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October 31, 2014

Mr. Joseph O'Connell
Engineering Geologist
NYSDEC Division of Environmental Engineering
Region 2
47-40 21st Street,
Long Island City, NY 11101-5407

Subject: **Work Performed to Date and Proposed Site Activity**
Con Edison Appendix B Spill Site No. 63
Wythe Avenue and North 13th Street
Brooklyn, New York
Spill number 9305511

Dear Mr. O'Connell:

On behalf of Con Edison, CDM Smith is providing the enclosed summary of work performed to date and proposed site activity for Appendix B, Site No. 63:

CDM Smith began work at Con Edison Site 63 on August 13th, 2014 to investigate residual contamination resulting from a dielectric fluid spill from the circulating line of Feeder 62 caused by a persistent leak from a 2-inch water service pipe that impinged on the line.

Prior to beginning intrusive activities, geophysical investigations to identify subsurface utilities and mark potential test pit and boring locations in the intersection of Wythe Avenue and North 13th Street and along Wythe Avenue north of North 13th Street were conducted on August 13th and 15th, 2014. The markouts identified the location of a 2-inch water service line running perpendicular and crossing Feeder 62 and its circulating line just north of 13th Street. Based on the information provided for the spill, it was concluded that this could be the location of the release, and borings and a test pit location were selected and confirmed with NYSDEC.

Intrusive work at Site 63 commenced the week of September 4th, 2014 on Wythe Avenue just north of North 13th Street. Clearance of four boring locations to 5 feet below ground surface (bgs) and excavation of test pit 63-TP-01 was completed. The test pit excavation exposed the intersection of a water service line with both Feeder 62 and its circulating line. No evidence of a repair was identified on either the feeder or the recirculating line. This was confirmed by Con Edison Transmissions Operations personnel. A Con Edison corrosion specialist was dispatched on September 17th, 2014 and confirmed the identity of each 10-inch line.

Following Con Edison and NYSDEC confirmation that no repair was visible on either line, work at Site 63 continued along Wythe Avenue south of North 13th Street. Tap cards obtained by Joe O'Connell of NYSDEC indicated that a service line had been installed 26 feet south of the north building line of 94/102 North 13th Street on the east side of Wythe Avenue and that a water service line supplying 94 North 13th Street/103 North 12th Street had been removed on April 4, 2014. An additional geophysical investigation identified a potential test pit location (63-TP-01) in the presumed former location of the water service line where it was expected to intersect the circulating line based on a surficial fracture observed on adjacent concrete, as well as boring locations extending north and south of the test pit location along Wythe Avenue. The test pit and borings locations were emplaced in the vicinity of observed patching in the road surface, which may be evidence that a water line was removed at the location.

Additional test pits were cleared to the west and north of 63-TP-02 to expose additional portions of the Feeder 62 circulating line, but no repair was visible on the line. Clearance continued at the four boring locations (63-B-01, 63-B-02, 63-B-03, and 63-B-04); during boring clearance PID readings above normal were noted as was dark-stained soil having a petroleum odor.

Soil boring sampling was completed at all four boring locations via direct push drilling techniques. Soil samples were collected from native soil and sent for dielectric fluid analysis via EPA Modified Method 8100 (dielectric fluid range hydrocarbons), as well as additional analysis for volatile organic compounds and semi-volatile organic compounds, as requested by NYSDEC. Two one-inch temporary monitoring wells were installed to a depth of 20 feet bgs at locations 63-B-02 and 63-B-04 on September 26, 2014. CDM Smith returned to Site 63 on October 17, 2014 to develop the temporary monitoring wells. Following well development, the wells were patched and left to stabilize for a period of approximately two weeks.

The un-validated results of laboratory analysis for soil samples collected from borings 63-B01, 63-B02, 63-B03, and 63-B04 were screened against the NYSDEC approved Soil Cleanup Criteria for Total Petroleum Hydrocarbons and Dielectric Fluids developed during the *Con Edison/EPRI Technical Report Characteristics of Pipe-Type Cable Fluids - Environmental Data Protocol and Comprehensive Test Matrix for Fluid Evaluation*, dated January 2003. The results of additional analysis for semi-volatile organic compounds (SVOCs) and volatile organic compounds (VOCs) were screened against the *Table 375-6.8(b): Restricted Use Soil Cleanup Objectives (SCOs) for Protection of Groundwater.* Those analytes for which 75-6.8(b) Restricted Use SCOs were not available, *CP-51/Soil Cleanup Guidance Supplemental Soil Cleanup Objectives* were used. The results of soil screening for petroleum products and dielectric fluid compounds were all non-detect, except for locations 63-B01 and 63-B02, where gasoline was detected at concentrations of 96.5 mg/kg and 702 mg/kg, respectively, at a depth of 9.5 feet bgs.

Although most SVOC and VOC results were also non-detect, some of these compounds were detected in samples collected from locations 63-B01, 63-B02, and 63-B03. Concentrations of benzo(a)anthracene and chrysene exceeding soil clean up criteria were detected in location 63-B03 at depths of 6 and 9.5 feet bgs. In the soil sample collected from 63-B02 at a depth of 9.5 feet bgs,

soil clean up criteria exceedances were noted for naphthalene, o-xylene, 1,2,4-trimethylbenzene, isopropylbenzene, ethylbenzene, n-propylbenzene, m,p-xylene, and 1,3,5-trimethylbenzene. In the soil sample collected from 63-B01 at a depth of 9.5 feet bgs soil clean up criteria exceedances were noted for benzene, ethylbenzene, and m,p-xylene. No analytes were detected in any of the field blanks. Soil sampling results are shown in **Attachment 1**.

Based on the compounds detected, it is assumed that the contamination identified is associated with the adjacent MGP site, urban fill material, or an unknown source and not the dielectric fluid leak from Feeder 62.

The next steps for the site are:

1. Collect groundwater samples from the monitoring wells at 63-B-02 and 63-B-04 the week of November 3rd or 10th.
2. The groundwater data collected for the site will be reviewed as soon as they are available and the results discussed with NYSDEC.
3. Based on the results and discussions with NYSDEC, additional investigation may continue along Wythe Avenue between North 13th Street and North 14th Street. Soil borings will be advanced along the east side of Wythe Avenue, at a distance of approximately 50 feet apart along the length of the block (4-5 additional borings). At least one additional groundwater monitoring well will be installed; additional monitoring wells may be installed if contamination is identified at one or more of the proposed boring locations. Additional geophysical investigation will be required prior to commencing additional intrusive work. New permits will also be required for the additional work to proceed.

If you have any questions, please feel free to contact Angel Chang at Con Edison at (718) 204-4151 or me at (732) 590-4646.

Very truly yours,

Betty Krupka
Project Manager
CDM Smith Inc.

Attachment 1: Table 1: Soil Sampling Results
Table 2: Field Blank Results

cc: A. Chang, Con Ed
B. Cohen, Con Ed
J. Beattie, CDM Smith

ATTACHMENT 1

Soil Sampling Results

Table 1
Soil Sampling Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Sample Name: Sample Depth (feet bgs): Collected Date: Sample Type:	**SOIL CLEANUP CRITERIA[a,b,c]**	63-B04-6 5.5-6 09/26/14 Soil	63-B04-11 10.5-11 09/26/14 Soil	63-B04-11DUP 10.5-11 09/26/14 Soil	63-B03-6 5.5-6 09/26/14 Soil	63-B03-9.5 9-9.5 09/26/14 Soil	63-B02-6 5.5-6 09/26/14 Soil	63-B02-9.5 9-9.5 09/26/14 Soil	63-B01-7.5 7-7.5 09/26/14 Soil	63-B01-9.5 9-9.5 09/26/14 Soil
Analyte										
Petroleum Products (mg/kg)										
Gasoline	1,000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	**702**	<11.6	**96.5**
Lubricating Oils	NL	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Kerosene/Jet Fuel	1,000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
#2 Fuel Oil/Diesel	1,000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
#4 Fuel Oil	1,000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
#6 Fuel Oil	1,000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
THC By Mod 8100	NA	<13.0	**59.1**	**111**	**154**	**760**	**37.2**	**880**	**106**	**149**
Dielectric Fluid Compounds (mg/kg)										
Chevron 100	13000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Chevron 500	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Silicon Base TR	NA	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Low Vis. Cable	13000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Sun#2 Base TR.O	13000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Sun#4 Cable Oil	13000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Sun#6 Cable Oil	13000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Sun#8 II Base T	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
10C Transformer	NL	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Sun C/DCL 100	NL	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
LVP STD	NL	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 51	13000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 28242	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 38M35	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 69M41	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 69M43	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 18002	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
High Viscosity Polycable	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 38R51	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 52	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 24032	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Transformer Oil	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Univolt 60 Transformer Oil	7400	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0
Feeder 63	13000	<10.8	<11.0	<11.1	<11.5	<12.1	<12.0	<11.4	<11.6	<12.0

Table 1
Soil Sampling Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Sample Name: Sample Depth (feet bgs): Collected Date: Sample Type:	SOIL CLEANUP CRITERIA[a,b,c]	63-B04-6 5.5-6 09/26/14 Soil	63-B04-11 10.5-11 09/26/14 Soil	63-B04-11DUP 10.5-11 09/26/14 Soil	63-B03-6 5.5-6 09/26/14 Soil	63-B03-9.5 9-9.5 09/26/14 Soil	63-B02-6 5.5-6 09/26/14 Soil	63-B02-9.5 9-9.5 09/26/14 Soil	63-B01-7.5 7-7.5 09/26/14 Soil	63-B01-9.5 9-9.5 09/26/14 Soil
Analyte										
Semivolatile Organic Compounds (µg/kg)										
1,2,4-Trichlorobenzene	3400	<42.5	<43.4	<43.9	<45.6	<47.8	<47.2	<44.9	<45.7	<47.6
1,2-Dichlorobenzene	1100	<34.4	<35.1	<35.6	<36.9	<38.7	<38.3	<36.4	<37.0	<38.6
1,2-Diphenylhydrazine	NL	<39.0	<39.7	<40.2	<41.8	<43.8	<43.3	<41.1	<41.9	<43.6
1,3-Dichlorobenzene	2400	<34.8	<35.5	<35.9	<37.3	<39.1	<38.6	<36.7	<37.4	<38.9
1,4-Dichlorobenzene	1800	<30.9	<31.5	<31.9	<33.1	<34.7	<34.3	<32.6	<33.2	<34.6
2,3,4,6-Tetrachlorophenol	NL	<39.1	<39.8	<40.3	<41.9	<43.9	<43.4	<41.3	<42.0	<43.7
2,4,5-Trichlorophenol	100	<16.3	<16.6	<16.8	<17.4	<18.3	<18.1	<17.2	<17.5	<18.2
2,4,6-Trichlorophenol	NL	<32.2	<32.8	<33.2	<34.5	<36.2	<35.8	<34.0	<34.6	<36.0
2,4-Dichlorophenol	400	<32.5	<33.2	<33.6	<34.8	<36.5	<36.1	<34.3	<35.0	<36.4
2,4-Dimethylphenol	NL	<34.9	<35.6	<36.0	<37.4	<39.2	<38.8	<36.8	<37.5	<39.0
2,4-Dinitrophenol	200	<1080	<1100	<1110	<1150	<1210	<1200	<1140	<1160	<1200
2,4-Dinitrotoluene	NL	<35.1	<35.8	<36.2	<37.6	<39.4	<39.0	<37.0	<37.7	<39.3
2,6-Dinitrotoluene	1000	<31.4	<32.1	<32.4	<33.7	<35.3	<34.9	<33.2	<33.8	<35.2
2-Chloronaphthalene	NL	<31.9	<32.5	<32.9	<34.1	<35.8	<35.4	<33.6	<34.3	<35.7
2-Chlorophenol	NL	<40.9	<41.7	<42.2	<43.8	<45.9	<45.5	<43.2	<44.0	<45.8
2-Methylnaphthalene	36400	<33.6	<34.2	<34.7	**80.7**	<37.7	**404**	**3860**	<36.1	**1290**
2-Methylphenol	330	<31.1	<31.7	<32.1	<33.3	<34.9	<34.6	<32.8	<33.4	<34.8
2-Nitroaniline	400	<14.1	<14.4	<14.6	<15.1	<15.8	<15.7	<14.9	<15.2	<15.8
2-Nitrophenol	300	<14.2	<14.5	<14.7	<15.2	<16.0	<15.8	<15.0	<15.3	<15.9
3+4-Methylphenol	330	<35.4	<36.1	<36.6	<37.9	<39.8	<39.4	<37.4	<38.1	<39.6
3,3'-Dichlorobenzidine	NL	<68.2	<69.6	<70.4	<73.1	<76.7	<75.8	<72.0	<73.4	<76.4
3-Nitroaniline	500	<52.3	<53.3	<54.0	<56.1	<58.8	<58.1	<55.2	<56.3	<58.6
4,6-Dinitro-2-methylphenol	NL	<85.7	<87.4	<88.4	<91.8	<96.3	<95.2	<90.5	<92.1	<95.9
4-Bromophenyl phenyl ether	NL	<30.9	<31.5	<31.9	<33.1	<34.7	<34.3	<32.6	<33.2	<34.6
4-Chloro-3-methylphenol	NL	<31.0	<31.6	<32.0	<33.2	<34.8	<34.4	<32.7	<33.3	<34.7
4-Chloroaniline	220	<46.5	<47.4	<48.0	<49.8	<52.2	<51.7	<49.1	<50.0	<52.0
4-Chlorophenyl phenyl ether	NL	<22.9	<23.4	<23.7	<24.6	<25.8	<25.5	<24.2	<24.7	<25.7
4-Nitroaniline	NL	<41.2	<42.0	<42.6	<44.2	<46.3	<45.8	<43.5	<44.3	<46.1
4-Nitrophenol	100	<40.9	<41.7	<42.2	<43.8	<45.9	<45.5	<43.2	<44.0	<45.8
Acenaphthene	98000	<27.7	<28.2	<28.6	**83**	**190**	<30.7	**36.4**	<29.7	**47**
Acenaphthylene	107000	<31.4	<32.1	<32.4	**142**	**158**	<34.9	**53.4**	<33.8	<35.2
Aniline	330	<34.7	<35.3	<35.8	<37.1	<38.9	<38.5	<36.6	<37.3	<38.8
Anthracene	1000000	<38.3	<39.1	<39.6	**586**	**277**	<42.6	<40.5	<41.2	<42.9
Benzidine	NL	<913	<931	<942	<978	<1030	<1010	<964	<981	<1020
Benzo(a)anthracene	1000	<51.0	<52.0	<52.7	**1500**	**1130**	<56.7	<53.9	<54.9	<57.1
Benzo(a)pyrene	22000	<48.7	<49.6	<50.2	**1520**	**1080**	<54.1	<51.4	<52.3	<54.5
Benzo(b)fluoranthene	1700	<47.0	<48.0	<48.6	**645**	**417**	<52.3	<49.7	<50.6	<52.7
Benzo(g,h,i)perylene	1000000	<34.6	<35.2	<35.7	**600**	**393**	<38.4	<36.5	<37.2	<38.7

Table 1
Soil Sampling Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Sample Name:	SOIL	63-B04-6	63-B04-11	63-B04-11DUP	63-B03-6	63-B03-9.5	63-B02-6	63-B02-9.5	63-B01-7.5	63-B01-9.5
Sample Depth (feet bgs):	CLEANUP	5.5-6	10.5-11	10.5-11	5.5-6	9-9.5	5.5-6	9-9.5	7-7.5	9-9.5
Collected Date:	CRITERIA[a,b,c]	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14
Sample Type:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte										
Semivolatile Organic Compounds (µg/kg)										
Benzo(k)fluoranthene	1700	<72.6	<74.0	<74.9	**919**	**670**	<80.6	<76.6	<78.0	<81.2
Benzoic acid	2700	<12400	<12600	<12800	<13300	<13900	<13800	<13100	<13300	<13900
Benzyl alcohol	NL	<29.1	<29.6	<30.0	<31.1	<32.6	<32.3	<30.7	<31.3	<32.5
Butyl benzyl phthalate	122000	<55.3	<56.4	<57.1	<59.3	<62.2	<61.5	<58.4	<59.5	<61.9
Carbazole	NL	<62.0	<63.2	<64.0	<66.4	<69.6	<68.9	<65.5	<66.7	<69.4
Chrysene	1000	<48.0	<49.0	<49.6	**1440**	**1040**	<53.3	<50.7	<51.6	<53.7
Cresols	330	<66.5	<67.8	<68.7	<71.2	<74.7	<74.0	<70.2	<71.5	<74.4
Di-n-butyl phthalate	8100	<47.5	<48.4	<49.0	<50.9	<53.3	<52.8	<50.1	<51.0	<53.1
Di-n-octyl phthalate	120000	<42.3	<43.1	<43.7	<45.3	<47.5	<47.0	<44.7	<45.5	<47.3
Dibenz(a,h)anthracene	1000000	<39.6	<40.4	<40.9	**290**	**236**	<44.0	<41.8	<42.6	<44.3
Dibenzofuran	210000	<27.6	<28.1	<28.4	<29.5	<31.0	<30.6	<29.1	<29.6	<30.8
Diethyl phthalate	7100	<45.6	<46.5	<47.1	<48.9	<51.3	<50.7	<48.2	<49.1	<51.1
Dimethyl phthalate	27000	<36.8	<37.5	<38.0	<39.4	<41.4	<40.9	<38.9	<39.6	<41.2
Fluoranthene	1000000	<48.7	<49.6	<50.2	**1440**	**1180**	<54.1	<51.4	<52.3	<54.5
Fluorene	386000	<31.6	<32.3	<32.7	**438**	<35.6	<35.2	**64.8**	<34.0	<35.4
Hexachlorobenzene	3200	<37.9	<38.6	<39.1	<40.6	<42.6	<42.1	<40.0	<40.7	<42.4
Hexachlorobutadiene	NL	<37.2	<38.0	<38.4	<39.9	<41.8	<41.4	<39.3	<40.0	<41.7
Hexachlorocyclopentadiene	NL	<11.3	<11.5	<11.7	<12.1	<12.7	<12.6	<11.9	<12.2	<12.7
Hexachloroethane	NL	<38.6	<39.4	<39.9	<41.4	<43.4	<42.9	<40.8	<41.6	<43.3
Indeno(1,2,3-cd)pyrene	8200	<38.1	<38.9	<39.3	**587**	**357**	<42.3	<40.2	<41.0	<42.7
Isophorone	4400	<31.1	<31.7	<32.1	<33.3	<34.9	<34.6	<32.8	<33.4	<34.8
N-Nitrosodi-n-propylamine	NL	<43.1	<43.9	<44.4	<46.1	<48.4	<47.8	<45.5	<46.3	<48.2
N-Nitrosodimethylamine	NL	<77.3	<78.8	<79.8	<82.8	<86.8	<85.9	<81.6	<83.1	<86.5
N-Nitrosodiphenylamine	NL	<46.8	<47.7	<48.3	<50.2	<52.6	<52.0	<49.4	<50.3	<52.4
Naphthalene	12000	<45.6	<46.5	<47.1	**178**	<51.3	**1640**	**21300**	<49.1	**8540**
Nitrobenzene	170	<29.2	<29.7	<30.1	<31.3	<32.8	<32.4	<30.8	<31.4	<32.7
Pentachlorophenol	800	<295	<301	<304	<316	<331	<328	<311	<317	<330
Phenanthrene	1000000	<44.9	<45.8	<46.3	**84.2**	<50.4	<49.9	**96.6**	<48.3	<50.2
Phenol	330	<39.5	<40.3	<40.8	<42.3	<44.4	<43.9	<41.7	<42.5	<44.2
Pyrene	1000000	<44.8	<45.7	<46.2	**2250**	**1900**	<49.8	**53.4**	<48.1	<50.1
Pyridine	NL	<36.9	<37.7	<38.1	<39.6	<41.5	<41.0	<39.0	<39.7	<41.3
bis(2-Chloroethoxy)methane	NL	<38.9	<39.6	<40.1	<41.6	<43.7	<43.2	<41.0	<41.8	<43.5
bis(2-Chloroethyl)ether	NL	<33.5	<34.1	<34.6	<35.9	<37.6	<37.2	<35.3	<36.0	<37.5
bis(2-Chloroisopropyl)ether	NL	<40.8	<41.6	<42.1	<43.7	<45.8	<45.3	<43.1	<43.9	<45.7
bis(2-Ethylhexyl)phthalate	435000	<58.6	<59.7	<60.4	<62.7	<65.8	<65.1	<61.8	<63.0	<65.5

Table 1
Soil Sampling Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Sample Name: Sample Depth (feet bgs): Collected Date: Sample Type:	**SOIL CLEANUP CRITERIA[a,b,c]**	63-B04-6 5.5-6 09/26/14 Soil	63-B04-11 10.5-11 09/26/14 Soil	63-B04-11DUP 10.5-11 09/26/14 Soil	63-B03-6 5.5-6 09/26/14 Soil	63-B03-9.5 9-9.5 09/26/14 Soil	63-B02-6 5.5-6 09/26/14 Soil	63-B02-9.5 9-9.5 09/26/14 Soil	63-B01-7.5 7-7.5 09/26/14 Soil	63-B01-9.5 9-9.5 09/26/14 Soil
Analyte										
Volatiles (µg/kg)										
Acetone	50	<7.76	<7.90	<8.37	<7.83	<9.65	<9.72	<8.71	<9.45	<9.92
Carbon Tetrachloride	760	<2.08	<2.12	<2.24	<2.10	<2.59	<2.61	<2.33	<2.53	<2.66
Chloroform	370	<2.32	<2.36	<2.50	<2.34	<2.89	<2.91	<2.61	<2.83	<2.97
Benzene	60	<2.15	<2.19	<2.32	<2.17	<2.67	<2.69	**17.4**	<2.62	**230**
1,1,1-Trichloroethane	680	<2.09	<2.13	<2.26	<2.11	<2.60	<2.62	<2.35	<2.55	<2.68
Bromomethane	NL	<2.31	<2.35	<2.49	<2.33	<2.87	<2.89	<2.59	<2.81	<2.95
Chloromethane	NL	<1.71	<1.74	<1.85	<1.73	<2.13	<2.15	<1.92	<2.09	<2.19
Dibromomethane	NL	<1.84	<1.87	<1.98	<1.86	<2.29	<2.30	<2.06	<2.24	<2.35
Bromochloromethane	NL	<2.28	<2.32	<2.46	<2.30	<2.83	<2.85	<2.55	<2.77	<2.91
Chloroethane	NL	<2.30	<2.34	<2.48	<2.32	<2.86	<2.88	<2.58	<2.80	<2.94
Vinyl Chloride	20	<2.53	<2.57	<2.73	<2.55	<3.15	<3.17	<2.84	<3.08	<3.23
Methylene Chloride	50	**5.73**	**5.71**	**6.12**	**5.59**	**7.57**	**6.96**	**6**	**5.8**	**6.58**
Carbon disulfide	2700	<1.51	**1.54**	<1.62	**1.59**	**2.17**	<1.89	<1.69	<1.83	<1.93
Bromoform	NL	<1.05	<1.06	<1.13	<1.06	<1.30	<1.31	<1.17	<1.27	<1.34
Bromodichloromethane	NL	<1.43	<1.45	<1.54	<1.44	<1.77	<1.79	<1.60	<1.74	<1.82
1,1-Dichloroethane	270	<1.84	<1.87	<1.98	<1.86	<2.29	<2.30	<2.06	<2.24	<2.35
1,1-Dichloroethene	330	<2.17	<2.21	<2.34	<2.19	<2.70	<2.72	<2.44	<2.65	<2.78
Tertiary butyl alcohol	NL	<17.4	<17.7	<18.7	<17.5	<21.6	<21.7	<19.5	<21.1	<22.2
Trichlorofluoromethane	NL	<2.20	<2.23	<2.37	<2.22	<2.73	<2.75	<2.46	<2.67	<2.81
Dichlorodifluoromethane	NL	<1.20	<1.22	<1.29	<1.21	<1.49	<1.50	<1.34	<1.46	<1.53
1,1,2-Trichlorotrifluoroethane	NL	<1.98	<2.01	<2.13	<2.00	<2.46	<2.48	<2.22	<2.41	<2.53
1,2-Dichloropropane	NL	<2.32	<2.36	<2.50	<2.34	<2.89	<2.91	<2.61	<2.83	<2.97
2-Butanone	120	<4.17	<4.25	<4.50	<4.21	<5.19	<5.23	<4.68	<5.08	<5.34
1,1,2-Trichloroethane	NL	<2.20	<2.23	<2.37	<2.22	<2.73	<2.75	<2.46	<2.67	<2.81
Trichloroethene	470	<2.00	<2.04	<2.16	<2.02	<2.49	<2.51	<2.24	<2.44	<2.56
1,1,2,2-Tetrachloroethane	600	<2.29	<2.33	<2.47	<2.31	<2.85	<2.87	<2.57	<2.79	<2.93
1,2,3-Trichlorobenzene	NL	<2.02	<2.06	<2.18	<2.04	<2.52	<2.53	<2.27	<2.46	<2.59
Hexachlorobutadiene	NL	<2.07	<2.11	<2.23	<2.09	<2.57	<2.59	<2.32	<2.52	<2.65
Naphthalene	12000	<1.60	**6.67**	**3.9**	**41.7**	**8.9**	**11.7**	**4820**	<1.95	<2.04
o-xylene	1600	<2.52	<2.56	<2.72	**20**	**4.18**	**190**	**7670**	**39.5**	**1370**
2-Chlorotoluene	NL	<2.66	<2.70	<2.86	<2.68	<3.30	<3.33	<2.98	<3.23	<3.40
1,2-Dichlorobenzene	1100	<2.39	<2.43	<2.58	<2.41	<2.97	<3.00	<2.68	<2.91	<3.06
1,2,4-Trimethylbenzene	3600	<2.51	<2.55	<2.70	**37.7**	**60.7**	**203**	**10900**	**184**	**1610**
1,2,4,5-Tetramethylbenzene	NL	<1.82	<1.85	<1.96	<1.83	**387**	**31.7**	**472**	<2.21	**70.1**
1,2-Dibromo-3-chloropropane	NL	<1.16	<1.18	<1.25	<1.17	<1.44	<1.45	<1.30	<1.41	<1.48
1,2,3-Trichloropropane	340	<2.07	<2.11	<2.23	<2.09	<2.57	<2.59	<2.32	<2.52	<2.65
tert-Butylbenzene	5900	<2.39	<2.43	<2.58	<2.41	<2.97	<3.00	<2.68	<2.91	<3.06
Isopropylbenzene	2300	<2.44	<2.48	<2.63	**45.5**	**200**	**40.1**	**3260**	<2.97	**378**

Table 1
Soil Sampling Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Sample Name: Sample Depth (feet bgs): Collected Date: Sample Type:	SOIL CLEANUP CRITERIA[a,b,c]	63-B04-6 5.5-6 09/26/14 Soil	63-B04-11 10.5-11 09/26/14 Soil	63-B04-11DUP 10.5-11 09/26/14 Soil	63-B03-6 5.5-6 09/26/14 Soil	63-B03-9.5 9-9.5 09/26/14 Soil	63-B02-6 5.5-6 09/26/14 Soil	63-B02-9.5 9-9.5 09/26/14 Soil	63-B01-7.5 7-7.5 09/26/14 Soil	63-B01-9.5 9-9.5 09/26/14 Soil
Analyte										
Volatiles (µg/kg)										
4-Isopropyltoluene	10000	<2.47	<2.52	<2.67	**8.62**	**165**	**20.7**	**2300**	<3.01	**58.1**
Ethylbenzene	1000	<2.04	<2.07	<2.19	**49.3**	**30.7**	**45.6**	**13100**	**68.4**	**2390**
Styrene	1000	<2.08	<2.12	<2.24	<2.10	<2.59	<2.61	<2.33	<2.53	<2.66
n-Propylbenzene	3900	<2.24	<2.28	<2.42	**34.2**	**183**	**10.8**	**7540**	<2.73	**185**
n-Butylbenzene	12000	<2.47	<2.52	<2.67	**16.1**	**84.6**	<3.10	<2.77	<3.01	<3.16
p-Diethylbenzene	NL	<2.28	<2.32	<2.46	**30**	**343**	<2.85	<2.55	<2.77	**37.1**
4-Chlorotoluene	NL	<2.38	<2.42	<2.57	<2.40	<2.96	<2.98	<2.67	<2.90	<3.04
1,4-Dichlorobenzene	1800	<2.44	<2.48	<2.63	<2.46	<3.03	<3.05	<2.73	<2.97	<3.12
1,2-Dibromoethane	NL	<2.15	<2.19	<2.32	<2.17	<2.67	<2.69	<2.41	<2.62	<2.75
1,2-Dichloroethane	20	<2.31	<2.35	<2.49	<2.33	<2.87	<2.89	<2.59	<2.81	<2.95
Acrylonitrile	NL	<4.47	<4.55	<4.82	<4.51	<5.56	<5.60	<5.02	<5.45	<5.72
4-Methyl-2-pentanone	1000	<5.59	<5.69	<6.03	<5.64	<6.95	<7.00	<6.27	<6.80	<7.14
m,p-xylene	1600	<4.81	<4.89	<5.18	**42.7**	**13.9**	**91.1**	**11000**	**78.3**	**2130**
1,3,5-Trimethylbenzene	8400	<2.48	<2.53	<2.68	**20.5**	**10.1**	**171**	**27300**	<3.02	**657**
Bromobenzene	NL	<2.50	<2.54	<2.69	<2.52	<3.10	<3.12	<2.80	<3.04	<3.19
Toluene	700	<2.18	<2.22	<2.36	<2.20	**24.7**	<2.74	**502**	<2.66	**346**
Chlorobenzene	1100	<2.46	<2.50	<2.65	<2.48	<3.06	<3.08	<2.76	<3.00	<3.15
2-Chloroethylvinylether	NL	<3.31	<3.37	<3.57	<3.34	<4.12	<4.15	<3.72	<4.03	<4.23
1,2,4-Trichlorobenzene	3400	<2.14	<2.18	<2.31	<2.16	<2.66	<2.68	<2.40	<2.60	<2.73
Dibromochloromethane	NL	<1.37	<1.39	<1.48	<1.38	<1.70	<1.71	<1.54	<1.67	<1.75
Tetrachloroethene	1300	<2.46	<2.50	<2.65	<2.48	<3.06	<3.08	<2.76	<3.00	<3.15
sec-Butylbenzene	11000	<2.51	<2.55	<2.70	<2.53	**103**	<3.14	<2.81	<3.05	<3.20
1,3-Dichloropropane	300	<2.52	<2.56	<2.72	<2.54	<3.13	<3.15	<2.83	<3.07	<3.22
c-1,2-Dichloroethene	250	<2.13	<2.16	<2.29	<2.15	<2.65	<2.66	<2.39	<2.59	<2.72
t-1,2-Dichloroethene	190	<2.09	<2.13	<2.26	<2.11	<2.60	<2.62	<2.35	<2.55	<2.68
1,3-Dichlorobenzene	2400	<2.33	<2.38	<2.52	<2.35	<2.90	<2.92	<2.62	<2.84	<2.98
1,1-Dichloropropene	NL	<2.01	<2.05	<2.17	<2.03	<2.50	<2.52	<2.26	<2.45	<2.57
2,2-Dichloropropane	NL	<1.99	<2.02	<2.15	<2.01	<2.47	<2.49	<2.23	<2.42	<2.54
2-Hexanone	NL	<3.69	<3.76	<3.98	<3.72	<4.59	<4.62	<4.14	<4.49	<4.72
p-Ethyltoluene	NL	<2.46	<2.50	<2.65	**69.3**	**181**	**303**	<2.76	<3.00	**1780**
1,1,1,2-Tetrachloroethane	NL	<2.14	<2.18	<2.31	<2.16	<2.66	<2.68	<2.40	<2.60	<2.73
TAME	NL	<2.02	<2.06	<2.18	<2.04	<2.52	<2.53	<2.27	<2.46	<2.59
Methyl t-butyl ether	930	<1.98	<2.01	<2.13	<2.00	<2.46	<2.48	<2.22	<2.41	<2.53
c-1,3-Dichloropropene	NL	<2.23	<2.27	<2.41	<2.25	<2.77	<2.79	<2.50	<2.72	<2.85
t-1,3-Dichloropropene	NL	<1.67	<1.70	<1.80	<1.68	<2.07	<2.09	<1.87	<2.03	<2.13

Table 1
Soil Sampling Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Sample Name:	SOIL CLEANUP CRITERIA[a,b,c]	63-B04-6	63-B04-11	63-B04-11DUP	63-B03-6	63-B03-9.5	63-B02-6	63-B02-9.5	63-B01-7.5	63-B01-9.5
Sample Depth (feet bgs):		5.5-6	10.5-11	10.5-11	5.5-6	9-9.5	5.5-6	9-9.5	7-7.5	9-9.5
Collected Date:		09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14	09/26/14
Sample Type:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte										
Solids (%)										
% Solids	NL	**92.9**	**91.1**	**90**	**86.7**	**82.7**	**83.6**	**88**	**86.4**	**83**

[a]Soil Cleanup Criteria for TPH - Dielectric Fluids from ConEdison/EPRI Technical Report Characteristics of Pipe-Type Cable Fluids - Environmental Data Protocol and Comprehensive Test Matrix for Fluid Evaluation, dated January 2003: 7,400 mg/kg for Mineral Oil; 13,000 mg/kg for all cable fluid classes

[b]Soil cleanup criteria for diesel, fuel oil, kerosene, gasoline and JP-4 from 6 NYCRR Part 375 protection of groundwater SCO's are capped at a maximum value of 1000 ppm.

[c]Soil Cleanup Criteria for Semivolatile and Volatile compounds from Table 375-6.8(b): Restricted Use Soil Cleanup Objectives (SCOs) for Protection of Groundwater. Where 375-6.8(b) Restricted Use SCOs are not available, CP-51/Soil Cleanup Guidance Supplemental Soil Cleanup Objectives are used.

mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram
Highlighted cells indicate criteria exceedances.
Bolded text indicates a detected value.

NA - not available
NL - currently no soil cleanup criteria for this compound
bgs - below ground surface

Table 2
Field Blank Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Collected Date:	09/26/14
Sample Type:	Field Blank
Sample Name:	FB-09262014
Analyte	
Petroleum Products (mg/L)	
Gasoline	<0.10
Lubricating Oils	<0.10
Kerosene/Jet Fuel	<0.10
#2 Fuel Oil/Diesel	<0.10
#4 Fuel Oil	<0.10
#6 Fuel Oil	<0.10
THC By Mod 8100	<0.040
Dielectric Fluid Compounds (mg/L)	
Chevron 100	<0.10
Chevron 500	<0.10
Silicon Base TR	<0.10
Low Vis. Cable	<0.10
Sun#2 Base TR.O	<0.10
Sun#4 Cable Oil	<0.10
Sun#6 Cable Oil	<0.10
Sun#8 II Base T	<0.10
10C Transformer	<0.10
Sun C/DCL 100	<0.10
LVP STD	<0.050
Feeder 51	<0.10
Feeder 28242	<0.10
Feeder 38M35	<0.10
Feeder 69M41	<0.10
Feeder 69M43	<0.10
Feeder 18002	<0.10
High Viscosity Polycable	<0.10
Feeder 38R51	<0.10
Feeder 52	<0.10
Feeder 24032	<0.10
Transformer Oil	<0.10
Univolt 60 Transformer Oil	<0.10
Feeder 63	<0.10

Table 2
Field Blank Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Collected Date:	09/26/14
Sample Type:	Field Blank
Sample Name:	FB-09262014
Analyte	
Semivolatile Compounds (µg/L)	
1,2,4-Trichlorobenzene	<0.64
1,2-Dichlorobenzene	<0.65
1,2-Diphenylhydrazine	<1.02
1,3-Dichlorobenzene	<0.68
1,4-Dichlorobenzene	<0.73
2,3,4,6-Tetrachlorophenol	<0.72
2,4,5-Trichlorophenol	<0.52
2,4,6-Trichlorophenol	<0.84
2,4-Dichlorophenol	<0.72
2,4-Dimethylphenol	<0.90
2,4-Dinitrophenol	<1.61
2,4-Dinitrotoluene	<0.75
2,6-Dinitrotoluene	<0.99
2-Chloronaphthalene	<0.80
2-Chlorophenol	<0.64
2-Methylnaphthalene	<0.74
2-Methylphenol	<0.46
2-Nitroaniline	<0.49
2-Nitrophenol	<0.62
3+4-Methylphenol	<0.31
3,3'-Dichlorobenzidine	<1.33
3-Nitroaniline	<0.34
4,6-Dinitro-2-methylphenol	<0.47
4-Bromophenyl phenyl ether	<1.01
4-Chloro-3-methylphenol	<0.73
4-Chloroaniline	<0.42
4-Chlorophenyl phenyl ether	<0.86
4-Nitroaniline	<0.52
4-Nitrophenol	<1.61
Acenaphthene	<0.77
Acenaphthylene	<0.74
Aniline	<0.46
Anthracene	<0.88
Benzidine	<48.2
Benzo(a)anthracene	<0.96
Benzo(a)pyrene	<0.82
Benzo(b)fluoranthene	<0.85

Table 2
Field Blank Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Collected Date:	09/26/14
Sample Type:	Field Blank
Sample Name:	FB-09262014
Analyte	
Semivolatile Organic Compounds (µg/L)	
Benzo(g,h,i)perylene	<0.85
Benzo(k)fluoranthene	<1.00
Benzoic acid	<10.0
Benzyl alcohol	<0.41
Butyl benzyl phthalate	<1.06
Carbazole	<1.99
Chrysene	<1.00
Cresols	<0.77
Di-n-butyl phthalate	<1.08
Di-n-octyl phthalate	<1.28
Dibenz(a,h)anthracene	<1.00
Dibenzofuran	<0.62
Diethyl phthalate	<1.00
Dimethyl phthalate	<0.78
Fluoranthene	<0.96
Fluorene	<0.82
Hexachlorobenzene	<0.86
Hexachlorobutadiene	<0.78
Hexachlorocyclopentadiene	<0.21
Hexachloroethane	<0.69
Indeno(1,2,3-cd)pyrene	<0.90
Isophorone	<0.69
N-Nitrosodi-n-propylamine	<0.57
N-Nitrosodimethylamine	<0.24
N-Nitrosodiphenylamine	<1.09
Naphthalene	<0.78
Nitrobenzene	<0.71
Pentachlorophenol	<0.65
Phenanthrene	<0.95
Phenol	<0.33
Pyrene	<0.85
Pyridine	<0.37
bis(2-Chloroethoxy)methane	<0.70
bis(2-Chloroethyl)ether	<0.57
bis(2-Chloroisopropyl)ether	<0.74
bis(2-Ethylhexyl)phthalate	<1.26

Table 2
Field Blank Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Collected Date:	09/26/14
Sample Type:	Field Blank
Sample Name:	FB-09262014
Analyte	
Volatile Organic Compounds (µg/L)	
Acetone	<1.18
Carbon Tetrachloride	<0.28
Chloroform	<0.31
Benzene	<0.30
1,1,1-Trichloroethane	<0.34
Bromomethane	<0.34
Chloromethane	<0.50
Dibromomethane	<0.37
Bromochloromethane	<0.28
Chloroethane	<0.86
Vinyl Chloride	<0.71
Methylene Chloride	3.95
Carbon disulfide	<0.34
Bromoform	<0.22
Bromodichloromethane	<0.23
1,1-Dichloroethane	<0.27
1,1-Dichloroethene	<0.28
Tertiary butyl alcohol	<5.68
Trichlorofluoromethane	<0.38
Dichlorodifluoromethane	<0.37
1,1,2-Trichlorotrifluoroethane	<0.58
1,2-Dichloropropane	<0.36
2-Butanone	<1.37
1,1,2-Trichloroethane	<0.28
Trichloroethene	<0.18
1,1,2,2-Tetrachloroethane	<0.25
1,2,3-Trichlorobenzene	<0.38
Hexachlorobutadiene	<0.32
Naphthalene	<0.12
o-xylene	<0.32
2-Chlorotoluene	<0.26
1,2-Dichlorobenzene	<0.15
1,2,4-Trimethylbenzene	<0.23
1,2,4,5-Tetramethylbenzene	<0.22
1,2-Dibromo-3-chloropropane	<0.55
1,2,3-Trichloropropane	<0.21
tert-Butylbenzene	<0.24
Isopropylbenzene	<0.29
4-Isopropyltoluene	<0.29
Ethylbenzene	<0.27
Styrene	<0.20
n-Propylbenzene	<0.25
n-Butylbenzene	<0.34

Table 2
Field Blank Results
Con Edison Site 63
Wythe Avenue and North 13th Street, Brooklyn, New York

Collected Date:	09/26/14
Sample Type:	Field Blank
Sample Name:	FB-09262014
Analyte	
Volatile Organic Compounds (µg/L)	
p-Diethylbenzene	<0.25
4-Chlorotoluene	<0.26
1,4-Dichlorobenzene	<0.27
1,2-Dibromoethane	<0.23
1,2-Dichloroethane	<0.30
Acrylonitrile	<1.97
4-Methyl-2-pentanone	<3.94
m,p-xylene	<0.74
1,3,5-Trimethylbenzene	<0.20
Bromobenzene	<0.28
Toluene	<0.34
Chlorobenzene	<0.24
2-Chloroethylvinylether	<1.15
1,2,4-Trichlorobenzene	<0.23
Dibromochloromethane	<0.21
Tetrachloroethene	<0.46
sec-Butylbenzene	<0.23
1,3-Dichloropropane	<0.39
c-1,2-Dichloroethene	<0.24
t-1,2-Dichloroethene	<0.42
1,3-Dichlorobenzene	<0.26
1,1-Dichloropropene	<0.47
2,2-Dichloropropane	<0.35
2-Hexanone	<2.54
p-Ethyltoluene	<0.31
1,1,1,2-Tetrachloroethane	<0.22
TAME	<0.27
Methyl t-butyl ether	<0.17
c-1,3-Dichloropropene	<0.33
t-1,3-Dichloropropene	<0.26

mg/L - milligrams per liter
ug/L - micrograms per liter