOCs	NL	371.3	407.2	445	2.3	ND	NS	NS	ND	ND	ND	ND	ND	ND
Metals (ug/L)														
Aluminum	NL	NS	NS	133	4620 J	NS	NS	NS	NS	302	NS	NS	504	554
Arsenic	25	< 5.0 U	< 5.0 U	< 5.0	< 3.2 UJ	NS	NS	NS	5.1	< 5.0	< 5.0 U	< 5.0 U	< 5.0	< 5.0
Barium	1000	237	236	253	92.8 J	NS	NS	NS	529	41.2	144 J	42.6 J	149	152
Calcium	NL	NS	NS	66400	73100 J	NS	NS	NS	NS	57400	NS	NS	71100	74100
Chromium	50	< 10.0 U	< 10.0 U	< 10.0	9.2 J	NS	NS	NS	108	< 10.0	< 10.0 U	< 10.0 U	< 10.0	< 10.0
Copper	200	NS	NS	< 25.0	3.3 J	NS	NS	NS	NS	< 25.0	NS	NS	< 25.0	< 25.0
Iron	300	NS	NS	2070	1840 J	5390	NS	NS	NS	209	NS	NS	515	570
Lead	25	< 5.0 U	< 5.0 U	< 5.0	< 1.2 UJ	< 3.7 U	NS	NS	47.8	< 5.0	< 5.0 U	< 5.0 U	< 5.0	< 5.0
Magnesium	35000	NS	NS	22000	15700 J	NS	NS	NS	NS	11300	NS	NS	9910	10400
Manganese	300	NS	NS	392	18.0 J	NS	NS	NS	NS	< 15.0	NS	NS	459	479
Nickel	100	NS	NS NS	6.1	6.0 J	NS NG	NS	NS NS	NS NS	< 40.0	NS	NS	< 40.0	< 40.0
Potassium	NL 20000	NS NS	NS NS	6980	61800 J	NS NC	NS NC	NS NC	NS NC	10100	NS NS	NS NS	2600	2660
Sodium	20000	NS	NS NS	52100	185000 E	NS	NS	NS	NS	189000	NS	NS	147000	148000
Vanadium	NL 2000	NS NS	NS NS	< 50.0	55.3 J	NS NC	NS NC	NS NS	NS NS	11.1	NS NS	NS NS	< 50.0	< 50.0
Zinc	2000	NS	NS	< 30.0	5.0 J	NS	NS	NS	NS	< 30.0	NS	NS	< 30.0	< 30.0
Cyanide (ug/L)	NII .	NO	NO	NO	0.1	40	NO	NO	NO	NO	NO	NO	NO	NO
Physiologically available Cyanide	NL 200	NS 220 I	NS 220 I	NS 470	6 J	18	NS NC	NS NC	NS 440 I	NS 340	NS 42.1	NS 27 J-	NS 22	NS 24
Total Cyanide	200	330 J-	330 J-	4/0	12.4	31.5	NS	NS	110 J-	340	13 J-	21 J-	22	24
PCBs (ug/L)	0.00	0.40	0.40	110	0.011	4011	0.005.11	0.00511	0.40	0.40	0.40	0.40	2.42	110
Total PCB	0.09	< 0.40	< 0.42	NS	< 2.0 U	< 1.9 U	< 0.065 U	< 0.065 U	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	NS

Notes:

Bold value = detected above reporting limit

Gray Highlighted values exceed NYSDEC Groundwater Guidance or Standard Value

NL = Not listed

ND = Not detected

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyt J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.