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BY AIRBORNE EXPRESS

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Mr. Anthony Karwiel
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Subject: Farrington Street Former Gas Holder Site - Flushing, New York Soil Gas Investigation Report

Dear Mr. Karwiel:

This letter summarizes the soil gas investigation conducted at the Farrington Street Former Gasholder Site located in Flushing, New York. As you know, the purpose of the soil vapor investigation was to determine what measures, if any, would need to be taken to prevent potential future exposures to volatile organic compounds (VOCs) in the subsurface as a result of vapor intrusion in a proposed on-site building. However, Consolidated Edison Company of New York, Inc. (Con Edison) has recently cancelled plans for construction of the proposed on-site building.

Provided below is the project background, followed by a description of the soil gas sampling activities, a discussion of the sampling results, and conclusions.

1.0 Project Background

Con Edison had previously planned to implement an improvement and upgrade project for its Farrington Street flush truck facility (Site) located in Flushing, Queens County, New York (Figure 1). The project would have included construction of a new central collection facility (CCF) slab-on-grade building.

Between 1924 and 1976, a three million cubic foot waterless gasholder and related equipment and structures occupied the Site. The holder was initially associated with a manufactured gas plant (MGP) that Con Edison and its predecessor, the New York & Queens Gas Company (NY&QGC), operated on the property located to the west of the Site. After the MGP was retired in 1944, the holder on the Site was used for storage of gas that was produced at other Con Edison plants or purchased from other utilities.

In anticipation of the construction activities associated with the flush truck facility upgrade project, a Preliminary Site Assessment (PSA) was conducted to characterize and identify subsurface conditions at the Site that could pose a potential risk to the health and safety of Site workers and the public during those activities. The PSA identified former gasholder-related structures (tar pumps, skimmer pumps, piping and tanks) and several

areas within and outside of the proposed CCF building footprint that contained MGP-impacted soils.

To address the former MGP structures and impacted soils prior to construction of the new building at the site, an Interim Remedial Measures (IRM) Work Plan (Parsons, 2002) was developed and approved by the New York State Department of Environmental Conservation (NYSDEC). The intent of the IRM was to remove impacted soil and several below-ground structures and associated piping. Excavation was generally limited to depths above the water table or approximately 14 feet below ground surface (bgs). During the IRM, which was conducted between November 2002 and March 2003, approximately 6,355 tons of soil and debris were excavated and removed from the site. The results of the IRM were compiled in the IRM Report (Parsons, 2004).

As documented in the IRM Report, impacted materials were observed during the IRM excavation activities at depths below the groundwater table. In accordance with the IRM Work Plan, materials below the groundwater table were not addressed as part of the IRM. Since a building was proposed for construction in the area of the former gasholder, and given the levels of VOCs detected in certain post-excavation soil samples collected during the IRM, the NYSDEC requested the collection and analysis of soil vapor (letter dated December 1, 2004 to Con Edison). The purpose of the soil vapor investigation was to determine what measures, if any, may need to be considered for the design and or construction of the planned building to prevent potential future exposures to VOCs in the soil gas as a result of vapor intrusion into the proposed building or during building construction.

The soil gas investigation was conducted in May 2006 in accordance with the NYSDEC- and New York State Department of Health (NYSDOH)-approved Soil Gas Investigation Work Plan (Parsons, April 2006). This report documents the soil gas investigation activities and results.

2.0 Soil Gas Sampling Activities

Soil gas and ambient air sampling was performed in accordance with the NYSDOH Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York (February 2005) and the NYSDEC and NYSDOH-approved Soil Gas Investigation Work Plan (Parsons, April 2006). Soil gas samples were collected from nine locations (SG-1 through SG-9) within the footprint of the formerly proposed building and five locations (SG-10 through SG-14) along the site perimeter as shown on Figure 2. Two soil gas samples were collected from each location at depths of 3 and 8 feet bgs. These depths were chosen to: 1) provide at least 3 feet of distance between the ground surface and sampling depth to allow for proper sealing of the borehole and prevent outdoor air infiltration; and 2) provide data representative of soil gas at multiple depths from beneath the formerly proposed concrete slab floor of the building to the expected depth of the deepest foundation structures (i.e., the proposed sedimentation and collection basins within the on-site building footprint).

Soil gas samples were collected using a probe/sampling assembly comprised of stainless steel tubing fitted with an expendable steel probe point. Prior to soil gas sampling, the sampling probe was driven via a direct push method to the desired sampling

depth. The expendable point was released into the soil and the sampler was withdrawn approximately 0.5 feet to create a void space. The space between the probing rod and the surrounding soil column was filled with granular bentonite, which was then hydrated to form an airtight seal to prevent aboveground ambient air from influencing the quality of a subsurface soil gas sample. A minimum of one implant volume (the volume of the sample probe and tube) was purged prior to sample collection.

A tracer gas (helium) was utilized in the field to verify the integrity of the soil vapor probe seal prior to sample collection at select locations (both depth intervals at SG-2, SG-6, SG-9, and SG-12). An enclosure (plastic pail or garbage bag) was placed over the location where the probe intersected the ground and the atmosphere within the enclosure was enriched with helium gas. After the atmosphere within the enclosure had been enriched, a vapor sample from the probe was screened with a model MGD-2002 Multi-Gas Leak Locator, with a sensitivity of 25 ppm (or 0.0025%) to ensure the presence of the tracer gas was less than 20%. Helium was not detected in the probe at any of the select locations where a tracer gas was utilized.

Six-liter Summa canisters with flow regulators were used to collect soil gas and ambient air samples. A vacuum gauge was used to check both the initial and final vacuum in the canisters. Flow rates for both purging and sample collection did not exceed 0.2 liters per minute. Soil gas and ambient air samples were submitted to an ELAP-certified laboratory for analysis of VOCs by EPA Method TO-15 Low Level with extended analyte list.

Ambient air samples were collected each day of soil gas sampling activities over an approximate 8-hour period at both the upwind and downwind perimeter of the site. Due to the number of soil gas samples collected and difficulties associated with collecting all or several of the samples simultaneously, 8-hour samples were determined to be more representative of ambient air conditions during the sampling program rather than the one-hour ambient air samples proposed in the work plan. This modification was made in the field in consultation with the NYSDEC and NYSDOH.

3.0 Soil Gas Investigation Results

Volatile organic compounds that were detected at least once in soil gas or ambient air samples are summarized in Table 1. The analytical results generally show that VOC concentrations in the shallow soil gas samples (i.e., from three feet below grade) are significantly lower than those in the corresponding deep sample (i.e., from eight feet below grade) at each location. This relationship of soil gas quality between shallow and deep soil horizons generally holds true even when concentrations in the deep sample were elevated. Where this relationship was not observed, soil gas concentrations detected in the deep and shallow samples were either consistent or low. Since helium was not detected in the probe at any of the select sample locations, it is concluded that the shallow sample points were properly sealed. As a result, the seal was effective in preventing the artificial dilution due to entrainment of ambient air from above ground surface into the shallow soil gas samples.

The analytical data indicate that a total of 56 VOCs were detected. The detected compounds are characterized into three general categories: chlorinated VOCs (CVOCs), non-MGP related compounds, and possibly MGP related compounds. Each of these categories is discussed below.

Chlorinated VOCs (CVOCs)

Trichloroethene and tetrachloroethene were the most frequently detected CVOCs in soil gas samples and were present in samples at elevated concentrations located sporadically throughout the Site (Figure 2). Where present, the highest concentrations of these compounds were detected in the deep soil gas samples. Other CVOCs detected in soil gas samples at elevated concentrations include Freon-11, Freon-12, methylene chloride, 1,2-dichloroethene, and 1,1,1-trichloroethane. Elevated CVOC concentrations have also been noted during past groundwater monitoring events at the Site. Given that chlorinated solvents are not typical MGP-related compounds; data suggests that these compounds may be originating from a potential off-site source located north/northwest of the site.

Non-MGP Related Compounds

Eight VOCs that are considered both non-MGP related and non-chlorinated were detected in soil gas samples. These include 1,3-butadiene, 2-butanone (MEK), 2-hexanone, 2-propanol, 4-methyl-2-pentanone, acetone, ethanol, and methyl tert-butyl ether (MTBE). Of these eight compounds, the most frequently detected at elevated concentrations in soil gas samples were acetone and ethanol.

Possibly MGP Related Compounds

The compounds that are possibly related to MGP residues and which were most frequently detected in the soil gas samples include benzene, toluene, ethylbenzene, and xylenes (BTEX). With the exception of the deep soil gas samples collected at locations SG-1 and SG-2, total BTEX concentrations were generally low to moderate in the remaining soil gas samples, including the shallow 3-foot samples collected from locations SG-1 and SG-2 (Figure 2). Other MGP-related compounds detected at elevated concentrations in soil gas samples include 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-ethyltoluene, isopentane, indan, and indene.

A total of 23 compounds, including CVOCs and both MGP related and non-MGP related compounds were detected in the ambient air samples collected during the soil gas sampling activities. However, no correlation between ambient air and soil gas concentrations is evident. Eight of the 23 VOCs were detected at low to high concentrations in at least five of the six ambient air samples. An analytical Data Usability Summary Report is provided as an attachment to this letter.

4.0 Conclusions

Given the consistent and significant decreases in VOC concentrations in soil gas samples collected between the 8-foot and 3-foot depths, it is concluded that the potential for migration of elevated VOC concentrations from soil gas to indoor air would be low. The detected decreases in concentrations are likely due to attenuation through dilution with relatively unaffected soil gas in the upper soil horizons and biodegradation as the VOCs migrate up through the soil column.

As noted above, chlorinated compounds are not associated with MGP operations and historical groundwater data from the Site indicates a potential off-site source for the chlorinated compounds. The off-site source of CVOCs in groundwater migrating onto Con Edison's property is not known. Groundwater conditions at the Site including CVOC concentrations in groundwater continue to be monitored as part of the post-IRM groundwater monitoring program.

Due to a shift in priority and funding, Con Edison currently has no plans to construct a building at this site in the foreseeable future. However, soil gas quality would be considered in the event building construction again becomes an option for redevelopment at this site.

Please feel free to contact me at (718) 204-4145 if you have any questions or comments.

Very truly yours,

Neil O'Halloran/MAW

Neil O'Halloran
Project Manager
Remediation
Environment, Health and Safety

Enc.

cc: Ms. Jane O'Connell, NYSDEC-Region 2 – w/o enc.
Nathan Walz, NYSDOH

TABLE

Table 1
Validated Soil Gas Analytical Data
Detected Compound Summary

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data Detected Compound Summary		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	Ambient-1d 0605473AR1-05A NA ATL 0605473AR1 AIR 5/15/2006 7/21/2006	Ambient-1u 0605473AR1-04A NA ATL 0605473AR1 AIR 5/15/2006 7/21/2006	Ambient-2d 0605473AR1-14A NA ATL 0605473AR1 AIR 5/16/2006 7/21/2006	Ambient-2u 0605473AR1-13A NA ATL 0605473AR1 AIR 5/16/2006 7/21/2006	Ambient -3d 0605509R1-20A NA ATL 0605509R1 AIR 5/17/2006 7/21/2006	Ambient-3u 0605509R1-19A NA ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-1 (3') 0605473AR1-06A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG-1 (8') 0605473BR1-07A 8' ATL 0605473BR1 AIR 5/16/2006 7/21/2006	SG-2 (3') 0605509R1-04A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-2 (8') 0605509R1-03A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG3 (3') 0605473AR1-10A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG3 (8') 0605473AR1-11A 8' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG4 (3') 0605473AR1-12A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG-4 (8') 0605473AR1-03A 8' ATL 0605473AR1 AIR 5/15/2006 7/21/2006	SG-5 (3') 0605473AR1-01A 3' ATL 0605473AR1 AIR 5/15/2006 7/21/2006	SG-5 (8') 0605473AR1-02A 8' ATL 0605473AR1 AIR 5/15/2006 7/21/2006	SG-6 (3') 0605509R1-17A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-6 (8') 0605509R1-18A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:																						
	VOLATILES																							
Chlorinated Compounds																								
71-55-6	1,1,1-Trichloroethane	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	2.2	3.2	3.7	1.2 J	4.9 J	ND	ND
75-34-3	1,1-Dichloroethane	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4 J
75-35-4	1,1-Dichloroethene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-93-4	1,2-Dibromoethane (EDB)	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-50-1	1,2-Dichlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-44-7	alpha-Chlorotoluene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8 J	ND	ND	ND	ND	ND
74-83-9	Bromomethane	ug/m³	ND	ND	ND	1.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56-23-5	Carbon Tetrachloride	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-00-3	Chloroethane	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36 J	2.2 J	ND	ND
67-66-3	Chloroform	ug/m³	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND	ND	21	110	4.1	3.8	1.8 J	ND	ND	5 J
74-87-3	Chloromethane	ug/m³	1.5	1.7 J	1.2 J	2.6 J	1.2 J	1.1 J	1.9 J	ND	2 J	6.5 J	1	1.8	ND	ND	1.5 J	ND	ND	2.5 J
156-59-2	cis-1,2-Dichloroethene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	3.9 J
75-69-4	Freon 11	ug/m³	1.7	ND	ND	ND	1.9 J	2.1 J	2.3 J	ND	2.4 J	ND	9	17	13	15	6.3 J	41 J	3.3 J	7.8 J
76-14-2	Freon 114	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-71-8	Freon 12	ug/m³	3.2	ND	2.6 J	2.5 J	3 J	2.8 J	21 J	ND	3.1 J	220 J	38	66	130	190	36 J	670 J	19 J	94 J
87-68-3	Hexachlorobutadiene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	ug/m³	ND	ND	ND	19 J	1.1 J	2.8 J	13 J	1100	4.2 J	ND	1.2	ND	ND	ND	1.9 J	ND	3.7 J	ND
127-18-4	Tetrachloroethene	ug/m³	2.5	ND	ND	ND	ND	1.8 J	9.8 J	2400	ND	26 J	28	48	520	750	35 J	930 J	220 J	1900 J
79-01-6	Trichloroethene	ug/m³	14	ND	ND	ND	ND	ND	2.8 J	3100	ND	19 J	ND	ND	91	110	1.8 J	15 J	ND	34 J
75-01-4	Vinyl Chloride	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J
	Total Chlorinated Compounds		22.9	1.7	3.8	25.7	7.2	10.6	51.45	6600	11.7	271.5	99.4	245	772.8	1072.5	85.86	1663.1	246	2053.9
Non-MGP Related Compounds																				
106-99-0	1,3-Butadiene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	29	ND	ND	13 J	11 J	ND	25 J
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ug/m³	ND	ND	20 J	7.8 J	2.7 J	ND	3.1 J	ND	110 J	280 J	15	31	6.3	12	34 J	19 J	15 J	53 J
591-78-6	2-Hexanone	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	16 J	ND	ND	ND	ND	ND	3.7 J	ND	ND	ND
67-63-0	2-Propanol	ug/m³	ND	ND	3.9 J	ND	2.4 J	ND	2.8 J	ND	32 J	ND	33	3.6	ND	ND	6 J	ND	6.1 J	ND
108-10-1	4-Methyl-2-pentanone	ug/m³	ND	ND	16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
67-64-1	Acetone	ug/m³	23	26 J	97 J	29 J	18 J	12 J	23 J	ND	460 J	1600 J	73	110	35	52	130 J	90 J	68 J	210 J
64-17-5	Ethanol	ug/m³	5.7	90 J	2.8 J	110 J	17 J	13 J	93 J	ND	60 J	30 J	14	15	ND	ND	6.6 J	46 J	14 J	12 J
1634-04-4	Methyl tert-butyl ether	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total Non-MGP Related Compounds		28.7	116	139.7	146.8	40.1	25	121.9	0	678	1910	137.3	188.6	41.3	64	193.3	166	103.1	300
Possibly MGP Related Compounds(5)																				
95-63-6	1,2,4-Trimethylbenzene	ug/m³	1.2	ND	1.6 J	6.4 J	1.3 J	1.2 J	4.2 J	14000	7.2 J	190 J	1.5	1.4	ND	ND	4.7 J	17 J	2.5 J	25 J
108-67-8	1,3,5-Trimethylbenzene	ug/m³	ND	ND	ND	2.3 J	ND	ND	1.7 J	6900	2.8 J	76 J	ND	ND	ND	ND	1.3 J	5.8 J	ND	14 J
107-83-5	2-Methylpentane	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	32 J	ND	9.1	ND	ND	ND	ND	ND	ND
622-96-8	4-Ethyltoluene	ug/m³	ND	ND	ND	ND	ND	ND	5.2 J	17000	ND	140 J	ND	ND	ND	ND	3.5 J	ND	ND	ND
71-43-2	Benzene	ug/m³	1.4	2.5 J	2.1 J	2.2 J	1.8 J	1.4 J	1.8 J	7400	3.6 J	26 J	2	15	1.1	3.9	5.3 J	8.7 J	2.8 J	19 J
75-15-0	Carbon Disulfide	ug/m³	15	ND	ND	65 J	ND	ND	ND	ND	19 J	61 J	3.5	5	ND	ND	13 J	9.7 J	21 J	22 J
98-82-8	Cumene	ug/m³	ND	ND	ND	ND	ND	ND	ND	4200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	ug/m³	ND	ND	ND	ND	ND	ND	ND	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	ug/m³	ND	ND	ND	ND	1.1 J	1.1 J	0.91 J	180000	2.8 J	710 J	2.2	3.4	ND	ND	5.9 J	4 J	7.3 J	6.7 J
142-82-5	Heptane	ug/m³	ND	ND	ND	ND	ND	ND	ND	1900	ND	50 J	ND	8.5	ND	ND	4.3 J	ND	ND	ND
110-54-3	Hexane	ug/m³	ND	29 J	ND	8.2 J	ND	ND	5.6 J	ND	ND	60 J	ND	20	ND	ND	6.3 J	ND	ND	17 J
496-11-7	Indan	ug/m³	ND	ND	ND	ND	ND	ND	ND	7800	ND	490 J	ND	ND	ND	ND	ND	ND	ND	ND
95-13-6	Indene	ug/m³	ND	ND	ND	ND	ND	ND	ND	6800	ND	220 J	ND	ND	ND	ND	ND	ND	ND	ND
78-78-4	Isopentane	ug/m³	ND	ND	ND	10 J	14 J	9.8 J	6 J	ND	10 J	110 J	4.8	48	ND	ND	9.3 J	12 J	320 J	30 J
108-38-3/106-42-3	m,p-Xylene	ug/m³	2.2	ND	2.6 J	3.8 J	3.4 J	3.1 J	2.4 J	140000	9.5 J	480 J	4.2	5.5	ND	3	21 J	15 J	8.4 J	18 J
91-20-3	Naphthalene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	1300 J	ND	ND	ND	ND	4.6 J	ND	ND	ND
95-47-6	o-Xylene	ug/m³	ND	ND	ND	1.9 J	1.1 J	1 J	1.2 J	57000	3.8 J	380 J	2.1	2.9	ND	1.8	10 J	8.3 J	3.2 J	11 J
103-65-1	Propylbenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	2600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-42-5	Styrene	ug/m³	ND	ND	ND	4.1 J	ND	ND	0.83 J	ND	ND	ND	0.74	2.5	ND	ND	ND	3.5 J	3.6 J	4.2 J
108-88-3	Toluene	ug/m³	4.1	11 J	5.6 J	20 J	7.5 J	8.5 J	17 J	34000	12 J	29 J	5.7	15	1.1	3.8	10 J	8.5 J	26 J	18 J
	Total BTEX		7.7	13.5	10.3	27.9	14.9	15.1	23.31	438400	31.7	1625	16.2	41.8	2.2	12.5	52.2	44.5	47.7	72.7
	Total Possibly MGP Related Compounds		23.9	42.5	11.9	123.9	30.2	26.1	46.84	500080	70.7	4354	26.74	136.3	2.2	12.5	99.2	92.5	394.8	184.9

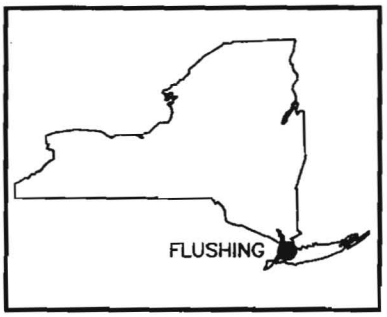
Notes:
(1) NA - not available
(2) ND indicates compound was not detected
(3) J indicates an estimated concentration
(4) R indicates rejected data
(5) These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources may include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, construction materials, vehicle exhaust, and cigarette smoke.

Table 1
Validated Soil Gas Analytical Data
Detected Compound Summary

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data Detected Compound Summary		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SG-7 (3') 0605509R1-11A 3' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-7 (8') 0605509R1-12A 8' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-8 (3') 0605509R1-13A 3' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-8 (8') 0605509R1-14A 8' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-9 (3') 0605509R1-15A 3' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-9 (8') 0605509R1-16A 8' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-10 (3') 0605509R1-06A 3' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-10 (8') 0605509R1-05A 8' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-11 (3') 0605509R1-08A 3' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-11 (8') 0605509R1-07A 8' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-12 (3') 0605509R1-02A 3' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-12 (8') 0605509R1-01A 8' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-13 (3') 0605509R1-10A 3' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-13 (8') 0605509R1-09A 8' ATL 0605509R1 AIR 5-17-2006 7-21-2006	SG-14 (3') 0605473AR1-08A 3' ATL 0605473AR1 AIR 5-16-2006 7-21-2006	SG-14 (8') 0605473AR1-09A 8' ATL 0605473AR1 AIR 5-16-2006 7-21-2006
CAS NO.	COMPOUND	UNITS:																				
	VOLATILES																					
Chlorinated Compounds																						
71-55-6	1,1,1-Trichloroethane	ug/m³	ND	2.7 J	ND	5.4 J	ND	ND	ND	6.1 J	ND	15 J	4 J	18 J	310 J	360 J	6 J	14 J
75-34-3	1,1-Dichloroethane	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	6.7 J	ND	ND
75-35-4	1,1-Dichloroethene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1 J	ND	ND
120-82-1	1,2,4-Trichlorobenzene	ug/m³	R	R	R	ND	ND	ND	ND	ND	ND	ND	R	R	140 J	ND	ND	ND
106-93-4	1,2-Dibromoethane (EDB)	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.4 J	ND	ND	ND
95-50-1	1,2-Dichlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30 J	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21 J	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23 J	ND	ND	ND
100-44-7	alpha-Chlorotoluene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74-83-9	Bromomethane	ug/m³	ND	ND	ND	ND	ND	ND	3.5 J	3.5 J	ND	1.8 J	ND	ND	ND	ND	ND	ND
56-23-5	Carbon Tetrachloride	ug/m³	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND	2.9 J	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2 J	ND	ND	ND
75-00-3	Chloroethane	ug/m³	ND	ND	ND	ND	ND	2.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
67-66-3	Chloroform	ug/m³	1.1 J	ND	ND	6.9 J	0.96 J	ND	ND	ND	ND	ND	9.3 J	ND	11 J	7.5 J	1 J	ND
74-87-3	Chloromethane	ug/m³	ND	ND	ND	1.2 J	0.35 J	ND	ND	ND	1.9 J	ND	0.99 J	ND	1.7 J	3.1 J	0.9 J	ND
156-59-2	cis-1,2-Dichloroethene	ug/m³	ND	ND	ND	3.4 J	ND	200 J	ND	3.2 J	ND	ND	ND	ND	100 J	22 J	0.78 J	ND
75-69-4	Freon 11	ug/m³	3.5 J	5.6 J	ND	4.9 J	1.8 J	ND	2.3 J	2.3 J	2.2 J	4.3 J	5.2 J	33 J	8.2 J	7.3 J	60 J	44 J
76-14-2	Freon 114	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7 J	5.2 J
75-71-8	Freon 12	ug/m³	18 J	50 J	3.7 J	7.7 J	3.6 J	18 J	2.9 J	3.9 J	3 J	3.2 J	11 J	88 J	69 J	38 J	32 J	38 J
87-68-3	Hexachlorobutadiene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	76 J	ND	ND	ND
75-09-2	Methylene Chloride	ug/m³	ND	ND	ND	ND	ND	ND	3.4 J	2.7 J	2.7 J	7.4 J	2.9 J	ND	ND	ND	1.7 J	ND
127-18-4	Tetrachloroethene	ug/m³	320 J	760 J	56 J	970 J	130 J	2400 J	17 J	250 J	16 J	580 J	6.9 J	22 J	1900 J	1300 J	300 J	490 J
79-01-6	Trichloroethene	ug/m³	ND	ND	ND	12 J	ND	63 J	ND	5.2 J	ND	7.2 J	ND	ND	110 J	26 J	1.7 J	ND
75-01-4	Vinyl Chloride	ug/m³	ND	ND	ND	ND	ND	8.3 J	ND	2.2 J	ND	ND	ND	ND	ND	ND	ND	ND
	Total Chlorinated Compounds		342.6	818.3	59.7	1011.5	136.71	2692.1	29.1	280.5	11.4	618.9	43.19	161	2814.5	1772.7	407.78	591.2
Non-MGP Related Compounds																		
106-99-0	1,3-Butadiene	ug/m³	9.6 J	6.1 J	ND	19 J	3.7 J	ND	3.6 J	ND	ND	14 J	1.6 J	ND	ND	49 J	ND	22 J
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ug/m³	22 J	15 J	10 J	21 J	9.6 J	ND	4.7 J	8.8 J	4.1 J	33 J	92 J	5.5 J	21 J	40 J	7 J	27 J
591-78-6	2-Hexanone	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11 J	ND	ND	ND	ND	ND
67-63-0	2-Propanol	ug/m³	ND	ND	12 J	ND	3.1 J	ND	3 J	4.8 J	2.2 J	6.5 J	9.4 J	ND	10 J	ND	ND	4.6 J
108-10-1	4-Methyl-2-pentanone	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1 J	ND	ND	ND	ND	ND
67-64-1	Acetone	ug/m³	91 J	88 J	53 J	90 J	48 J	58 J	26 J	49 J	21 J	140 J	750 J	38 J	76 J	120 J	27 J	120 J
64-17-5	Ethanol	ug/m³	6.1 J	6.1 J	55 J	14 J	4.6 J	17 J	11 J	18 J	13 J	12 J	50 J	13 J	26 J	14 J	ND	19 J
1634-04-4	Methyl tert-butyl ether	ug/m³	ND	ND	ND	ND	ND	22 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total Non-MGP Related Compounds		128.7	115.2	130	144	69	97	48.3	80.6	40.3	205.5	920.1	56.5	133	223	34	192.6
Possibly MGP Related Compounds[5]																		
95-63-6	1,2,4-Trimethylbenzene	ug/m³	1.1 J	5.2 J	2.7 J	2.1 J	0.87 J	ND	1.7 J	5.2 J	3.4 J	2 J	6.7 J	ND	53 J	48 J	3.3 J	1.6 J
108-67-8	1,3,5-Trimethylbenzene	ug/m³	ND	2.4 J	ND	ND	ND	ND	ND	1.7 J	1 J	ND	2.1 J	ND	33 J	28 J	ND	ND
107-83-5	2-Methylpentane	ug/m³	ND	ND	ND	ND	ND	ND	5.2 J	5.3 J	ND	16 J	ND	ND	ND	14 J	ND	20 J
622-96-8	4-Ethyltoluene	ug/m³	ND	ND	ND	ND	ND	ND	ND	4.6 J	ND	ND	4 J	ND	36 J	30 J	ND	ND
71-43-2	Benzene	ug/m³	5.8 J	5.9 J	2.5 J	26 J	2.9 J	8.3 J	2.9 J	3.7 J	2.7 J	16 J	2.3 J	0.98 J	8.5 J	24 J	1.7 J	9.6 J
75-15-0	Carbon Disulfide	ug/m³	17 J	12 J	ND	11 J	100 J	ND	19 J	4.3 J	ND	12 J	3.5 J	ND	26 J	25 J	ND	19 J
98-82-8	Cumene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4 J	ND	ND
100-41-4	Ethyl Benzene	ug/m³	1.3 J	7.3 J	7.3 J	5.2 J	0.92 J	ND	1.7 J	5.2 J	3.4 J	26 J	2.6 J	1.1 J	6 J	8.3 J	3 J	4.2 J
142-82-5	Heptane	ug/m³	3.7 J	ND	ND	ND	ND	ND	4.9 J	5 J	ND	15 J	4.8 J	ND	ND	14 J	ND	16 J
110-54-3	Hexane	ug/m³	5.4 J	ND	14 J	10 J	3.1 J	ND	8.6 J	11 J	ND	43 J	5 J	ND	ND	33 J	ND	35 J
496-11-7	Indan	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16 J	ND	ND
95-13-6	Indene	ug/m³	ND	ND	ND	ND	10 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78-78-4	Isopentane	ug/m³	11 J	ND	470 J	73 J	9.1 J	71 J	41 J	110 J	7 J	82 J	19 J	4.5 J	150 J	59 J	3.8 J	78 J
108-38-3/106-42-3	m,p-Xylene	ug/m³	3.1 J	14 J	9.5 J	12 J	1.9 J	ND	4.6 J	10 J	10 J	86 J	8 J	ND	19 J	15 J	7.8 J	4.9 J
91-20-3	Naphthalene	ug/m³	R	21 J	R	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND
95-47-6	o-Xylene	ug/m³	0.93 J	7.2 J	3.5 J	6.3 J	0.86 J	ND	1.7 J	3.9 J	4 J	38 J	4 J	ND	17 J	14 J	2.7 J	2.3 J
103-65-1	Propylbenzene	ug/m³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-42-5	Styrene	ug/m³	0.83 J	ND	4.8 J	9.9 J	2.9 J	ND	ND	1.4 J	ND	ND	0.99 J	ND	6.3 J	13 J	ND	2.2 J
108-88-3	Toluene	ug/m³	6.2 J	4.4 J	61 J	26 J	2.9 J	12 J	12 J	20 J	10 J	14 J	13 J	2.1 J	30 J	17 J	6.4 J	12 J
	Total BTEX		17.33	38.8	83.8	75.5	9.48	20.3	22.9	42.8	30.1	180	29.9	4.18	80.5	78.3	21.6	33
	Total Possibly MGP Related Compounds		56.36	79.4	575.3	181.5	135.45	91.3	103.3	191.3	41.5	350	75.99	8.68	384.8	366.7	28.7	204.8

Notes:
(1) NA - not available
(2) ND indicates compound was not detected
(3) J indicates an estimated concentration
(4) R indicates rejected data
(5) These compounds may be related to either MGP sources or non-MGP sources, or
Non-MGP sources include cleaning products, floor wax and polish, construction mater

FIGURES



QUADRANGLE LOCATION
NEW YORK

N

FIGURE 1

CONSOLIDATED EDISON COMPANY OF NEW YORK
FARRINGTON STREET SITE

SITE LOCATION MAP

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

	3'	8'
TOTAL BTEX	22	33
TOTAL CVOC	408	591

	3'	8'
TOTAL BTEX	23	438,400
TOTAL CVOC	51	6,600

	3'	8'
TOTAL BTEX	48	73
TOTAL CVOC	246	2,054

	3'	8'
TOTAL BTEX	84	76
TOTAL CVOC	60	1,012

	3'	8'
TOTAL BTEX	2	13
TOTAL CVOC	773	1,073

	3'	8'
TOTAL BTEX	81	78
TOTAL CVOC	2,815	1,773

	3'	8'
TOTAL BTEX	32	1,625
TOTAL CVOC	12	272

	3'	8'
TOTAL BTEX	16	42
TOTAL CVOC	99	245

	3'	8'
TOTAL BTEX	52	45
TOTAL CVOC	86	1,663

	3'	8'
TOTAL BTEX	30	4
TOTAL CVOC	43	161

	3'	8'
TOTAL BTEX	17	39
TOTAL CVOC	343	818

	3'	8'
TOTAL BTEX	9	20
TOTAL CVOC	137	2,692

	3'	8'
TOTAL BTEX	30	180
TOTAL CVOC	11	619

	3'	8'
TOTAL BTEX	23	43
TOTAL CVOC	29	281

SG-14, SG-1, SG-4, SG-6, SG-8, SG-11, SG-13, SG-2, SG-5, SG-7, SG-9, SG-3, SG-12, SG-10

DL-3SW-15, DL-3SW-13, DL-3SW-2, DP-3-B-3, SB-9SW-3, TP-8SW-1

RECYCLING PAPER PLANT

CONCRETE BLOCK BUILDING

CONCRETE BLOCK BUILDING

CONCRETE BLOCK BUILDING

CONCRETE BLOCK BUILDING

WATER TREATMENT TANK

TRENCH DRAIN

METAL SHED

WOOD ROOF

TRENCH DRAIN

CONCRETE WALL

FARRINGTON STREET

INDLN PLACE

RESIDENTIAL 2-STORY DWELLING

COMMERCIAL BUILDINGS

LEGEND

- CHAIN LINK FENCE
- FORMER MGP STRUCTURES
- FORMERLY PROPOSED NEW STRUCTURE
- SG-1 SOIL GAS SAMPLING LOCATION
- EXTENT OF IMPACTED SOIL REMOVED DURING IRM
- DP-3-B-3 POST IRM EXCAVATION SAMPLE EXCEEDING SOIL CLEANUP OBJECTIVE

NOTES

1) TOTAL CHLORINATED VOLATILE ORGANIC COMPOUND (CVOC) AND TOTAL BENZENE, TOLUENE, ETHYL BENZENE AND XYLENE (BTEX) CONCENTRATIONS ARE IN $\mu g/m^3$.

30 15 0 30 60

SCALE: 1"=30'

FIGURE 2

CONSOLIDATED EDISON COMPANY OF NEW YORK
FARRINGTON STREET
FORMER GASHOLDER SITE

CONCENTRATIONS OF TOTAL BTEX AND TOTAL CVOCs IN SOIL GAS

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

XREFs: 003A.DWG, BASE.DWG
P:\CONED\440712\CAD\440712C001.dwg, 9/11/06; CLW

ATTACHMENT

DATA USABILITY SUMMARY REPORT

SOIL GAS SAMPLING

FARRINGTON STREET

Prepared For:

CONSOLIDATED EDISON

Prepared By:

PARSONS

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AUGUST 2006

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SECTION 1

DATA USABILITY SUMMARY

Soil gas samples were collected from the Consolidated Edison Farrington Street site in Flushing, New York from May 15, 2006 through May 17, 2006. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan, and
- USEPA Region II Standard Operating Procedures (SOPs).

The analytical laboratory for this project was Air Toxics.

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 36 days on average for the project samples.

The data packages received from Air Toxics were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail by media in the attached data validation report in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a COC record, and received at Air Toxics within one to five days of sampling. All samples were received intact and in good condition at Air Toxics.

1.3 LABORATORY ANALYTICAL METHODS

The soil gas samples were collected from the site and analyzed for volatile organic contents (VOCs). Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given,

"N" - presumptive evidence at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Soil gas samples collected from the site were analyzed for target compound list (TCL) VOCs using the TO-15 analytical method. Certain reported results for the TCL VOC samples were qualified as estimated due to noncompliant instrument calibrations, laboratory control sample recoveries, matrix spike/matrix spike duplicate precision and accuracy, sample containers, and sample volume. Certain reported TCL VOC analytical results were considered unusable and qualified "R" due to poor instrument calibrations. Therefore, the reported TCL VOC analytical results were 99.6% complete (i.e., usable) for the soil gas data presented by Air Toxics. PARCC requirements were met overall.

SECTION 2

DATA VALIDATION REPORTS

2.1 AIR

Data review has been completed for data packages generated by Air Toxics containing soil gas samples collected from the site. The specific samples contained in these data packages, the analyses performed, and a usability summary are presented in Table 2.3-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 TCL Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Sample result verification and identification
- Laboratory duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of LCS recoveries, initial and continuing calibrations, and laboratory duplicate precision.

LCS Recoveries

All LCS recoveries were compliant and within QC acceptance limits (QC limit 70-130%R) with the exception of 1,2,4-trichlorobenzene (197%R), hexachlorobutadiene (176%R), and naphthalene (174%R) associated with samples SG-12 (3'), SG-12 (8'), SG-8 (3'), SG-7 (3'), and SG-7 (8'); and 1,2,4-trichlorobenzene (65%R) and naphthalene (57%R) associated with samples SG-2 (3'), SG-2 (8'), SG-10 (3'), SG-10 (8'), SG-11 (3'), SG-11 (8'), SG-13 (3'), SG-13 (8'), SG-8 (8'), SG-9 (3'), and SG-6 (3'). Therefore, positive results for those compounds where LCS recoveries exceeded the QC acceptance limit were considered estimated, possibly biased high, and qualified "J" for the affected samples. Sample results for those compounds where LCS recoveries fell below the QC acceptance limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 30% with the exception of naphthalene (30.499%RSD) in the initial calibration associated with all samples collected on 5/15/06 and SG-1 (3'); naphthalene (35.094%RSD) and 1,2,4-trichlorobenzene (33.44%RSD) in the initial calibration associated with all samples collected on 5/16/06 except SG-1 (3') and SG-1 (8'), "SG-12", SG-7", and SG-8 (3'); and chloroethane (34.289%RSD), isopentane (34.658%RSD), and 1,2,4-trichlorobenzene (32.920%RSD) in the initial calibration associated with samples collected on 5/17/06. The sample results for these noncompliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a maximum percent difference (%D) of ±25% with the exception of hexachlorobutadiene (-83.63763%D), 1,2,4-trichlorobenzene (126%D), and naphthalene (126%D) in the continuing calibration associated with samples SG-8 (3'), SG-12 (3'), SG-12 (8'), SG-7 (3'), and SG-7 (8'); and 1,2,4-trichlorobenzene (-30.21161%D) and naphthalene (-38.42420%D) in the continuing calibration associated with samples SG-8 (8'), SG-9 (3'), SG-6 (3'), "SG-2", "SG-10", "SG-11", and "SG-13". The sample results for these noncompliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected sample results for those noncompliant compounds where %D exceeded ±90%, were considered unusable and qualified "R".

Laboratory Duplicate Precision

All laboratory duplicate precision results were compliant and within QC acceptance limits with the exception of 1,1-dichloroethane, alpha-chloro-toluene, carbon disulfide, and isopentane associated with sample SG-4 (3'); cis-1,2-dichloethene associated with sample SG-6 (8'); chloromethane, Freon 11, methylene chloride, chloroform,

cyclohexane, trichloroethene, 1,3,5-trimethylbenzene, and 2-methylpentane associated with sample SG-8 (3'); and styrene, 2-ethyltoluene, and isopentane associated with sample SG-7 (8'). Therefore, results for these noncompliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

All TCL volatile sample results were considered usable following data validation, with the exception of certain nondetected results due to poor calibration linearity.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile air data presented by Air Toxics were 99.6% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A.

It was noted that sample canisters used to collect samples SG-5 (3'), SG-5 (8'), SG-1 (3'), SG-14 (3'), SG-14 (8'), and all samples collected on 5/17/06 were not individually certified due to a laboratory autosampler malfunction. These canisters were cleaned but not individually certified to the project required low level reporting limits. In addition, samples AMBIENT-1u, AMBIENT-2u, and AMBIENT-2d were received with greater than the recommended vacuum remaining in the canister. Therefore, all results for these samples were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

TABLE 2.1-1

SUMMARY OF SAMPLE ANALYSES AND USABILITY
FARRINGTON STREET - AIR

SAMPLE ID	MATRIX	SAMPLE DATE	TCL VOCs	FOOTNOTES
SG-5 (3')	Air	5/15/06	OK	
SG-5 (8')	Air	5/15/06	OK	
SG-4 (8')	Air	5/15/06	OK	
AMBIENT-1u	Air	5/15/06	OK	
AMBIENT-1d	Air	5/15/06	OK	
AMBIENT-2u	Air	5/16/06	OK	
AMBIENT-2d	Air	5/16/06	OK	
SG-1 (3')	Air	5/16/06	OK	
SG-1 (8')	Air	5/16/06	OK	
SG-4 (3')	Air	5/16/06	OK	
SG-3 (3')	Air	5/16/06	OK	
SG-3 (8')	Air	5/16/06	OK	
SG-14 (3')	Air	5/16/06	OK	
SG-14 (8')	Air	5/16/06	OK	
SG-2 (3')	Air	5/17/06	OK	
SG-2 (8')	Air	5/17/06	OK	
SG-6 (3')	Air	5/17/06	OK	
SG-6 (8')	Air	5/17/06	OK	
SG-7 (3')	Air	5/17/06	NO	1
SG-7 (8')	Air	5/17/06	NO	1
SG-8 (3')	Air	5/17/06	NO	1
SG-8 (8')	Air	5/17/06	OK	
SG-9 (3')	Air	5/17/06	OK	
SG-9 (8')	Air	5/17/06	OK	
SG-10 (3')	Air	5/17/06	OK	
SG-10 (8')	Air	5/17/06	OK	
SG-11 (3')	Air	5/17/06	OK	
SG-11 (8')	Air	5/17/06	OK	
SG-12 (3')	Air	5/17/06	NO	1
SG-12 (8')	Air	5/17/06	NO	1
SG-13 (3')	Air	5/17/06	OK	
SG-13 (8')	Air	5/17/06	OK	
AMBIENT-3u	Air	5/17/06	OK	
AMBIENT-3d	Air	5/17/06	OK	
TOTAL SAMPLES			34	

NOTES: OK - Sample analysis considered usable and valid.
NO – Sample analysis has noncompliances resulting in unusable data. See appropriate footnote.

FOOTNOTES: 1 – Poor volatile continuing calibrations for certain compounds

ATTACHMENT A

VALIDATED LABORATORY DATA

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605473AR1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	Ambient-1d 0605473AR1-05A ATL 0605473AR1 AIR 5/15/2006 7/21/2006	Ambient-1u 0605473AR1-04A ATL 0605473AR1 AIR 5/15/2006 7/21/2006	Ambient-2d 0605473AR1-14A ATL 0605473AR1 AIR 5/16/2006 7/21/2006	Ambient-2u 0605473AR1-13A ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG-1 (3') 0605473AR1-06A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG3 (3') 0605473AR1-10A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG3 (8') 0605473AR1-11A 8' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG4 (3') 0605473AR1-12A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG-4 (8') 0605473AR1-03A 8' ATL 0605473AR1 AIR 5/15/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:									
	[redacted]										
75-71-8	Freon 12	UG/M3	3.2	4 UJ	2.6 J	2.5 J	21 J	38	66	130	190
76-14-2	Freon 114	UG/M3	1.6 U	5.6 UJ	2 UJ	2.7 UJ	0.92 UJ	1.2 U	1.3 U	1.7 U	2.6 U
74-87-3	Chloromethane	UG/M3	1.5	1.7 J	1.2 J	2.6 J	1.9 J	1	1.8	0.5 U	0.78 U
75-01-4	Vinyl Chloride	UG/M3	0.57 U	2 UJ	0.73 UJ	0.98 UJ	0.34 UJ	0.44 U	0.49 U	0.62 U	0.97 U
106-99-0	1,3-Butadiene	UG/M3	2.5 U	8.9 UJ	3.2 UJ	4.2 UJ	1.5 UJ	2.3	29	2.7 U	4.2 U
74-83-9	Bromomethane	UG/M3	0.87 U	3.1 UJ	1.1 UJ	1.6 J	0.51 UJ	0.66 U	0.74 U	0.95 U	1.5 U
75-00-3	Chloroethane	UG/M3	0.59 U	2.1 UJ	0.76 UJ	1 UJ	0.35 UJ	0.45 U	0.5 U	0.64 U	1 U
75-69-4	Freon 11	UG/M3	1.7	4.5 UJ	1.6 UJ	2.2 UJ	2.3 J	9	17	13	15
64-17-5	Ethanol	UG/M3	5.7	90 J	2.8 J	110 J	93 J	14	15	2.3 U	3.6 U
76-13-1	Freon 113	UG/M3	1.7 U	6.2 UJ	2.2 UJ	2.9 UJ	1 UJ	1.3 U	1.5 U	1.9 U	2.9 U
75-35-4	1,1-Dichloroethene	UG/M3	0.88 U	3.2 UJ	1.1 UJ	1.5 UJ	0.52 UJ	0.68 U	0.76 U	0.97 U	1.5 U
67-64-1	Acetone	UG/M3	23	26 J	97 J	29 J	23 J	73	110	35	52
67-63-0	2-Propanol	UG/M3	2.7 U	9.9 UJ	3.9 J	4.7 UJ	2.8 J	33	3.6	3 U	4.7 U
75-15-0	Carbon Disulfide	UG/M3	15	12 UJ	4.5 UJ	65 J	2 UJ	3.5	5	3.8 UJ	5.9 U
75-09-2	Methylene Chloride	UG/M3	1.5 U	5.6 UJ	2 UJ	19 J	13 J	1.2	1.3 U	1.7 U	2.6 U
1634-04-4	Methyl tert-butyl ether	UG/M3	4 U	14 UJ	5.2 UJ	6.9 UJ	2.4 UJ	3.1 U	3.4 U	4.4 U	6.8 U
156-60-5	trans-1,2-Dichloroethene	UG/M3	4.4 U	16 UJ	5.7 UJ	7.6 UJ	2.6 UJ	3.4 U	3.8 U	4.8 U	7.5 U
110-54-3	Hexane	UG/M3	3.9 U	29 J	5 UJ	8.2 J	5.6 J	3 U	20	4.3 U	6.7 U
75-34-3	1,1-Dichloroethane	UG/M3	0.9 U	3.2 UJ	1.2 UJ	1.6 UJ	0.53 UJ	0.69 U	0.77 U	0.99 UJ	1.5 U
78-93-3	2-Butanone (Methyl Ethyl Ketone	UG/M3	3.3 U	12 UJ	20 J	7.8 J	3.1 J	15	31	6.3	12
156-59-2	cis-1,2-Dichloroethene	UG/M3	0.88 U	3.2 UJ	1.1 UJ	1.5 UJ	0.52 UJ	0.68 U	0.76 U	1.7	1.5 U
109-99-9	Tetrahydrofuran	UG/M3	3.3 U	12 UJ	4.2 UJ	5.6 UJ	1.9 UJ	2.5 U	2.8 U	3.6 U	5.6 U
67-66-3	Chloroform	UG/M3	1.1 U	3.9 UJ	1.4 UJ	1.9 UJ	0.65 J	21	110	4.1	3.8
71-55-6	1,1,1-Trichloroethane	UG/M3	1.2 U	4.4 UJ	1.6 UJ	2.1 UJ	0.72 UJ	1.2	2.2	3.2	3.7
110-82-7	Cyclohexane	UG/M3	3.8 U	14 UJ	4.9 UJ	6.6 UJ	2.3 UJ	2.9 U	3.3 U	4.2 U	6.5 U
56-23-5	Carbon Tetrachloride	UG/M3	1.4 U	5 UJ	1.8 UJ	2.4 UJ	0.83 UJ	1.1 U	1.2 U	1.5 U	2.4 U
71-43-2	Benzene	UG/M3	1.4	2.5 J	2.1 J	2.2 J	1.8 J	2	15	1.1	3.9
107-06-2	1,2-Dichloroethane	UG/M3	0.9 U	3.2 UJ	1.2 UJ	1.6 UJ	0.53 UJ	0.69 U	0.77 U	0.99 U	1.5 U
142-82-5	Heptane	UG/M3	4.6 U	16 UJ	5.9 UJ	7.8 UJ	2.7 UJ	3.5 U	8.5	5 U	7.8 U
79-01-6	Trichloroethene	UG/M3	14	4.3 UJ	1.5 UJ	2 UJ	2.8 J	0.92 U	1 U	91	110
78-87-5	1,2-Dichloropropane	UG/M3	1 U	3.7 UJ	1.3 UJ	1.8 UJ	0.61 UJ	0.79 U	0.88 U	1.1 U	1.8 U
123-91-1	1,4-Dioxane	UG/M3	4 U	14 UJ	5.2 UJ	6.9 UJ	2.4 UJ	3.1 U	3.4 U	4.4 U	6.8 U
75-27-4	Bromodichloromethane	UG/M3	7.5 U	27 UJ	9.6 UJ	13 UJ	4.4 UJ	5.7 U	6.4 U	8.2 U	13 U
10061-01-5	cis-1,3-Dichloropropene	UG/M3	1 U	3.6 UJ	1.3 UJ	1.7 UJ	0.6 UJ	0.78 U	0.87 U	1.1 U	1.7 U
108-10-1	4-Methyl-2-pentanone	UG/M3	4.6 U	16 UJ	16 J	7.8 UJ	2.7 UJ	3.5 U	3.9 U	5 U	7.8 U
108-88-3	Toluene	UG/M3	4.1	11 J	5.6 J	20 J	17 J	5.7	15	1.1	3.8
10061-02-6	trans-1,3-Dichloropropene	UG/M3	1 U	3.6 UJ	1.3 UJ	1.7 UJ	0.6 UJ	0.78 U	0.87 U	1.1 U	1.7 U
79-00-5	1,1,2-Trichloroethane	UG/M3	1.2 U	4.4 UJ	1.6 UJ	2.1 UJ	0.72 UJ	0.93 U	1 U	1.3 U	2.1 U
127-18-4	Tetrachloroethene	UG/M3	2.5	5.4 UJ	1.9 UJ	2.6 UJ	9.8 J	28	48	520	750
591-78-6	2-Hexanone	UG/M3	4.6 U	16 UJ	5.9 UJ	7.8 UJ	2.7 UJ	3.5 U	3.9 U	5 U	7.8 U

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605473AR1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	Ambient-1d 0605473AR1-05A ATL 0605473AR1 AIR 5/15/2006 7/21/2006	Ambient-1u 0605473AR1-04A ATL 0605473AR1 AIR 5/15/2006 7/21/2006	Ambient-2d 0605473AR1-14A ATL 0605473AR1 AIR 5/16/2006 7/21/2006	Ambient-2u 0605473AR1-13A ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG-1 (3') 0605473AR1-06A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG3 (3') 0605473AR1-10A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG3 (8') 0605473AR1-11A 8' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG4 (3') 0605473AR1-12A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG-4 (8') 0605473AR1-03A 8' ATL 0605473AR1 AIR 5/15/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:									
	VOLATILES										
124-48-1	Dibromochloromethane	UG/M3	9.5 U	34 UJ	12 UJ	16 UJ	5.6 UJ	7.3 U	8.1 U	10 U	16 U
106-93-4	1,2-Dibromoethane (EDB)	UG/M3	1.7 U	6.2 UJ	2.2 UJ	2.9 UJ	1 UJ	1.3 U	1.5 U	1.9 U	2.9 U
108-90-7	Chlorobenzene	UG/M3	1 U	3.7 UJ	1.3 UJ	1.8 UJ	0.61 UJ	0.79 U	0.88 U	1.1 U	1.7 U
100-41-4	Ethyl Benzene	UG/M3	0.97 U	3.5 UJ	1.2 UJ	1.7 UJ	0.91 J	2.2	3.4	1 U	1.6 U
108-38-3/106-	m,p-Xylene	UG/M3	2.2	3.5 UJ	2.6 J	3.8 J	2.4 J	4.2	5.5	1 U	3
95-47-6	o-Xylene	UG/M3	0.97 U	3.5 UJ	1.2 UJ	1.9 J	1.2 J	2.1	2.9	1 U	1.8
100-42-5	Styrene	UG/M3	0.95 U	3.4 UJ	1.2 UJ	4.1 J	0.83 J	0.74	2.5	1 U	1.6 U
75-25-2	Bromoform	UG/M3	12 U	42 UJ	15 UJ	20 UJ	6.8 UJ	8.8 U	9.9 U	13 U	20 U
98-82-8	Cumene	UG/M3	5.5 U	20 UJ	7 UJ	9.4 UJ	3.2 UJ	4.2 U	4.7 U	6 U	9.3 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/M3	1.5 U	5.5 UJ	2 UJ	2.6 UJ	0.91 UJ	1.2 U	1.3 U	1.7 U	2.6 U
103-65-1	Propylbenzene	UG/M3	5.5 U	20 UJ	7 UJ	9.4 UJ	3.2 UJ	4.2 U	4.7 U	6 U	9.3 U
622-96-8	4-Ethyltoluene	UG/M3	5.5 U	20 UJ	7 UJ	9.4 UJ	5.2 J	4.2 U	4.7 U	6 U	9.3 U
108-67-8	1,3,5-Trimethylbenzene	UG/M3	1.1 U	4 UJ	1.4 UJ	2.3 J	1.7 J	0.84 U	0.94 U	1.2 U	1.9 U
95-63-6	1,2,4-Trimethylbenzene	UG/M3	1.2	4 UJ	1.6 J	6.4 J	4.2 J	1.5	1.4	1.2 U	1.9 U
541-73-1	1,3-Dichlorobenzene	UG/M3	1.3 U	4.8 UJ	1.7 UJ	2.3 UJ	0.79 UJ	1 U	1.1 U	1.5 U	2.3 U
106-46-7	1,4-Dichlorobenzene	UG/M3	1.3 U	4.8 UJ	1.7 UJ	2.3 UJ	0.79 UJ	1 U	1.1 U	1.5 U	2.3 U
100-44-7	alpha-Chlorotoluene	UG/M3	1.2 U	4.2 UJ	1.5 UJ	2 UJ	0.68 UJ	0.88 U	0.99 U	9.8 J	2 U
95-50-1	1,2-Dichlorobenzene	UG/M3	1.3 U	4.8 UJ	1.7 UJ	2.3 UJ	0.79 UJ	1 U	1.1 U	1.5 U	2.3 U
120-82-1	1,2,4-Trichlorobenzene	UG/M3	8.3 U	30 UJ	11 UJ	14 UJ	4.9 UJ	6.3 UJ	7.1 UJ	9 UJ	14 U
87-68-3	Hexachlorobutadiene	UG/M3	12 U	43 UJ	15 UJ	20 UJ	7 UJ	9.1 U	10 U	13 U	20 U
565-59-3	2,3-Dimethylpentane	UG/M3	4.6 U	16 UJ	5.9 UJ	7.8 UJ	2.7 UJ	3.5 U	3.9 U	5 U	7.8 U
107-83-5	2-Methylpentane	UG/M3	3.9 U	14 UJ	5 UJ	6.7 UJ	2.3 UJ	3 U	9.1	4.3 U	6.7 U
496-11-7	Indan	UG/M3	5.4 U	19 UJ	6.9 UJ	9.2 UJ	3.2 UJ	4.1 U	4.6 U	5.9 U	9.2 U
95-13-6	Indene	UG/M3	5.3 U	19 UJ	6.8 UJ	9.1 UJ	3.1 UJ	4.1 U	4.5 U	5.8 U	9 U
78-78-4	Isopentane	UG/M3	3.3 U	12 UJ	4.2 UJ	10 J	6 J	4.8	48	3.6 UJ	5.6 U
91-20-3	Naphthalene	UG/M3	5.8 UJ	21 UJ	7.5 UJ	10 UJ	3.4 UJ	4.5 UJ	5 UJ	6.4 UJ	10 UJ
110-02-1	Thiophene	UG/M3	3.8 U	14 UJ	4.9 UJ	6.6 UJ	2.3 UJ	2.9 U	3.3 U	4.2 U	6.5 U
107-05-1	3-Chloropropene	UG/M3	3.5 U	12 UJ	4.5 UJ	6 UJ	2.1 UJ	2.7 U	3 U	3.8 U	5.9 U
540-84-1	2,2,4-Trimethylpentane	UG/M3	5.2 U	19 UJ	6.7 UJ	8.9 UJ	3.1 UJ	4 U	4.5 U	5.7 U	8.9 U

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605473AR1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SG-5 (3') 0605473AR1-01A 3' ATL 0605473AR1 AIR 5/15/2006 7/21/2006	SG-5 (8') 0605473AR1-02A 8' ATL 0605473AR1 AIR 5/15/2006 7/21/2006	SG14 (3') 0605473AR1-08A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG14 (8') 0605473AR1-09A 8' ATL 0605473AR1 AIR 5/16/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:				
	[redacted]					
75-71-8	Freon 12	UG/M3	36 J	670 J	32 J	38 J
76-14-2	Freon 114	UG/M3	0.97 UJ	3.7 UJ	3.7 J	5.2 J
74-87-3	Chloromethane	UG/M3	1.5 J	1.1 UJ	0.9 J	0.44 UJ
75-01-4	Vinyl Chloride	UG/M3	0.36 UJ	1.3 UJ	0.45 UJ	0.55 UJ
106-99-0	1,3-Butadiene	UG/M3	13 J	11 J	1.9 UJ	22 J
74-83-9	Bromomethane	UG/M3	0.54 UJ	2 UJ	0.68 UJ	0.83 UJ
75-00-3	Chloroethane	UG/M3	0.36 J	2.2 J	0.46 UJ	0.56 UJ
75-69-4	Freon 11	UG/M3	6.3 J	41 J	60 J	44 J
64-17-5	Ethanol	UG/M3	6.6 J	46 J	1.6 UJ	19 J
76-13-1	Freon 113	UG/M3	1.1 UJ	4 UJ	1.3 UJ	1.6 UJ
75-35-4	1,1-Dichloroethene	UG/M3	0.55 UJ	2.1 UJ	0.69 UJ	0.85 UJ
67-64-1	Acetone	UG/M3	130 J	90 J	27 J	120 J
67-63-0	2-Propanol	UG/M3	6 J	6.5 UJ	2.2 UJ	4.6 J
75-15-0	Carbon Disulfide	UG/M3	13 J	9.7 J	2.7 UJ	19 J
75-09-2	Methylene Chloride	UG/M3	1.9 J	3.7 UJ	1.7 J	1.5 UJ
1634-04-4	Methyl tert-butyl ether	UG/M3	2.5 UJ	9.5 UJ	3.2 UJ	3.8 UJ
156-60-5	trans-1,2-Dichloroethene	UG/M3	2.8 UJ	10 UJ	3.5 UJ	4.2 UJ
110-54-3	Hexane	UG/M3	6.3 J	9.3 UJ	3.1 UJ	35 J
75-34-3	1,1-Dichloroethane	UG/M3	0.56 UJ	2.1 UJ	0.71 UJ	0.87 UJ
78-93-3	2-Butanone (Methyl Ethyl Ketone	UG/M3	34 J	19 J	7 J	27 J
156-59-2	cis-1,2-Dichloroethene	UG/M3	0.55 UJ	2.1 UJ	0.78 J	0.85 UJ
109-99-9	Tetrahydrofuran	UG/M3	2 UJ	7.8 UJ	2.6 UJ	3.2 UJ
67-66-3	Chloroform	UG/M3	1.8 J	2.6 UJ	1 J	1 UJ
71-55-6	1,1,1-Trichloroethane	UG/M3	1.2 J	4.9 J	6 J	14 J
110-82-7	Cyclohexane	UG/M3	2.4 UJ	9.1 UJ	3 UJ	3.7 UJ
56-23-5	Carbon Tetrachloride	UG/M3	0.87 UJ	3.3 UJ	1.1 UJ	1.3 UJ
71-43-2	Benzene	UG/M3	5.3 J	8.7 J	1.7 J	9.6 J
107-06-2	1,2-Dichloroethane	UG/M3	0.56 UJ	2.1 UJ	0.71 UJ	0.87 UJ
142-82-5	Heptane	UG/M3	4.3 J	11 UJ	3.6 UJ	16 J
79-01-6	Trichloroethene	UG/M3	1.8 J	15 J	1.7 J	1.2 UJ
78-87-5	1,2-Dichloropropane	UG/M3	0.64 UJ	2.4 UJ	0.81 UJ	0.99 UJ
123-91-1	1,4-Dioxane	UG/M3	2.5 UJ	9.5 UJ	3.2 UJ	3.8 UJ
75-27-4	Bromodichloromethane	UG/M3	4.6 UJ	18 UJ	5.9 UJ	7.2 UJ
10061-01-5	cis-1,3-Dichloropropene	UG/M3	0.63 UJ	2.4 UJ	0.79 UJ	0.97 UJ
108-10-1	4-Methyl-2-pentanone	UG/M3	2.8 UJ	11 UJ	3.6 UJ	4.4 UJ
108-88-3	Toluene	UG/M3	10 J	8.5 J	6.4 J	12 J
10061-02-6	trans-1,3-Dichloropropene	UG/M3	0.63 UJ	2.4 UJ	0.79 UJ	0.97 UJ
79-00-5	1,1,2-Trichloroethane	UG/M3	0.76 UJ	2.9 UJ	0.95 UJ	1.2 UJ
127-18-4	Tetrachloroethene	UG/M3	35 J	930 J	300 J	490 J
591-78-6	2-Hexanone	UG/M3	3.7 J	11 UJ	3.6 UJ	4.4 UJ

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605473AR1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SG-5 (3') 0605473AR1-01A 3' ATL 0605473AR1 AIR 5/15/2006 7/21/2006	SG-5 (8') 0605473AR1-02A 8' ATL 0605473AR1 AIR 5/15/2006 7/21/2006	SG14 (3') 0605473AR1-08A 3' ATL 0605473AR1 AIR 5/16/2006 7/21/2006	SG14 (8') 0605473AR1-09A 8' ATL 0605473AR1 AIR 5/16/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:				
124-48-1	Dibromochloromethane	UG/M3	5.9 UJ	22 UJ	7.4 UJ	9.1 UJ
106-93-4	1,2-Dibromoethane (EDB)	UG/M3	1.1 UJ	4 UJ	1.3 UJ	1.6 UJ
108-90-7	Chlorobenzene	UG/M3	0.64 UJ	2.4 UJ	0.8 UJ	0.98 UJ
100-41-4	Ethyl Benzene	UG/M3	5.9 J	4 J	3 J	4.2 J
108-38-3/106-	m,p-Xylene	UG/M3	21 J	15 J	7.8 J	4.9 J
95-47-6	o-Xylene	UG/M3	10 J	8.3 J	2.7 J	2.3 J
100-42-5	Styrene	UG/M3	0.59 UJ	3.5 J	0.74 UJ	2.2 J
75-25-2	Bromoform	UG/M3	7.2 UJ	27 UJ	9 UJ	11 UJ
98-82-8	Cumene	UG/M3	3.4 UJ	13 UJ	4.3 UJ	5.2 UJ
79-34-5	1,1,2,2-Tetrachloroethane	UG/M3	0.95 UJ	3.6 UJ	1.2 UJ	1.5 UJ
103-65-1	Propylbenzene	UG/M3	3.4 UJ	13 UJ	4.3 UJ	5.3 UJ
622-96-8	4-Ethyltoluene	UG/M3	3.5 J	13 UJ	4.3 UJ	5.3 UJ
108-67-8	1,3,5-Trimethylbenzene	UG/M3	1.3 J	5.8 J	0.86 UJ	1 UJ
95-63-6	1,2,4-Trimethylbenzene	UG/M3	4.7 J	17 J	3.3 J	1.6 J
541-73-I	1,3-Dichlorobenzene	UG/M3	0.84 UJ	3.2 UJ	1 UJ	1.3 UJ
106-46-7	1,4-Dichlorobenzene	UG/M3	0.84 UJ	3.2 UJ	1 UJ	1.3 UJ
100-44-7	alpha-Chlorotoluene	UG/M3	0.72 UJ	2.7 UJ	0.9 UJ	1.1 UJ
95-50-1	1,2-Dichlorobenzene	UG/M3	0.84 UJ	3.2 UJ	1 UJ	1.3 UJ
120-82-1	1,2,4-Trichlorobenzene	UG/M3	5.2 UJ	20 UJ	6.5 UJ	7.9 UJ
87-68-3	Hexachlorobutadiene	UG/M3	7.4 UJ	28 UJ	9.3 UJ	11 UJ
565-59-3	2,3-Dimethylpentane	UG/M3	2.8 UJ	11 UJ	3.6 UJ	4.4 UJ
107-83-5	2-Methylpentane	UG/M3	2.4 UJ	9.3 UJ	3.1 UJ	20 J
496-11-7	Indan	UG/M3	3.4 UJ	13 UJ	4.2 UJ	5.2 UJ
95-13-6	Indene	UG/M3	3.3 UJ	12 UJ	4.2 UJ	5.1 UJ
78-78-4	Isopentane	UG/M3	9.3 J	12 J	3.8 J	78 J
91-20-3	Naphthalene	UG/M3	4.6 J	14 UJ	4.6 UJ	5.6 UJ
110-02-1	Thiophene	UG/M3	2.4 UJ	9.1 UJ	3 UJ	3.7 UJ
107-05-1	3-Chloropropene	UG/M3	2.2 UJ	8.2 UJ	2.7 UJ	3.3 UJ
540-84-1	2,2,4-Trimethylpentane	UG/M3	3.2 UJ	12 UJ	4.1 UJ	5 UJ

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605473BR1		Sample ID: Lab Sample Id Depth: Source: SDG: Matrix: Sampled: Validated:	SG-1 (8') 0605473BR1-07A 8' ATL 0605473BR1 AIR 5/16/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:	
	VOLATILES		
75-71-8	Freon 12	UG/M3	660 U
76-14-2	Freon 114	UG/M3	940 U
74-87-3	Chloromethane	UG/M3	1100 U
75-01-4	Vinyl Chloride	UG/M3	340 U
106-99-0	1,3-Butadiene	UG/M3	300 U
74-83-9	Bromomethane	UG/M3	520 U
75-00-3	Chloroethane	UG/M3	350 U
75-69-4	Freon 11	UG/M3	750 U
64-17-5	Ethanol	UG/M3	1000 U
76-13-1	Freon 113	UG/M3	1000 U
75-35-4	1,1-Dichloroethene	UG/M3	530 U
67-64-1	Acetone	UG/M3	1300 U
67-63-0	2-Propanol	UG/M3	1300 U
75-15-0	Carbon Disulfide	UG/M3	420 U
75-09-2	Methylene Chloride	UG/M3	1100
1634-04-4	Methyl tert-butyl ether	UG/M3	480 U
156-60-5	trans-1,2-Dichloroethene	UG/M3	530 U
110-54-3	Hexane	UG/M3	470 U
75-34-3	1,1-Dichloroethane	UG/M3	540 U
78-93-3	2-Butanone (Methyl Ethyl Ketone	UG/M3	400 U
156-59-2	cis-1,2-Dichloroethene	UG/M3	530 U
109-99-9	Tetrahydrofuran	UG/M3	400 U
67-66-3	Chloroform	UG/M3	650 U
71-55-6	1,1,1-Trichloroethane	UG/M3	730 U
110-82-7	Cyclohexane	UG/M3	480
56-23-5	Carbon Tetrachloride	UG/M3	840 U
71-43-2	Benzene	UG/M3	7400
107-06-2	1,2-Dichloroethane	UG/M3	540 U
142-82-5	Heptane	UG/M3	1900
79-01-6	Trichloroethene	UG/M3	3100
78-87-5	1,2-Dichloropropane	UG/M3	620 U
123-91-1	1,4-Dioxane	UG/M3	1900 U
75-27-4	Bromodichloromethane	UG/M3	900 U
10061-01-5	cis-1,3-Dichloropropene	UG/M3	610 U
108-10-1	4-Methyl-2-pentanone	UG/M3	550 U
108-88-3	Toluene	UG/M3	54000
10061-02-6	trans-1,3-Dichloropropene	UG/M3	610 U
79-00-5	1,1,2-Trichloroethane	UG/M3	730 U
127-18-4	Tetrachloroethene	UG/M3	2400
591-78-6	2-Hexanone	UG/M3	2200 U

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605473BR1		Sample ID: Lab Sample Id Depth: Source: SDG: Matrix: Sampled: Validated:	SG-1 (8') 0605473BR1-07A 8' ATL 0605473BR1 AIR 5/16/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:	
124-48-1	Dibromochloromethane	UG/M3	1100 U
106-93-4	1,2-Dibromoethane (EDB)	UG/M3	1000 U
108-90-7	Chlorobenzene	UG/M3	620 U
100-41-4	Ethyl Benzene	UG/M3	180000
108-38-3/106-4	m,p-Xylene	UG/M3	140000
95-47-6	o-Xylene	UG/M3	57000
100-42-5	Styrene	UG/M3	570 U
75-25-2	Bromoform	UG/M3	1400 U
98-82-8	Cumene	UG/M3	4200
79-34-5	1,1,2,2-Tetrachloroethane	UG/M3	920 U
103-65-1	Propylbenzene	UG/M3	2600
622-96-8	4-Ethyltoluene	UG/M3	17000
108-67-8	1,3,5-Trimethylbenzene	UG/M3	6900
95-63-6	1,2,4-Trimethylbenzene	UG/M3	14000
541-73-1	1,3-Dichlorobenzene	UG/M3	800 U
106-46-7	1,4-Dichlorobenzene	UG/M3	800 U
100-44-7	alpha-Chlorotoluene	UG/M3	690 U
95-50-1	1,2-Dichlorobenzene	UG/M3	800 U
120-82-1	1,2,4-Trichlorobenzene	UG/M3	4000 U
87-68-3	Hexachlorobutadiene	UG/M3	5700 U
565-59-3	2,3-Dimethylpentane	UG/M3	2200 U
107-83-5	2-Methylpentane	UG/M3	1900 U
496-11-7	Indan	UG/M3	7800
95-13-6	Indene	UG/M3	6800
78-78-4	Isopentane	UG/M3	1600 U
91-20-3	Naphthalene	UG/M3	2800 U
110-02-1	Thiophene	UG/M3	1800 U
107-05-1	3-Chloropropene	UG/M3	1700 U
540-84-1	2,2,4-Trimethylpentane	UG/M3	620 U

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605509R1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	Ambient-3d 0605509R1-20A ATL 0605509R1 AIR 5/17/2006 7/21/2006	Ambient-3u 0605509R1-19A ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-2 (3') 0605509R1-04A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-2 (8') 0605509R1-03A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-6 (3') 0605509R1-17A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-7 (8') 0605509R1-12A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-8 (3') 0605509R1-13A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-8 (8') 0605509R1-14A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-9 (3') 0605509R1-15A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:									
[redacted]											
75-71-8	Freon 12	UG/M3	3 J	2.8 J	3.1 J	220 J	19 J	50 J	3.7 J	7.7 J	3.6 J
76-14-2	Freon 114	UG/M3	0.95 UJ	1.2 UJ	3.1 UJ	12 UJ	2.8 UJ	3.1 UJ	3.8 UJ	2.9 UJ	1.2 UJ
74-87-3	Chloromethane	UG/M3	1.2 J	1.1 J	2 J	6.5 J	0.83 UJ	0.9 UJ	1.1 UJ	1.2 J	0.35 J
75-01-4	Vinyl Chloride	UG/M3	0.35 UJ	0.46 UJ	1.1 UJ	4.4 UJ	1 UJ	1.1 UJ	1.4 UJ	1 UJ	0.45 UJ
106-99-0	1,3-Butadiene	UG/M3	1.5 UJ	2 UJ	4.8 UJ	19 UJ	4.4 UJ	6.1 J	6 UJ	19 J	3.7 J
74-83-9	Bromomethane	UG/M3	0.53 UJ	0.7 UJ	1.7 UJ	6.6 UJ	1.6 UJ	1.7 UJ	2.1 UJ	1.6 UJ	0.68 UJ
75-00-3	Chloroethane	UG/M3	0.36 UJ	0.47 UJ	1.2 UJ	4.5 UJ	1.1 UJ	1.2 UJ	1.4 UJ	1.1 UJ	0.46 UJ
75-69-4	Freon 11	UG/M3	1.9 J	2.1 J	2.4 J	9.6 UJ	3.3 J	5.6 J	3 UJ	4.9 J	1.8 J
64-17-5	Ethanol	UG/M3	17 J	13 J	60 J	30 J	14 J	6.1 J	55 J	14 J	4.6 J
76-13-1	Freon 113	UG/M3	1 UJ	1.4 UJ	3.4 UJ	13 UJ	3.1 UJ	3.4 UJ	4.2 UJ	3.1 UJ	1.3 UJ
75-35-4	1,1-Dichloroethene	UG/M3	0.54 UJ	0.71 UJ	1.7 UJ	6.8 UJ	1.6 UJ	1.7 UJ	2.2 UJ	1.6 UJ	0.69 UJ
67-64-1	Acetone	UG/M3	18 J	12 J	460 J	1600 J	68 J	88 J	53 J	90 J	48 J
67-63-0	2-Propanol	UG/M3	2.4 J	2.2 UJ	32 J	21 UJ	6.1 J	5.4 UJ	12 J	5 UJ	3.1 J
75-15-0	Carbon Disulfide	UG/M3	2.1 UJ	2.8 UJ	19 J	61 J	21 J	12 J	8.5 UJ	11 J	100 J
75-09-2	Methylene Chloride	UG/M3	1.1 J	2.8 J	4.2 J	12 UJ	3.7 J	3 UJ	3.8 UJ	2.8 UJ	1.2 UJ
1634-04-4	Methyl tert-butyl ether	UG/M3	2.4 UJ	3.2 UJ	7.9 UJ	31 UJ	7.2 UJ	7.9 UJ	9.8 UJ	7.4 UJ	3.2 UJ
156-60-5	trans-1,2-Dichloroethene	UG/M3	2.7 UJ	3.5 UJ	8.7 UJ	34 UJ	8 UJ	8.7 UJ	11 UJ	8.1 UJ	3.5 UJ
110-54-3	Hexane	UG/M3	2.4 UJ	3.2 UJ	7.7 UJ	60 J	7.1 UJ	7.7 UJ	14 J	10 J	3.1 J
75-34-3	1,1-Dichloroethane	UG/M3	0.55 UJ	0.72 UJ	1.8 UJ	6.9 UJ	1.6 UJ	1.8 UJ	2.2 UJ	1.6 UJ	0.71 UJ
78-93-3	2-Butanone (Methyl Ethyl Ketone	UG/M3	2.7 J	2.6 UJ	110 J	280 J	15 J	15 J	10 J	21 J	9.6 J
156-59-2	cis-1,2-Dichloroethene	UG/M3	0.54 UJ	0.71 UJ	1.7 UJ	6.8 UJ	1.6 UJ	1.7 UJ	2.2 UJ	3.4 J	0.69 UJ
109-99-9	Tetrahydrofuran	UG/M3	2 UJ	2.6 UJ	6.4 UJ	25 UJ	5.9 UJ	6.4 UJ	8 UJ	6 UJ	2.6 UJ
67-66-3	Chloroform	UG/M3	0.66 UJ	0.87 UJ	2.1 UJ	8.3 UJ	2 UJ	2.1 UJ	2.6 UJ	6.9 J	0.96 J
71-55-6	1,1,1-Trichloroethane	UG/M3	0.74 UJ	0.98 UJ	2.4 UJ	9.3 UJ	2.2 UJ	2.7 J	3 UJ	5.4 J	0.95 UJ
110-82-7	Cyclohexane	UG/M3	2.3 UJ	3.1 UJ	7.5 UJ	29 UJ	6.9 UJ	7.5 UJ	9.4 UJ	7 UJ	3 UJ
56-23-5	Carbon Tetrachloride	UG/M3	0.86 UJ	1.1 UJ	2.8 UJ	11 UJ	2.5 UJ	2.8 UJ	3.4 UJ	2.6 UJ	1.1 UJ
71-43-2	Benzene	UG/M3	1.8 J	1.4 J	3.6 J	26 J	2.8 J	5.9 J	2.5 J	26 J	2.9 J
107-06-2	1,2-Dichloroethane	UG/M3	0.55 UJ	0.72 UJ	1.8 UJ	6.9 UJ	1.6 UJ	1.8 UJ	2.2 UJ	1.6 UJ	0.71 UJ
142-82-5	Heptane	UG/M3	2.8 UJ	3.7 UJ	9 UJ	50 J	8.2 UJ	9 UJ	11 UJ	8.4 UJ	3.6 UJ
79-01-6	Trichloroethene	UG/M3	0.73 UJ	0.96 UJ	2.4 UJ	19 J	2.2 UJ	2.4 UJ	2.9 UJ	12 J	0.94 UJ
78-87-5	1,2-Dichloropropane	UG/M3	0.6 UJ	0.83 UJ	2 UJ	7.9 UJ	1.8 UJ	2 UJ	2.5 UJ	1.9 UJ	0.81 UJ
123-91-1	1,4-Dioxane	UG/M3	2.4 UJ	3.2 UJ	7.9 UJ	31 UJ	7.2 UJ	7.9 UJ	9.8 UJ	7.4 UJ	3.2 UJ
75-27-4	Bromodichloromethane	UG/M3	4.6 UJ	6 UJ	15 UJ	57 UJ	13 UJ	15 UJ	18 UJ	14 UJ	5.9 UJ
10061-01-5	cis-1,3-Dichloropropene	UG/M3	0.62 UJ	0.81 UJ	2 UJ	7.8 UJ	1.8 UJ	2 UJ	2.5 UJ	1.9 UJ	0.79 UJ
108-10-1	4-Methyl-2-pentanone	UG/M3	2.8 UJ	3.7 UJ	9 UJ	35 UJ	8.2 UJ	9 UJ	11 UJ	8.4 UJ	3.6 UJ
108-88-3	Toluene	UG/M3	7.5 J	8.5 J	12 J	29 J	26 J	4.4 J	61 J	26 J	2.9 J
10061-02-6	trans-1,3-Dichloropropene	UG/M3	0.62 UJ	0.81 UJ	2 UJ	7.8 UJ	1.8 UJ	2 UJ	2.5 UJ	1.9 UJ	0.7 UJ
79-00-5	1,1,2-Trichloroethane	UG/M3	0.74 UJ	0.98 UJ	2.4 UJ	9.3 UJ	2.2 UJ	2.4 UJ	3 UJ	2.2 UJ	0.95 UJ
127-18-4	Tetrachloroethene	UG/M3	0.92 UJ	1.8 J	3 UJ	26 J	220 J	760 J	56 J	970 J	130 J
591-78-6	2-Hexanone	UG/M3	2.8 UJ	3.7 UJ	16 J	35 UJ	8.2 UJ	9 UJ	11 UJ	8.4 UJ	3.6 UJ

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605509R1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	Ambient-3d 0605509R1-20A ATL 0605509R1 AIR 5/17/2006 7/21/2006	Ambient-3u 0605509R1-19A ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-2 (3') 0605509R1-04A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-2 (8') 0605509R1-03A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-6 (3') 0605509R1-17A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-7 (8') 0605509R1-12A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-8 (3') 0605509R1-13A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-8 (8') 0605509R1-14A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-9 (3') 0605509R1-15A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:									
	VOLATILES (TO-15)										
124-48-1	Dibromochloromethane	UG/M3	5.8 UJ	7.6 UJ	19 UJ	73 UJ	17 UJ	19 UJ	23 UJ	17 UJ	7.4 UJ
106-93-4	1,2-Dibromoethane (EDB)	UG/M3	1 UJ	1.4 UJ	3.4 UJ	13 UJ	3.1 UJ	3.4 UJ	4.2 UJ	3.2 UJ	1.3 UJ
108-90-7	Chlorobenzene	UG/M3	0.63 UJ	0.82 UJ	2 UJ	7.9 UJ	1.8 UJ	2 UJ	2.5 UJ	1.9 UJ	0.8 UJ
100-41-4	Ethyl Benzene	UG/M3	1.1 J	1.1 J	2.8 J	710 J	7.3 J	7.3 J	7.3 J	5.2 J	0.92 J
108-38-3/106-4	m,p-Xylene	UG/M3	3.4 J	3.1 J	9.5 J	480 J	8.4 J	14 J	9.5 J	12 J	1.9 J
95-47-6	o-Xylene	UG/M3	1.1 J	1 J	3.8 J	380 J	3.2 J	7.2 J	3.5 J	6.3 J	0.86 J
100-42-5	Styrene	UG/M3	0.58 UJ	0.76 UJ	1.9 UJ	7.3 UJ	3.6 J	1.9 UJ	4.8 J	9.9 J	2.9 J
75-25-2	Bromoform	UG/M3	7 UJ	9.2 UJ	23 UJ	88 UJ	21 UJ	23 UJ	28 UJ	21 UJ	9 UJ
98-82-8	Cumene	UG/M3	3.3 UJ	4.4 UJ	11 UJ	42 UJ	9.9 UJ	11 UJ	13 UJ	10 UJ	4.3 UJ
79-34-5	1,1,2,2-Tetrachloroethane	UG/M3	0.93 UJ	1.2 UJ	3 UJ	12 UJ	2.8 UJ	3 UJ	3.7 UJ	2.8 UJ	1.2 UJ
103-65-1	Propylbenzene	UG/M3	3.3 UJ	4.4 UJ	11 UJ	42 UJ	9.9 UJ	11 UJ	13 UJ	10 UJ	4.3 UJ
622-96-8	4-Ethyltoluene	UG/M3	3.3 UJ	4.4 UJ	11 UJ	140 J	9.9 UJ	11 UJ	13 UJ	10 UJ	4.3 UJ
108-67-8	1,3,5-Trimethylbenzene	UG/M3	0.67 UJ	0.88 UJ	2.8 J	76 J	2 UJ	2.4 J	2.7 UJ	2 UJ	0.86 UJ
95-63-6	1,2,4-Trimethylbenzene	UG/M3	1.3 J	1.2 J	7.2 J	190 J	2.5 J	5.2 J	2.7 J	2.1 J	0.87 J
541-73-1	1,3-Dichlorobenzene	UG/M3	0.82 UJ	1.1 UJ	2.6 UJ	10 UJ	2.4 UJ	2.6 UJ	3.3 UJ	2.5 UJ	1 UJ
106-46-7	1,4-Dichlorobenzene	UG/M3	0.82 UJ	1.1 UJ	2.6 UJ	10 UJ	2.4 UJ	2.6 UJ	3.3 UJ	2.5 UJ	1 UJ
100-44-7	alpha-Chlorotoluene	UG/M3	0.7 UJ	0.93 UJ	2.3 UJ	8.8 UJ	2.1 UJ	2.3 UJ	2.8 UJ	2.1 UJ	0.9 UJ
95-50-1	1,2-Dichlorobenzene	UG/M3	0.82 UJ	1.1 UJ	2.6 UJ	10 UJ	2.4 UJ	2.6 UJ	3.3 UJ	2.5 UJ	1 UJ
120-82-1	1,2,4-Trichlorobenzene	UG/M3	5 UJ	6.6 UJ	16 UJ	63 UJ	15 UJ	R	R	15 UJ	6.5 UJ
87-68-3	Hexachlorobutadiene	UG/M3	7.2 UJ	9.5 UJ	23 UJ	91 UJ	21 UJ	23 UJ	29 UJ	22 UJ	9.3 UJ
565-59-3	2,3-Dimethylpentane	UG/M3	2.8 UJ	3.7 UJ	9 UJ	35 UJ	8.2 UJ	9 UJ	11 UJ	8.4 UJ	3.6 UJ
107-83-5	2-Methylpentane	UG/M3	2.4 UJ	3.2 UJ	7.7 UJ	32 J	7.1 UJ	7.7 UJ	9.6 UJ	7.2 UJ	3.1 UJ
496-11-7	Indan	UG/M3	3.3 UJ	4.3 UJ	10 UJ	490 J	9.7 UJ	10 UJ	13 UJ	9.9 UJ	4.2 UJ
95-13-6	Indene	UG/M3	3.2 UJ	4.2 UJ	10 UJ	220 J	9.5 UJ	10 UJ	13 UJ	9.7 UJ	10 J
78-78-4	Isopentane	UG/M3	14 J	9.8 J	10 J	110 J	320 J	6.5 UJ	470 J	73 J	9.1 J
91-20-3	Naphthalene	UG/M3	3.6 UJ	4.7 UJ	11 UJ	1300 J	10 UJ	21 J	R	11 UJ	4.6 UJ
110-02-1	Thiophene	UG/M3	2.3 UJ	3.1 UJ	7.5 UJ	29 UJ	6.9 UJ	7.5 UJ	9.4 UJ	7 UJ	3 UJ
107-05-1	3-Chloropropene	UG/M3	2.1 UJ	2.8 UJ	6.8 UJ	27 UJ	6.3 UJ	6.8 UJ	8.5 UJ	6.4 UJ	2.7 UJ
540-84-1	2,2,4-Trimethylpentane	UG/M3	3.2 UJ	4.2 UJ	10 UJ	40 UJ	9.4 UJ	10 UJ	13 UJ	9.6 UJ	4.1 UJ

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605509R1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SG-9 (8') 0605509R1-16A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-10 (3') 0605509R1-06A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-10 (8') 0605509R1-05A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-11 (3') 0605509R1-08A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-11 (8') 0605509R1-07A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-12 (3') 0605509R1-02A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-12 (8') 0605509R1-01A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-13 (3') 0605509R1-10A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-13 (8') 0605509R1-09A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:									
	VOLATILES (TO-15)										
75-71-8	Freon 12	UG/M3	18 J	2.9 J	3.9 J	3 J	3.2 J	11 J	88 J	69 J	38 J
76-14-2	Freon 114	UG/M3	7.8 UJ	1 UJ	1.1 UJ	1.2 UJ	2.4 UJ	1 UJ	1.2 UJ	6 UJ	3.3 UJ
74-87-3	Chloromethane	UG/M3	2.3 UJ	0.31 UJ	0.33 UJ	1.9 J	0.71 UJ	0.99 J	0.37 UJ	1.7 J	3.1 J
75-01-4	Vinyl Chloride	UG/M3	8.3 J	0.38 UJ	2.2 J	0.43 UJ	0.87 UJ	0.37 UJ	0.46 UJ	2.2 UJ	1.2 UJ
106-99-0	1,3-Butadiene	UG/M3	12 UJ	3.6 J	1.8 UJ	1.8 UJ	14 J	1.6 J	2 UJ	9.4 UJ	49 J
74-83-9	Bromomethane	UG/M3	4.3 UJ	3.5 J	3.5 J	0.65 UJ	1.8 J	0.56 UJ	0.7 UJ	3.3 UJ	1.8 UJ
75-00-3	Chloroethane	UG/M3	2.8 J	0.39 UJ	0.42 UJ	0.44 UJ	0.9 UJ	0.38 UJ	0.47 UJ	2.2 UJ	1.2 UJ
75-69-4	Freon 11	UG/M3	6.3 UJ	2.3 J	2.3 J	2.2 J	4.3 J	5.2 J	33 J	8.2 J	7.3 J
64-17-5	Ethanol	UG/M3	17 J	11 J	18 J	13 J	12 J	50 J	13 J	26 J	14 J
76-13-1	Freon 113	UG/M3	8.6 UJ	1.1 UJ	1.2 UJ	1.3 UJ	2.6 UJ	1.1 UJ	1.4 UJ	6.6 UJ	3.6 UJ
75-35-4	1,1-Dichloroethene	UG/M3	4.4 UJ	0.59 UJ	0.64 UJ	0.67 UJ	1.4 UJ	0.57 UJ	0.71 UJ	3.4 UJ	2.1 J
67-64-1	Acetone	UG/M3	58 J	26 J	49 J	21 J	140 J	750 J	38 J	76 J	120 J
67-63-0	2-Propanol	UG/M3	14 UJ	3 J	4.8 J	2.2 J	6.5 J	9.4 J	2.2 UJ	10 J	5.8 UJ
75-15-0	Carbon Disulfide	UG/M3	17 UJ	19 J	4.3 J	2.6 UJ	12 J	3.5 J	2.8 UJ	26 J	25 J
75-09-2	Methylene Chloride	UG/M3	7.8 UJ	3.4 J	2.7 J	2.7 J	7.4 J	2.9 J	1.2 UJ	5.9 UJ	3.2 UJ
1634-04-4	Methyl tert-butyl ether	UG/M3	22 J	2.7 UJ	2.9 UJ	3 UJ	6.2 UJ	2.6 UJ	3.2 UJ	15 UJ	8.4 UJ
156-60-5	trans-1,2-Dichloroethene	UG/M3	22 UJ	3 UJ	3.2 UJ	3.3 UJ	6.8 UJ	2.8 UJ	3.5 UJ	17 UJ	9.3 UJ
110-54-3	Hexane	UG/M3	20 UJ	8.6 J	11 J	3 UJ	43 J	5 J	3.2 UJ	15 UJ	33 J
75-34-3	1,1-Dichloroethane	UG/M3	4.5 UJ	0.6 UJ	0.65 UJ	0.68 UJ	1.4 UJ	0.58 UJ	0.72 UJ	4 J	6.7 J
78-93-3	2-Butanone (Methyl Ethyl Ketone	UG/M3	16 UJ	4.7 J	8.8 J	4.1 J	33 J	92 J	5.5 J	21 J	40 J
156-59-2	cis-1,2-Dichloroethene	UG/M3	200 J	0.59 UJ	3.2 J	0.67 UJ	1.4 UJ	0.57 UJ	0.71 UJ	100 J	22 J
109-99-9	Tetrahydrofuran	UG/M3	16 UJ	2.2 UJ	2.4 UJ	2.5 UJ	5 UJ	2.1 UJ	2.6 UJ	13 UJ	6.9 UJ
67-66-3	Chloroform	UG/M3	5.5 UJ	0.73 UJ	0.79 UJ	0.82 UJ	1.7 UJ	9.3 J	0.87 UJ	11 J	7.5 J
71-55-6	1,1,1-Trichloroethane	UG/M3	6.1 UJ	0.81 UJ	6.1 J	0.92 UJ	15 J	4 J	18 J	310 J	360 J
110-82-7	Cyclohexane	UG/M3	19 UJ	2.6 UJ	2.8 UJ	2.9 UJ	5.9 UJ	2.5 UJ	3.1 UJ	15 UJ	8.4 J
56-23-5	Carbon Tetrachloride	UG/M3	7 UJ	0.94 UJ	1.4 J	1 UJ	2.2 UJ	2.9 J	1.1 UJ	5.4 UJ	2.9 UJ
71-43-2	Benzene	UG/M3	8.3 J	2.9 J	3.7 J	2.7 J	16 J	2.3 J	0.98 J	8.5 J	24 J
107-06-2	1,2-Dichloroethane	UG/M3	4.5 UJ	0.6 UJ	0.65 UJ	0.68 UJ	1.4 UJ	0.58 UJ	0.72 UJ	3.5 UJ	1.9 UJ
142-82-5	Heptane	UG/M3	23 UJ	4.9 J	5 J	3.4 UJ	15 J	4.8 J	3.7 UJ	18 UJ	14 J
79-01-6	Trichloroethene	UG/M3	63 J	0.8 UJ	5.2 J	0.9 UJ	7.2 J	0.77 UJ	0.96 UJ	110 J	26 J
78-87-5	1,2-Dichloropropane	UG/M3	5.2 UJ	0.69 UJ	0.74 UJ	0.78 UJ	1.6 UJ	0.66 UJ	0.83 UJ	4 UJ	2.2 UJ
123-91-1	1,4-Dioxane	UG/M3	20 UJ	2.7 UJ	2.9 UJ	3 UJ	6.2 UJ	2.6 UJ	3.2 UJ	15 UJ	8.4 UJ
75-27-4	Bromodichloromethane	UG/M3	38 UJ	5 UJ	5.4 UJ	5.6 UJ	11 UJ	4.8 UJ	6 UJ	29 UJ	16 UJ
10061-01-5	cis-1,3-Dichloropropene	UG/M3	5.1 UJ	0.68 UJ	0.73 UJ	0.76 UJ	1.6 UJ	0.65 UJ	0.81 UJ	3.9 UJ	2.1 UJ
108-10-1	4-Methyl-2-pentanone	UG/M3	23 UJ	3 UJ	3.3 UJ	3.4 UJ	7 UJ	6.1 J	3.7 UJ	18 UJ	9.6 UJ
108-88-3	Toluene	UG/M3	12 J	12 J	20 J	10 J	14 J	13 J	2.1 J	30 J	17 J
10061-02-6	trans-1,3-Dichloropropene	UG/M3	5.1 UJ	0.68 UJ	0.73 UJ	0.76 UJ	1.6 UJ	0.65 UJ	0.81 UJ	3.9 UJ	2.1 UJ
79-00-5	1,1,2-Trichloroethane	UG/M3	6.1 UJ	0.81 UJ	0.88 UJ	0.92 UJ	1.9 UJ	0.78 UJ	0.98 UJ	4.7 UJ	2.6 UJ
127-18-4	Tetrachloroethene	UG/M3	2400 J	17 J	250 J	1.6 J	580 J	6.9 J	22 J	1900 J	1300 J
591-78-6	2-Hexanone	UG/M3	23 UJ	3 UJ	3.3 UJ	3.4 UJ	7 UJ	11 J	3.7 UJ	18 UJ	9.6 UJ

Consolidated Edison Farrington Street Validated Soil Gas Analytical Data SDG: 0605509R1		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SG-9 (8') 0605509R1-16A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-10 (3') 0605509R1-06A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-10 (8') 0605509R1-05A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-11 (3') 0605509R1-08A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-11 (8') 0605509R1-07A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-12 (3') 0605509R1-02A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-12 (8') 0605509R1-01A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-13 (3') 0605509R1-10A 3' ATL 0605509R1 AIR 5/17/2006 7/21/2006	SG-13 (8') 0605509R1-09A 8' ATL 0605509R1 AIR 5/17/2006 7/21/2006
CAS NO.	COMPOUND	UNITS:									
	VOLATILES										
124-48-1	Dibromochloromethane	UG/M3	48 UJ	6.3 UJ	6.8 UJ	7.2 UJ	14 UJ	6.1 UJ	7.6 UJ	36 UJ	20 UJ
106-93-4	1,2-Dibromoethane (EDB)	UG/M3	8.6 UJ	1.1 UJ	1.2 UJ	1.3 UJ	2.6 UJ	1.1 UJ	1.4 UJ	6.4 J	3.6 UJ
108-90-7	Chlorobenzene	UG/M3	5.2 UJ	0.68 UJ	0.74 UJ	0.77 UJ	1.6 UJ	0.66 UJ	0.82 UJ	4.2 J	2.2 UJ
100-41-4	Ethyl Benzene	UG/M3	4.9 UJ	1.7 J	5.2 J	3.4 J	26 J	2.6 J	1.1 J	6 J	8.3 J
108-38-3/106-4	m,p-Xylene	UG/M3	4.9 UJ	4.6 J	10 J	10 J	86 J	8 J	0.78 UJ	19 J	15 J
95-47-6	o-Xylene	UG/M3	4.9 UJ	1.7 J	3.9 J	4 J	38 J	4 J	0.78 UJ	17 J	14 J
100-42-5	Styrene	UG/M3	4.8 UJ	0.63 UJ	1.4 J	0.72 UJ	1.4 UJ	0.99 J	0.76 UJ	6.3 J	13 J
75-25-2	Bromoform	UG/M3	58 UJ	7.7 UJ	8.3 UJ	8.7 UJ	18 UJ	7.4 UJ	9.2 UJ	44 UJ	24 UJ
98-82-8	Cumene	UG/M3	28 UJ	3.7 UJ	4 UJ	4.1 UJ	8.4 UJ	3.5 UJ	4.4 UJ	21 UJ	12 UJ
79-34-5	1,1,2,2-Tetrachloroethane	UG/M3	7.7 UJ	1 UJ	1.1 UJ	1.2 UJ	2.3 UJ	0.99 UJ	1.2 UJ	5.9 UJ	3.2 UJ
103-65-1	Propylbenzene	UG/M3	28 UJ	3.7 UJ	4 UJ	4.1 UJ	8.4 UJ	3.5 UJ	4.4 UJ	21 UJ	12 UJ
622-96-8	4-Ethyltoluene	UG/M3	28 UJ	3.7 UJ	4.6 J	4.1 UJ	8.4 UJ	4 J	4.4 UJ	36 J	30 J
108-67-8	1,3,5-Trimethylbenzene	UG/M3	5.5 UJ	0.73 UJ	1.7 J	1 J	1.7 UJ	2.1 J	0.88 UJ	33 J	28 J
95-63-6	1,2,4-Trimethylbenzene	UG/M3	5.5 UJ	1.7 J	5.2 J	3.4 J	2 J	6.7 J	0.88 UJ	53 J	48 J
541-73-1	1,3-Dichlorobenzene	UG/M3	6.7 UJ	0.9 UJ	0.97 UJ	1 UJ	2 UJ	0.86 UJ	1.1 UJ	21 J	2.8 UJ
106-46-7	1,4-Dichlorobenzene	UG/M3	6.7 UJ	0.9 UJ	0.97 UJ	1 UJ	2 UJ	0.86 UJ	1.1 UJ	23 J	2.8 UJ
100-44-7	alpha-Chlorotoluene	UG/M3	5.8 UJ	0.77 UJ	0.83 UJ	0.87 UJ	1.8 UJ	0.74 UJ	0.93 UJ	4.4 UJ	2.4 UJ
95-50-1	1,2-Dichlorobenzene	UG/M3	6.7 UJ	0.9 UJ	0.97 UJ	1 UJ	2 UJ	0.86 UJ	1.1 UJ	30 J	2.8 UJ
120-82-1	1,2,4-Trichlorobenzene	UG/M3	42 UJ	5.5 UJ	6 UJ	6.2 UJ	13 UJ	R	R	140 J	17 UJ
87-68-3	Hexachlorobutadiene	UG/M3	60 UJ	7.9 UJ	8.6 UJ	9 UJ	18 UJ	7.7 UJ	9.5 UJ	76 J	25 UJ
565-59-3	2,3-Dimethylpentane	UG/M3	23 UJ	3 UJ	3.3 UJ	3.4 UJ	7 UJ	3 UJ	3.7 UJ	18 UJ	9.6 UJ
107-83-5	2-Methylpentane	UG/M3	20 UJ	5.2 J	5.3 J	3 UJ	16 J	2.5 UJ	3.2 UJ	15 UJ	14 J
496-11-7	Indan	UG/M3	27 UJ	3.6 UJ	3.9 UJ	4.1 UJ	8.3 UJ	3.5 UJ	4.3 UJ	21 UJ	16 J
95-13-6	Indene	UG/M3	27 UJ	3.5 UJ	3.8 UJ	4 UJ	8.1 UJ	3.4 UJ	4.2 UJ	20 UJ	11 UJ
78-78-4	Isopentane	UG/M3	71 J	41 J	110 J	7 J	82 J	19 J	4.5 J	150 J	59 J
91-20-3	Naphthalene	UG/M3	29 UJ	3.9 UJ	4.2 UJ	4.4 UJ	9 UJ	R	R	22 UJ	12 UJ
110-02-1	Thiophene	UG/M3	19 UJ	2.6 UJ	2.8 UJ	2.9 UJ	5.9 UJ	2.5 UJ	3.1 UJ	15 UJ	8 UJ
107-05-1	3-Chloropropene	UG/M3	18 UJ	2.3 UJ	2.5 UJ	2.6 UJ	5.4 UJ	2.2 UJ	2.8 UJ	13 UJ	7.3 UJ
540-84-1	2,2,4-Trimethylpentane	UG/M3	26 UJ	3.5 UJ	3.8 UJ	3.9 UJ	8 UJ	3.4 UJ	4.2 UJ	20 UJ	11 UJ