File: Substations-Cleanup
Maspeth Substation

Con Edison memorandum

March 7, 1996

TO: Robert Mele
Director
Real Estate

FROM: Karel A. Konrad
Acting Director
Remediation Section
Environmental Affairs

SUBJECT: Maspeth Substation

Environmental Affairs (EA) has performed a detailed environmental assessment at the retired Maspeth Substation. Based on this assessment, we prepared technical specifications for cleanup of PCB and oil contamination and abatement of asbestos containing material (ACM). Asbestos abatement and PCB and oil cleanup in the substation building has been completed. Asbestos abatement outside the building has been completed, whereas PCB and oil cleanup ~~and asbestos abatement~~ outside the building has been partially completed. The remaining cleanup, involving removal of PCB contaminated soil, washing or removal of a concrete trench, and washing of a concrete pad, is underway. We anticipate that this final cleanup will be completed by March 12 and that the results of confirmation samples to verify cleanup completion will be available by March 14. We will inform you of these results. If the results meet EPA cleanup standards, cleanup will be considered complete. We will then confirm that the property is environmentally acceptable for sale and send you an addendum to the enclosed report. If the results exceed EPA cleanup standards in any area(s), additional cleanup and successful confirmation testing will be required in those areas before we can state that the property is environmentally acceptable for sale.

It should be noted that although friable asbestos has been removed, non-friable transite panels and possibly other non-friable ACM remains. In addition, lead paint chips may remain on the floor or peeling from the walls and ceiling of the building. The purchaser of the property should be made aware that such materials are present.

A detailed report describing our environmental assessment and remediation is attached.

If you have any questions, please contact me (718-204-4208) or Barry Cohen (718-204-4236 or pager no. 917-616-1525).

BHC/er

Attachment

cc: Candida Canizio
Lou Carnevale (w/o enclosure)
Barry Cohen
F:\memos\maspeth.bhc

ENVIRONMENTAL ASSESSMENT
AND
REMEDIATION AT MASPETH SUBSTATION

Environmental Affairs
March 1996

I. INTRODUCTION AND BACKGROUND

This report describes the results of the environmental assessment and remediation performed at the retired Maspeth Substation, located at Rust Street and 58th Street, Queens, New York. The substation contained oil-filled and other electrical equipment both inside the substation building and in vaults in the yard north of the building.

II. ENVIRONMENTAL ASSESSMENT

Con Edison's Environmental Affairs Department performed a detailed environmental assessment, including surface and subsurface soil sampling for PCBs and total petroleum hydrocarbons (TPH), PCB wipe sampling on solid surfaces, an asbestos-containing material (ACM) survey, and sampling of paint chips. The results of this assessment are provided in Exhibit 1 (PCB and TPH Sampling Locations and Results), Exhibit 2 (ACM Sampling Results), and Exhibit 3 (Paint Chip Sampling Results).

The Environmental assessment indicated

(1) PCB contamination in soil, an outdoor transformer vault (#6), an electrical manhole in the yard, and an underground cable vault inside the building;

(2) petroleum hydrocarbon contamination in the other outdoor transformer vaults;

(3) ACM inside the substation building and in the transite walls enclosing the outdoor transformer vaults; and

(4) the presence of lead in paint chips, although the paint chips were not hazardous waste based on the Toxicity Characteristic Leaching Procedure (TCLP) for metals.

III. REMEDIATION

Based on the results of the environmental assessment, Con Edison's Environmental Affairs Department prepared the "Technical Specification for Cleanup of Maspeth Substation", dated June 1991 (Exhibit 4) and the "Technical Specification for Asbestos Abatement of Maspeth Substation", dated March 1992 (Exhibit 5). Exhibit 4 addresses PCB and petroleum hydrocarbon remediation requirements, whereas Exhibit 5 addresses asbestos abatement requirements.

A. PCB and Petroleum Hydrocarbon Remediation

Exhibit 4 requires that PCBs be remediated to EPA's PCB Spill Cleanup Standards for residential areas, which are 10 ppm in soil and 10 micrograms per 100 square centimeters (ug/100 sq. cm.) on solid surfaces. Soil remediation requirements are specified in Section 2.1.1 and Figure 2 of Exhibit 4. PCB concentrations ranges found in the various soil areas to be excavated are summarized in Table 1 of Exhibit 4. All areas had PCB concentration less than 100 ppm except for Area E (see Figure 2), which had a maximum concentration of 3,590 ppm. Outdoor transformer vault, outdoor electrical manhole, and indoor cable vault cleanup requirements are described in Sections 2.1.2, 2.1.3, and 2.1.4, respectively. Outdoor transformer vault PCB results are summarized in Table 2, which indicates that only Vault #6 had PCB concentrations above EPA standards. However, Section 2.1.2 required cleanup of all outside vault areas for cosmetic purposes.

As described in Sections 2.1.3 and 2.1.4, electrical manhole no. 2549, located in the Substation yard, and the underground cable vault located in the Substation building, had PCB concentrations above the EPA standard of 10 ppm.

The outdoor transformer vaults, electrical manhole no. 2549, and the underground cable vault were cleaned by removing all liquid and solid material and washing and rinsing solid surfaces. In addition, the walls of the outdoor transformer vaults were demolished and disposed of. The results of post-cleanup PCB wipe samples are provided in Exhibit 6 for electrical manhole no. 2549 and Exhibit 7 for the underground cable vault. The data indicate results below the EPA cleanup standard of 10 ug/100 sq. cm. Post-cleanup samples taken in the PCB contaminated area of Vault #6 indicated all results below the 10 ug/100 sq. cm. cleanup standards (see "V6" sample results in Exhibit 8). However, this area will be recleaned and resampled after yard soil excavation is completed.

In addition to the aforementioned areas addressed in Exhibit 4, there is a concrete trench located outside the north wall of the Substation building in the vault area. Since debris within the trench contained PCBs greater than 10 ppm (see "TR" sample results in Exhibit 8), it must be cleaned by removing all debris and either double washing and rinsing the concrete or excavating the trench entirely with some underlying soil. In either case, post-

cleanup samples will be analyzed to verify compliance with EPA's cleanup standards.

After yard soil, vault #6, and trench cleanup is completed, an addendum to this report will be prepared.

B. Asbestos Abatement

In accordance with the technical specification presented as Exhibit 5, the following abatement activities have been completed:

1. Removal of transite front walls of outdoor transformer vaults (see Section 2.1.1 of Exhibit 5);

2. Removal of overhead conduit insulation (Section 2.1.3);

3. Removal of boiler insulation (Section 2.1.4); and

4. General decontamination and cleanup of all interior floors and surfaces (Section 2.1.2), including removal of dust and debris suspected to contain ACM and lead paint.

In addition, all arc-proof taping has been removed. To the best of our knowledge, there is no friable ACM remaining in the substation, although non-friable transite panels and possibly other non-friable ACM remains. Furthermore, there may be lead paint chips on the floor or peeling from the walls and ceiling. Although we do not believe the remaining ACM and lead paint present a hazard in their current form, the purchaser of the property should be made aware of their presence.

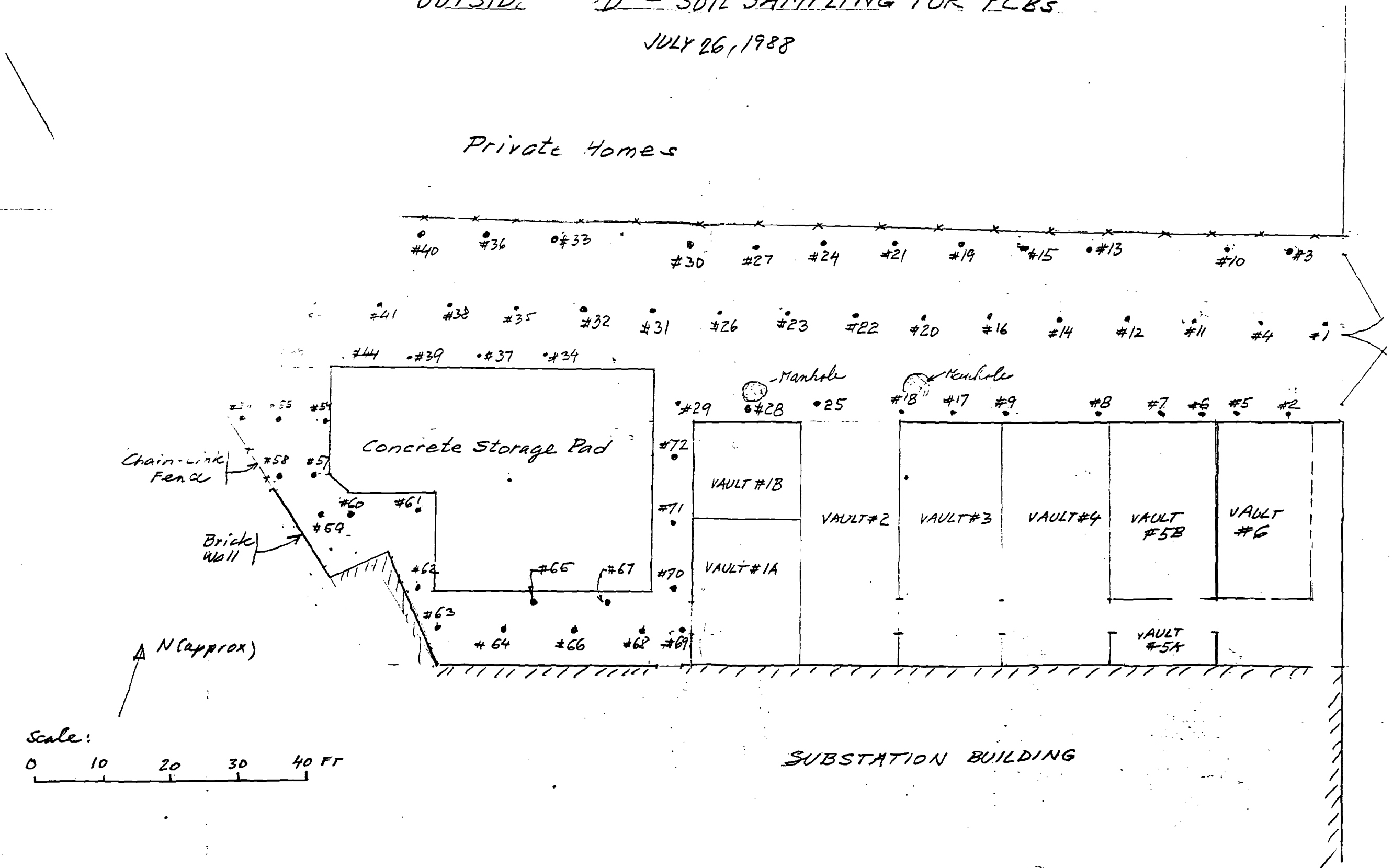
EXHIBIT 1

PCB AND TPH SAMPLING LOCATIONS AND RESULTS

PETE'S SUBSTATION

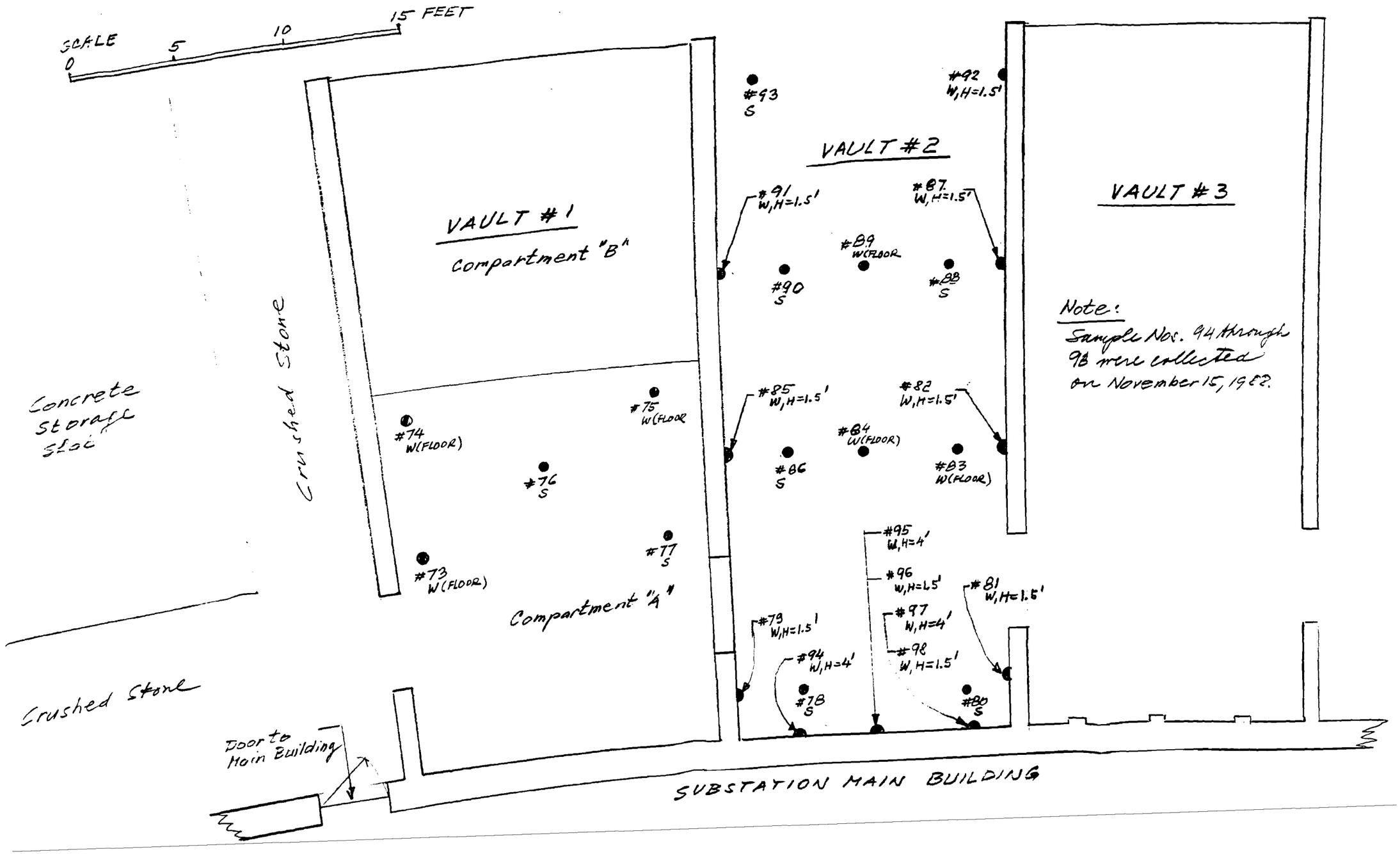
OUTSIDE 2D - SOIL SAMPLING FOR PCBs

JULY 26, 1988



OUTDOOR TRANSFORMER VAULTS - PCB SAMPLING

July 26, 1988



Note:
Sample Nos. 94 through 98 were collected on November 15, 1988.

TION

- PCB SAMPLING

SCA
D

EASTERN GATE

#129
W

CINDER BLOCK
MOAT WALL
(2'H)

#125
W (Oily Spot)

#126
S

#117
W, H=1.5'

#133
S

#130
W

#131
S

#128
W

VAULT #2

VAULT #4

VAULT #5

VAULT #6

#124
W
(Oily Spot)

#112
S

#111
W, H=2'

#106
W, H=2'

#119
W, H=1'

#121
S

#116
W, H=1'

#127
W

#122
W, H=4'

#102
W, H=1.5'

#99
W, H=1.5'

#101
W, H=5'

#100
W, H=4'

#104
W, H=1.5

#103
W, H=4'

#105
W, H=2'

#115
W
(FIRE AREA)

#114
W
(FIRE AREA)

#120
S

#132
S

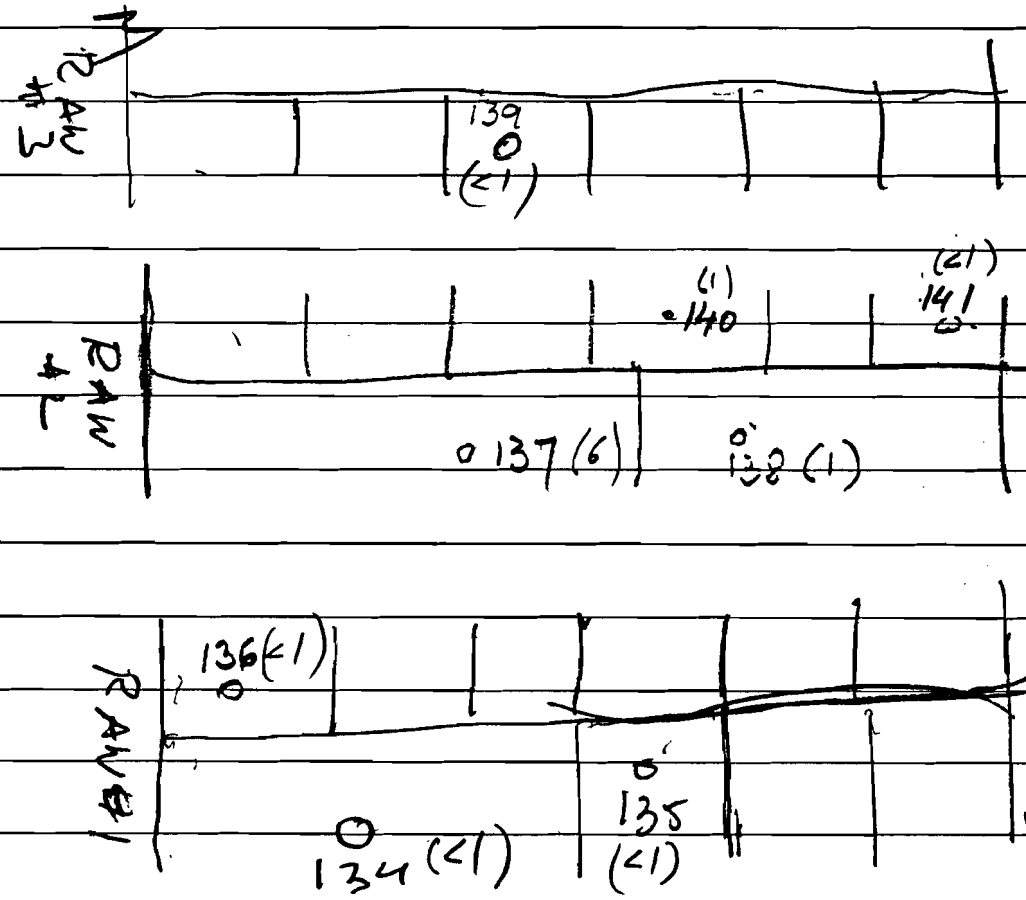
#123
W, H=4'

Door to Main
Building

FIRE MARKINGS ON THIS WALL

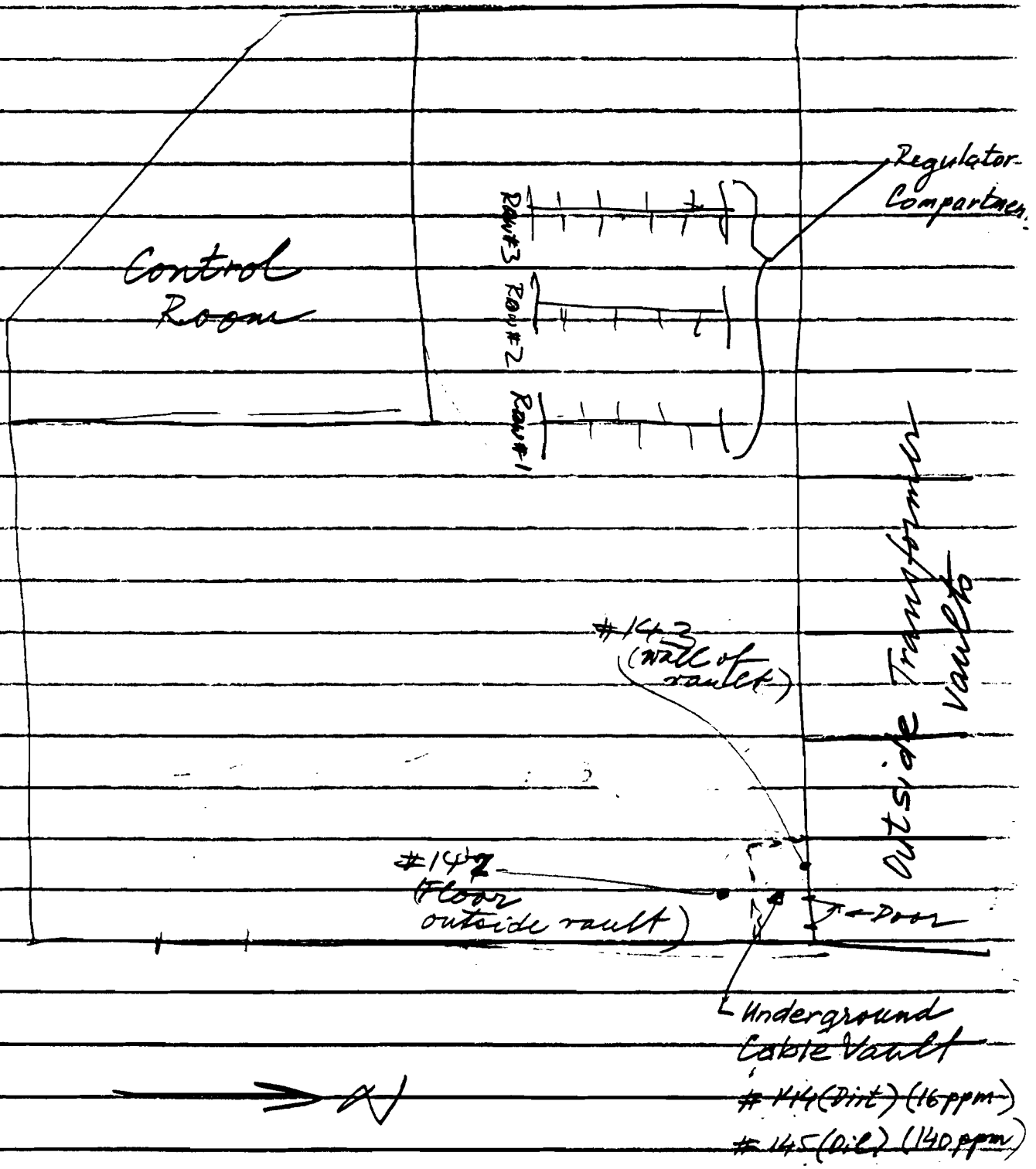
SUBSTATION MAIN BUILDING

Maspeth S/S Sampling Inside the building
11/15/88
Regulator Compartments (all Wiped)



Maspeth Substation – Underground Cable Vault

(11/15/88)



Nazareth S/S Sampling Results

Sample #	Date	Type	Location	PCB Results		Lab Reports
1	7/28/88	S	Yard - Stone/Soil (Surface)	4	ppm ✓	SA2550, Dated 10/24/88, Konrad (CST
2		S		21	✓	
3		S		62	✓	
4		S		17	✓	
5		S		12	✓	
6		S		17	✓	
7		S		10	✓	
8		S		<1	✓	
9		S		2	✓	
10		S		26	✓	
11		S		9	✓	
12		S		3	✓	
13		S		89	✓	
14		S		<1	✓	
15		S		19	✓	
16		S		1	✓	
17		S		<1	✓	
18		S		<1	✓	
19		S		63	✓	
20		S		1	✓	
21		S		3540	✓	
22		S		9	✓	
23		S		5	✓	
24		S		110	✓	
25		S		3	✓	

Sample #	Date	Type	Location	Results		Lab Report
26	7/21/88	S	Yard - Stone (Soil Surface)	8	ppm ✓	SA2550, Dated 10/24/88, Konrad (CSD)
27		S		49	✓	
28		S		2	✓	
29		S		3	✓	
30		S		35	✓	
31		S		3	✓	
32		S		13	✓	
33		S		9	✓	
34		S		13	✓	
35		S		14	✓	
36		S		28	✓	
37		S		71	✓	
38		S		3	✓	
39		S		4	✓	
40		S		30	✓	
41		S		3	✓	
42		S		4	✓	
43		S		3	✓	
44		S		8	✓	
45		S		3	✓	
46		S		4	✓	
47		S		5	✓	
48		S		3	✓	
49		S		4	✓	
50		S		3	✓	

Sample No.	Date	Type	Location	Results		Lab Reports
51	7/26/88	S	Yard - Soil Stone (Surface)	43 ppm	-	SA2550, Dated 10/24/88, Konrad (CSD)
52		S		1	✓	
53		S		2	✓	
54		S		3	✓	
55		S		26	✓	
56		S		16	✓	
57		S		18	✓	
58		S		12	✓	
59		S		<1	✓	
60		S		7	✓	
61		S		10	✓	
62		S		97	✓	
63		S		17	✓	
64		S		68	✓	
65		S		6	✓	
66		S		8	✓	
67		S		4	✓	
68		S		9	✓	
69		S		1	✓	
70		S		2	✓	
71		S		3	✓	
72		S		<1	✓	
73		W	Vault #1 - Floor	4	mg/100cm² ✓	SA2550 ; Date 10/18/88 ; Konrad (CSD)
74		W		4	✓	
75		W		3	✓	

Sample No.	Date	Type	Location	Result	Lab Report
76	7/26/88	S	Vault #1 - Floor	5 ppm	SA2550, Dated 10/24/88, Konrad (CSD)
77		S	↓	5 ppm	↓
78		S	Vault #2 - Floor	4 ppm	
79		W	" - W. Wall	28 mg/100cm²	SA2550; Dated 10/18/88; Konrad (CSD)
80		S	" - Floor	6 ppm	"
81		W	" - E. Wall	2 mg/100cm²	SA2550; Dated 10/18/88; Konrad (CSD)
82		W	" - E. Wall	1 ✓	↓
83		W	" - Floor	2 ✓	
84		W	" - Floor	2 ✓	
85		W	" - W. Wall	2 ✓	
86		S	" - Floor	3 ppm	"
87		W	" - E. Wall	2 mg/100cm²	SA2550; Dated 10/18/88; Konrad (CSD)
88		S	" - Floor	1 ppm	"
89		W	" - Floor	2 mg/100cm²	SA2550; Dated 10/18/88; Konrad (CSD)
90		S	" - Floor	2 ppm	"
91		W	" - W. Wall	2 mg/100cm²	SA2550; Dated 10/18/88; Konrad (CSD)
92		W	" - E. Wall	3 mg/100cm²	↓
93	↓	S	" - Floor	2 ppm	"
94	11/18/88	W	" - S. Wall	≤1 µg/100cm²	SA2915 - Dated 12/23/88 - Konrad (CSD)
95		W	" - S. Wall	≤1	
96		W	" - S. Wall	≤1	
97		W	" - S. Wall	≤1	
98		W	" - S. Wall	≤1	
99		W	Vault #3 - W. Wall	≤1	
100		W	" - S. Wall	≤1	

Sample No.	Date	Type	Location	Result	Lab Report
101	11/15/88	W	Vault #3 - S. Wall	≤1 µg/100cm²	SA2915, Dated 12/23/88, Konrad (CSD)
102		W	" - S. Wall	22	
103		W	" - S. Wall	≤1	
104		W	" - S. Wall	4	
105		W	" - E. Wall	≤1	
106		W	" - E. Wall	≤1	
107		W	" - E. Wall	≤1	
108		W	" - N. Wall	≤1	
109		W	" - N. Wall	≤1	
110		W	" - W. Wall	≤1	
111		W	" - W. Wall	≤1	
112		S	" - Floor	≤10 ppm	SA2893, Dated 12/21/88, Konrad (CSD)
113		S	" - Floor	≤10 ppm	
114		W	Vault #4 - S. Wall	≤1 µg/100cm²	SA2915, Dated 12/23/88, Konrad (CSD)
115		W	" - S. Wall	≤1	
116		W	" - E. Wall	≤1	
117		W	" - E. Wall	12	
118		W	" - W. Wall	22	
119		W	" - W. Wall	4	
120		S	" - Floor	≤10 ppm	SA2893, Dated 12/21/88, Konrad (CSD)
121		S	" - Floor	≤10 ppm	
122		W	Vault #5 - N. Wall & S. Over	≤1 µg/100cm²	SA2915, Dated 12/23/88, Konrad (CSD)
123		W	" - E. Wall & S. Over	2	
124		W	" - E. Wall & N. Over	17	
125		W	" - W. Wall & N. Over	5	

Sample No./Date	Type	Location	Result	Lab Report
126 11/15/88	S	Vault #5 - N. Area Floor	≤10 ppm	SA2893, Dated 12/21/88, Konrad (CSD)
127	W	Vault #6 - S. Wall of N. Area	6 µg/100cm²	SA2915, Dated 12/23/88, Konrad (CSD)
128	W	" - E. Wall of N. Area	28	
129	W	" - N. Wall of N. Area	4	
130	W	" - W. Wall of N. Area	16	
131	S	" - N. Area Floor	16 ppm	SA2893, Dated 12/21/88, Konrad (CSD)
132	S	" - S. Area Floor	≤10 ppm	
133	S	" - E. Area Floor	10 ppm	
134	W	Regulator Compartment	(<1 µg/100cm²	SA2915, Dated 12/23/88, Konrad (CSD)
135	W		<1	
136	W		<1	
137	W		6	
138	W		1	
139	W		<1	
140	W		1	
141	W		<1	
142	W	Floor Outside Cable Vault	8	
143	W	Wall of Cable Vault	11	
144	S	Cable Vault	16 ppm	SA 2893, Dated 12/21/88, Konrad (CSD)
145	Oil	Cable Vault	140 ppm	
MSS5776	Water	Roll Box # 5776	<10 ppm	SA 1408; Dated 6/9/89; Blackmon (CEA)
MSC2549	Sludge	M.H. # 2549	16 ppm	

S = soil sample

W = wipe sample

SA 2893 — 1 Oil, 9 Soils
B priority

POWER GENERATION SERVICES
FIELD SAMPLING SECTION

FIELD SAMPLING REPORT

SA 2913
42 Wipes
C priority

Date: 11/15/88 Time: 0900 Job Number: 473

Requested by: K. KONRAD Date: 11/14/88 Phone #:

Type of test: WIPES, SOIL, LIQUID SAMPLES Account No.: D 3387

Location: MASDETH SUB STA. — VARIOUS LOCATIONS

Instructions for Sampling: STD SAMPLING PROCEDURES

Field Observations and Comments: STATION ABANDONED AND IN A DEMOLISHED STATE — DEBRIS STREWN ABOUT, INSIDE AND OUT

Total # of Samples: 52 (#94-145)
1 OIL LIQUID, 9 SOILS, 42 WIPES + 2 BLANKS

Lab. Analysis Required: PCB CONTENT

Rec'd in Lab.By: E Bullens Time: 01:27 PM Date: 11-16-88

Copies To: ~~G. Corcoran~~ D. TAGGART

E. WALLACE — D. PERUGINI
Technician on job

D. TAGGART
Supervisor

Copy 1 File Copy 2-Lab. Copy 3-Field

CONSOLIDATED EDISON

Date: 12-23-88

Batch-Sequence-No: 811201
Job-Number: SA291$

Date-Received: 12-14-88
Account-No.: 83885

Submitted: K. KONNO
Report-To: CSD
Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	ug/100cm^2
811201	#114 MASPETH SUB STA.	WIPES SA291$	NONE	<=1.
811202	#115 MASPETH SUB STA.	WIPES	NONE	<=1.
811203	#116 MASPETH SUB STA.	WIPES	1260	<=1.
811204	#117 MASPETH SUB STA.	WIPES	1254	12.
811205	#104 MASPETH SUB STA.	WIPES	NONE	<=1.
811206	#107 MASPETH SUB STA.	WIPES	1254	<=1.
811207	#108 MASPETH SUB STA.	WIPES	NONE	<=1.
811208	#109 MASPETH SUB STA.	WIPES	NONE	<=1.
811209	#110 MASPETH SUB STA.	WIPES	NONE	<=1.
811210	#111 MASPETH SUB STA.	WIPES	NONE	<=1.

APPROVED BY: [signature]

CONSOLIDATED EDISON

Date: 12-23-88

Batch-Sequence-No: 811201
Job-Number: 8A2719

Date-Received: 12-14-88
Account-No.: 03095

Submitter: K. KONRAD
Report-To: CSD

Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	ugs/100cm^2
811211	#100 MASPETH SUB STA.	WIPES	NONE	<=1.
811212	#101 MASPETH SUB STA.	WIPES	1260	<=1.
811213	#102 MASPETH SUB STA.	WIPES	1260	22.
811214	#103 MASPETH SUB STA.	WIPES	1260	<=1.
811216	#104 MASPETH SUB STA.	WIPES	1260	4.
811217	#105 MASPETH SUB STA.	WIPES	1260	<=1.
811218	#94 MASPETH SUB STA.	WIPES	NONE	<=1.
811220	#95 MASPETH SUB STA.	WIPES	NONE	<=1.
811221	#96 MASPETH SUB STA.	WIPES	1260	<=1.
811222	#97 MASPETH SUB STA.	WIPES	NONE	<=1.

APPROVED BY:

CONSOLIDATED EDISON

Date: 12-23-88

Batch-Sequence-No: 811281
Job-Number: 942715

Date-Received: 12-14-88
Account-No.: P 83099

Submitter: K. KONRAD
Report-to: CSD

Division: AL - 1

PCB ANALYSIS

LAB	DESCRIPTION		AROCLOR	ugs/100cm^2
811223	#98 MASPETH SUB STA.	WIPES	1260	<=1.
811224	#99 MASPETH SUB STA.	WIPES	NONE	<=1.
811225	#118 MASPETH SUB STA.	WIPES	1254	22.
811226	#143 MASPETH SUB STA.	WIPES	1260	11.
811228	#142 MASPETH SUB STA.	WIPES	1260	8.
811229	#122 MASPETH SUB STA.	WIPES	1260	<=1.
811230	#123 MASPETH SUB STA.	WIPES	1254	2.
811231	#124 MASPETH SUB STA.	WIPES	1260	17.
811232	#125 MASPETH SUB STA.	WIPES	1254	5.
811233	#127 MASPETH SUB STA.	WIPES	1254	6.

APPROVED BY:

CONSOLIDATED EDISON

Date: 12-23-88

Batch-Sequence-No: 811201
Job-Number: 8A2919

Date-Received: 12-14-88
Account-No.: 83899

Submitter: K. KONRAD
Report-To: CSD

Division: AL - 1

PCB ANALYSIS

LSN	# DESCRIPTION		AROCLOR	ugs/100cm^2
811234	0128 MASPETH SUB STA.	WIPES	1254	28.
811235	0129 MASPETH SUB STA.	WIPES	1260	4.
811236	0130 MASPETH SUB STA.	WIPES	1260	16.
811237	0134 MASPETH SUB STA.	WIPES	1260	<=1.
811238	0135 MASPETH SUB STA.	WIPES	1260	<=1.
811239	0136 MASPETH SUB STA.	WIPES	1260	<=1.
811240	0137 MASPETH SUB STA.	WIPES	1260	6.
811242	0138 MASPETH SUB STA.	WIPES	1260	1.
811243	0139 MASPETH SUB STA.	WIPES	1260	<=1.
811244	0141 MASPETH SUB STA.	WIPES	1254	<=1.

APPROVED BY:

CONSOLIDATED EDISON

Date: 12-23-88

Batch-Sequence-No: 811281
Job-Number: SA2915

Date-Received: 12-14-88
Account-No.: 83895

Submitted: IC KONRAD
Report-To: CSD Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION	AROCLOR	ugs/100cm^2
811246	8719 WIPES HAGPETH SUB STA	1254	4.
811247	8149 WIPES HAGPETH SUB STA	1254	1.

APPROVED BY:

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: 808953
Job-Number: SA2550

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD

Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
808953	SAMPLE@:1 MASPETH	SOIL SA2550	1260	4.
808954	SAMPLE@:2 MASPETH	SOIL	1260	21.
808955	SAMPLE@:3 MASPETH	SOIL	1260	62.
808956	SAMPLE@:4 MASPETH	SOIL	1260	17.
808957	SAMPLE@:5 MASPETH	SOIL	1260	12.
808958	SAMPLE@:6 MASPETH	SOIL	1260	17.
808959	SAMPLE@:7 MASPETH	SOIL	1260	10.
808960	SAMPLE@:8 MASPETH	SOIL	1260	<=1.
808961	SAMPLE@:9 MASPETH	SOIL	1254	2.
808962	SAMPLE@:10 MASPETH	SOIL	1260	26.

APPROVED BY

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: 808953
Job-Number: SA2550

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
808963	SAMPLE#:11 MASPETH	SOIL	1260	9.
808964	SAMPLE#:12 MASPETH	SOIL	1260	3.
808965	SAMPLE#13 MASPETH	SOIL	1260	89.
808966	SAMPLE#14 MASPETH	SOIL	1260	<=1.
808967	SAMPLE#:15 MASPETH	SOIL	1260	19.
808968	SAMPLE#:16 MASPETH	SOIL	1260	1.
808969	SAMPLE#:17 MASPETH	SOIL	1260	<=1.
808970	SAMPLE#:18 MASPETH	SOIL	1260	<=1.
808971	SAMPLE#:19 MASPETH	SOIL	1260	63.
808972	SAMPLE#:20 MASPETH	SOIL	1260	1.

APPROVED BY:

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: 888953
Job-Number: SA2550

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD

Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
888973	SAMPLE@:21 MASPETH	SOIL	1260	3540.
888974	SAMPLE@22 MASPETH	SOIL	1260	9.
888975	SAMPLE@:23 MASPETH	SOIL	1260	5.
888976	SAMPLE@24 MASPETH	SOIL	1254	110.
888977	SAMPLE@:25 MASPETH	SOIL	1260	3.
888978	SAMPLE@:26 MASPETH	SOIL	1260	8.
888979	SAMPLE@:27 MASPETH	SOIL	1260	49.
888980	SAMPLE@:28 MASPETH	SOIL	1260	2.
888981	SAMPLE@:29 MASPETH	SOIL	1260	3.
888982	SAMPLE@30 MASPETH	SOIL	1260	35.

APPROVED BY:

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: 808953
Job-Number: SA2950

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
808983	SAMPLE@:31 MASPETH	SOIL	1260	3.
808984	SAMPLE@:32 MASPETH	SOIL	1260	13.
808985	SAMPLE@:33 MASPETH	SOIL	1260	9.
808986	SAMPLE@:34 MASPETH	SOIL	1254	13.
808987	SAMPLE@:35 MASPETH	SOIL	1260	14.
808988	SAMPLE@:36 MASPETH	SOIL	1260	28.
808989	SAMPLE@37 MASPETH	SOIL	1260	71.
808990	SAMPLE@:38 MASPETH	SOIL	1260	3.
808991	SAMPLE@:39 MASPETH	SOIL	1260	4.
808992	SAMPLE@:40 MASPETH	SOIL	1260	30.

APPROVED BY

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: J08953
Job-Number: SA2550

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD Division: AL -1

PCB ANALYSIS

LSN	DESCRIPTION		ARDCLOR	PPM
808993	SAMPLE@:41 MASPETH	SOIL	1260	3.
808995	SAMPLE@:42 MASPETH	SOIL	1260	4.
808996	SAMPLE@:43 MASPETH	SOIL	1260	3.
808997	SAMPLE@:44 MASPETH	SOIL	1260	8.
808998	SAMPLE@:45 MASPETH	SOIL	1260	3.
809000	SAMPLE@:46 MASPETH	SOIL	1260	4.
809001	SAMPLE@:47 MASPETH	SOIL SA2550	1260	5.
809002	SAMPLE@:48 MASPETH	SOIL	1260	3.
809003	SAMPLE@:49 MASPETH	SOIL	1260	4.
809004	SAMPLE@:50 MASPETH	SOIL	1260	3.

APPROVED BY:

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: 808953
Job-Number: SA2550

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD
Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
809005	SAMPLE@:51 MASPETH	SOIL	1242	43.
809006	SAMPLE@:52 MASPETH	SOIL	1260	1.
809007	SAMPLE@:53 MASPETH	SOIL	1260	2.
809008	SAMPLE@:54 MASPETH	SOIL	1260	3.
809009	SAMPLE@:55 MASPETH	SOIL	1260	26.
809010	SAMPLE@:56 MASPETH	SOIL	1260	16.
809011	SAMPLE@:57 MASPETH	SOIL	1260	18.
809012	SAMPLE@:58 MASPETH	SOIL	1260	12.
809013	SAMPLE@:59 MASPETH	SOIL	1260	<=1.
809014	SAMPLE@:60 MASPETH	SOIL	1260	7.

APPROVED BY:

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: 888953
Job-Number: SA2550

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
889015	SAMPLE@:61 MASPETH	SOIL	1260	10.
889016	SAMPLE@62 MASPETH	SOIL	1260	97.
889017	SAMPLE@:63 MASPETH	SOIL	1260	17.
889018	SAMPLE@:64 MASPETH	SOIL	1260	68.
889019	SAMPLE@:65 MASPETH	SOIL	1260	6.
889022	SAMPLE@:66 MASPETH	SOIL	1260	8.
889023	SAMPLE@:67 MASPETH	SOIL	1260	4.
889025	SAMPLE@:68 MASPETH	SOIL	1260	9.
889027	SAMPLE@:69 MASPETH	SOIL	1260	1.
889028	SAMPLE@:20 MASPETH	SOIL	1260	2.

APPROVED BY:

CONSOLIDATED EDISON

Date: 10-24-88

Batch-Sequence-No: 808953
Job-Number: SA2550

Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD

Division: AL — 1

PCB ANALYSIS

LSN	DESCRIPTION		ARDCLOR	PPM
809030	SAMPLE@:71 MASPETH	SOIL	1254	3.
809031	SAMPLE@:72 MASPETH	SOIL	1260	<=1.
809036	SAMPLE@:76 MASPETH	SOIL	1260	5.
809038	SAMPLE@:77 MASPETH	SOIL	1260	5.
809043	SAMPLE@:78 MASPETH	SOIL	1260	4.
809046	SAMPLE@80 MASPETH	SOIL	1260	6.
809064	SAMPLE@:86 MASPETH	SOIL	1260	3.
809067	SAMPLE@:88 MASPETH	SOIL	1260	1.
809073	SAMPLE@:90 MASPETH	SOIL	1260	2.
809080	SAMPLE@:93 MASPETH	SOIL	1260	2.

APPROVED BY:

SA 2550

POWER GENERATION SERVICES
FIELD SAMPLING SECTION

FIELD SAMPLING REPORT

Date: 7/26/88 Time: 9Am Job Number: 310

Requested by: K. KONRAD Date: 7/22 Phone #: 460-2882

Type of test: PCB'S SAMPLING Account No.: D3207

Location: MASPETH S/S YARD

Instructions For Sampling: SOILS & WIPE SAMPLES

Field Observations and Comments: —

SHEMATIC OF YARD WILL BE SUPPLIED BY DEPT OF OEA

Total # of Samples: 93 + 2 BLKS

Lab Analysis Required: PCB'S CONTENT

Rec'd in Lab. By: [redacted] Time: 2:00PM Date: 7/26/88

Copies To: C. Sorensen, DIST A, [redacted] K. KONRAD, J. PERI, D. TAGGART

D. [redacted] & W. SCHALAGE

Technician on Job Supervisor

Copy 1-File Copy 2-Lab. Copy 3-Field

88 JUL 26 PM 2:07

CHEMICAL DIRECTION

CONSOLIDATED EDISON

Date: 10-18-88

Batch-Sequence-No: 809032
Job-Number: SA2550
Date-Received: 10-10-88
Account-No.: 0000

Submitter: K.KONRAD
Report-To: CSD Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	ug/100cm^2
809032	SAMPLE@:75 MASPETH	WIPE SA2550	1260	4.
809033	SAMPLE@:74 MASPETH	WIPE	1260	4.
809035	SAMPLE@:75 MASPETH	WIPE	1260	3.
809045	SAMPLE@:79 MASPETH	WIPE	1254	28.
809048	SAMPLE@81 MASPETH	WIPE	1260	2.
809053	SAMPLE@:82 MASPETH	WIPE	1254	1.
809054	SAMPLE@:83 MASPETH	WIPE	1260	2.
809061	SAMPLE@:84 MASPETH	WIPE	1260	2.
809063	SAMPLE@85 MASPETH	WIPE	1260	2.
809065	SAMPLE@:82 MASPETH	WIPE	1260	2.

APPROVED BY:

CONSOLIDATED EDISON

Date: 10-18-88

Batch-Sequence-No: 889837
Job-Number: SA2958
Date-Received: 10-18-88
Account-No.: 8888

Submitter: KJKONRAD
Report-To: CSD Division: AL - 1

PCB ANALYSIS

LAB	DESCRIPTION		AROCLOR	ug/100cm^2
889870	SAMPLE#:89 MASPETH	WIPE	1242	2.
889876	SAMPLE#:91 MASPETH	WIPE	1260	2.
889878	SAMPLE#:92 MASPETH	WIPE	1242	3.
889882	BLANK 01 MASPETH	WIPE	NONE	<=1.
889883	BLANK 03 MASPETH	WIPE	NONE	<=1.

APPROVED BY

SA 2893 — 1 Oil, 9 Soils B priority

SA 2913 42 wipes C priority

POWER GENERATION SERVICES
FIELD SAMPLING SECTION

FIELD SAMPLING REPORT

Date: 11/15/88 Time: 0900 Job Number: 473

Requested by: K. KONRAD Date: 11/14/88 Phone #:

Type of test: WIPES, SOIL, LIQUID SAMPLES Account No.: D 3387

Location: MASPETH SUB STA. — VARIOUS LOCATIONS

Instructions For Sampling: STD SAMPLING PROCEDURES

Field Observations and Comments: STATION ABANDONED AND IN A DEMOLISHED STATE — DEBRIS STRAWN ABOUT, INSIDE AND OUT

Total # of Samples: 52 (#94-145)
1 OIL LIQUID, 9 SOILS, 42 WIPES + 2 BLANKS

Lab Analysis Required: PCB CONTENT

Rec'd in Lab.By: E Cullens Time: 01:27pm Date: 11-16-88

Copies To: ~~G. Corcoran~~ D. TAGGART

E. WALLACE — D. PEABODY
Technician on job

D. TAGGART
Supervisor

Copy 1 File Copy 2-Lab. Copy 3-Field

1

CONSOLIDATED EDISON

Date: 12-21-88

Batch-Sequence-No: 811258
Job-Number: SA2893

Date-Received: 12-14-88
Account-No.: 83899

Submitter: K. KONRAD
Report-To: CSD
Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
811250	#145 MASPETH SUB STA.	OIL SA2893	1254	140.
811251	#112 MASPETH SUB STA	SOIL	1254	<=10.
811252	#113 MASPETH SUB STA	SOIL	1260	<=10.
811253	#120 MASPETH SUB STA	SOIL	1260	<=10.
811254	#121 MASPETH SUB STA	SOIL	1260	<=10.
811255	#126 MASPETH SUB STA	SOIL	1260	<=10.
811256	#131 MASPETH SUB STA	SOIL	1260	16.
811257	#132 MASPETH SUB STA	SOIL	1260	<=10.
811258	#133 MASPETH SUB STA	SOIL	1260	10.
811259	#144 MASPETH SUB STA	SOIL	1260	16.

APPROVED BY:

Masbeth

CONSOLIDATED EDISON

Date: 06-09-89

Batch-Sequence-No: 904723
Job-Number: SA1408

Date-Received: 06-08-89
Account-No.: 0000

Submitter: R. BLACKMAN
Report-To: ENVIRONMENTAL DIV Division: AL - 1

PCB ANALYSIS

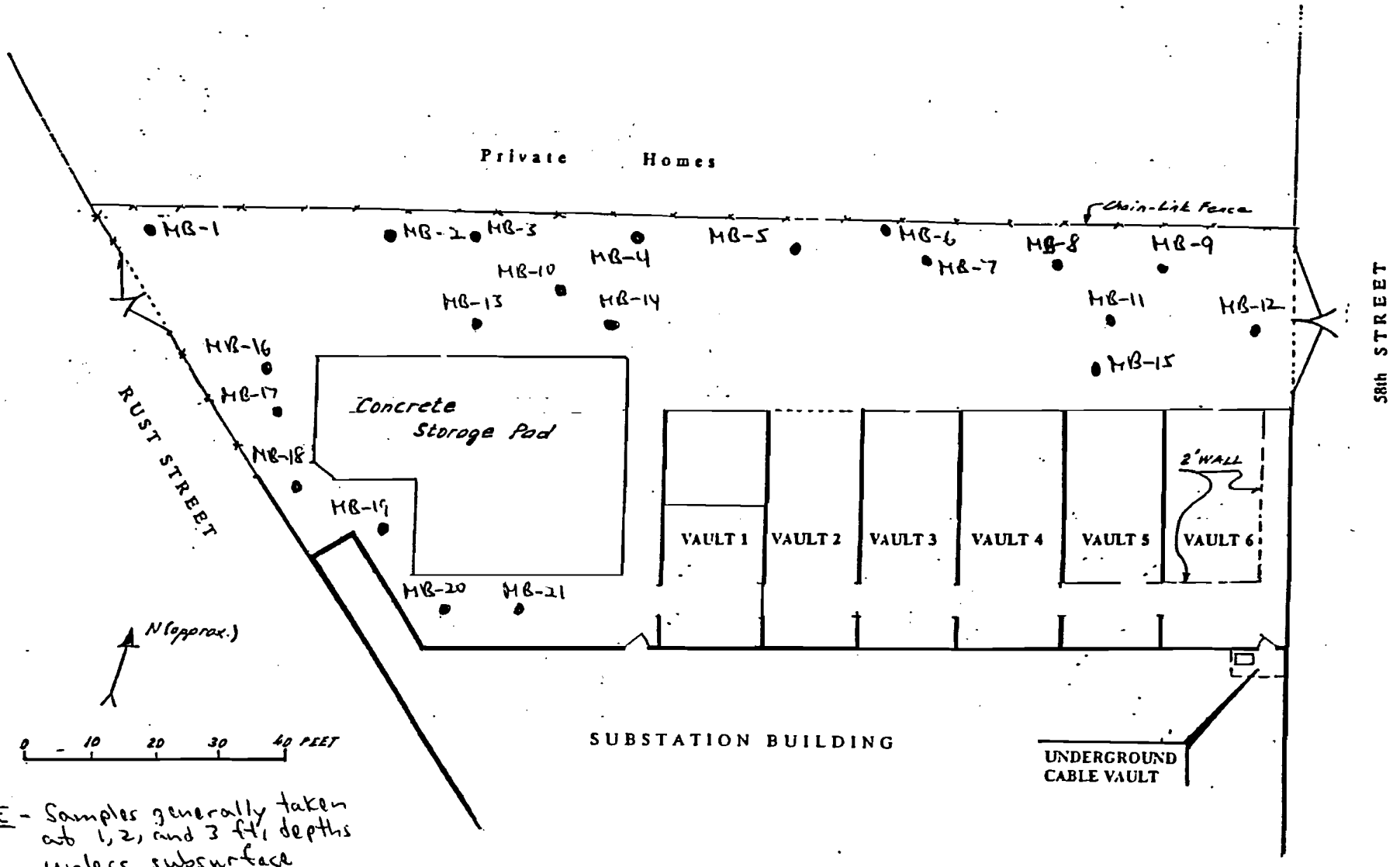
LSN	DESCRIPTION	AROCLOR	PPM
904723	MSS5776 WATER MASBETH S/S - PULL BOX #5776 SA1408	1242	<=10.
904724	MSS2549 SLUDGE MASBETH S/S - M.H. #2549	1254	16.

APPROVED BY:

James O. Hendricks

6/15
KAK
Let's review
status of
all these projects
on 6/19
RTK

MASPETH SUBSTATION
PCB SOIL SAMPLE LOCATIONS
(JULY 21-26, 1989)



NOTE - Samples generally taken at 1, 2, and 3 ft. depths unless subsurface obstructions (e.g., rock) prevented sample collection at 2 or 3 ft. depth.

WASBETH SUBSTATION BORING LOG
OUTSIDE YARD - SOIL SAMPLING FOR PCBS

BORING NO.	DATE TAKEN	DEPTH	PCB CONC.	COMMENTS
MB-1A	JULY 21	1 FT.	<10	BROWN CLAY
MB-1B	JULY 21	2 FT	<10	BROWN CLAY
MB-1C	JULY 21	3 FT	<10	BROWN CLAY
MB-2A	JULY 26	1 FT	<10	
MB-2B	JULY 26	2 FT	<10	
MB-2C	JULY 26	3 FT	<10	
MB-3A	JULY 26	1 FT	<10	
MB-3B	JULY 26	2 FT	<10	
MB-3C	NO SAMPLE	3 FT	—	HIT ROCK @ 2.5' DEPTH
MB-4A	JULY 26	1 FT	<10	
MB-4B	NO SAMPLE	2 FT	—	HIT ROCK @ 1' DEPTH
MB-4C	NO SAMPLE	3 FT	—	
MB-5A	JULY 21	1 FT	3590 ppm	HIT ROCKS @ 1' DEPTH
MB-5B	NO SAMPLE	2 FT	—	
MB-5C	NO SAMPLE	3 FT	—	
MB-6A	JULY 21	1 FT	1500 ppm	HIT ROCKS @ 1' DEPTH
MB-6B	NO SAMPLE	2 FT	—	
MB-6C	NO SAMPLE	3 FT	—	
MB-7A	JULY 21	1 FT	36 ppm	HIT ROCK @ 1' DEPTH; THREE HOLES WERE ATTEMPTED
MB-7B	NO SAMPLE	2 FT	—	
MB-7C	NO SAMPLE	3 FT	—	
MB-8A	JULY 21	1 FT	<10	
MB-8B	JULY 21	1.5' ~~2 FT~~	<10	HIT ROCK @ 1.5' DEPTH
MB-8C	NO SAMPLE	3 FT	—	NO SAMPLE
MB-9A	JULY 21	1 FT	<10	
MB-9B	JULY 21	1.5' ~~2 FT~~	<10	HIT [illegible] @ 1.5' DEPTH
MB-9C	NO SAMPLE	3 FT	—	NO SAMPLE
MB-10A	JULY 26	1 FT	<10	HIT ROCK @ 1'
MB-10B	NO SAMPLE	2 FT	—	
MB-10C	NO SAMPLE	3 FT	—	
MB-11A	JULY 21	1 FT	<10	
MB-11B	JULY 21	1.5' ~~2 FT~~	<10	HIT ROCK @ 1.5'
				NO SAMPLE

MASBETH SUBSTATION BORING LOG
OUTSIDE YARD - SOIL SAMPLING FOR PCBS

BORING NO.	DATE TAKEN	DEPTH	PCB CONC.	COMMENTS
MB-12A	JULY 21	1FT	<10	
MB-12B	JULY 21	1.5FT ~~2FT~~	<10	HIT CONC. OR ROCK @ 1.5' DEPTH
MB-12C	NO SAMPLE	3FT	—	NO SAMPLE
MB-13A	JULY 26	1FT	<10	
MB-13B	NO SAMPLE	2FT	—	HIT ROCK @ 1' DEPTH
MB-13C	NO SAMPLE	3FT	—	
MB-14A	JULY 26	1FT	<10	
MB-14B	JULY 26	2FT	<10	HIT ROCK @ 2' DEPTH
MB-14C	NO SAMPLE	3FT	—	
MB-15A	JULY 21	1FT	<10	
MB-15B	JUL/21	2FT	<10	
MB-15C	JULY 21	3FT	<10	
MB-16A	JULY 26	1FT	<10	
MB-16B	JULY 26	2FT	<10	HITROCK @ 2'
MB-16C	NO SAMPLE	3FT	—	
MB-17A	JULY 26	1FT	<10	
MB-17B	JULY 26	2FT	<10	
MB-17C	JULY 26	3FT	<10	
MB-18A	JULY 26	1FT	<10	
MB-18B	JULY 26	2FT	<10	HIT ROCK @ 2'
MB-18C	NO SAMPLE	3FT	—	
MB-19A	JULY 26	1FT	<10	
MB-19B	JULY 26	2FT	<10	
MB-19C	NO SAMPLE	3FT	—	HIT ROCK @ 2'
MB-20A	JULY 26	1FT	<10	
MB-20B	JULY 26	2FT	<10	
MB-20C	~~JULY 26 NO SAMPLE~~	3FT	~~<10~~	~~HIT ROCK~~
MB-21A	JULY 26	1FT	<10	
MB-21B	JULY 26	2FT	<10	
MB-22C	NO SAMPLE	3FT	—	

CONSOLIDATED EDISON

Date: 08-03-89

Batch-Sequence-No: 905728
Job-Number: SA1739

Date-Received: 07-24-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: WESTCHESTER DIV Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
905728	MB-1C MASPETH S/S	SOIL SA1739	1260	<=10.
905729	MB-6A MASPETH S/S	SOIL	1260	1500.
905730	MB-1B MASPETH S/S	SOIL	1242	<=10.
905731	MB-1A MASPETH S/S	SOIL	NONE	<=10.
905732	MB-5A MASPETH S/S	SOIL	1260	3590.
905733	MB-11B MASPETH S/S	SOIL	NONE	<=10.
905734	MB-7A MASPETH S/S	SOIL	1260	36.
905735	MB-11A MASPETH S/S	SOIL	NONE	<=10.
905736	MB-15C MASPETH S/S	SOIL	NONE	<=10.
905737	MB-12B MASPETH S/S	SOIL	1260	<=10.

APPROVED BY: Robert Gordon

CONSOLIDATED EDISON

Date: 08-03-89

Batch-Sequence-No: 905728
Job-Number: SA1739

Date-Received: 07-24-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: WESTCHESTER DIV Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
905738	MB-8B MASPETH S/S	SOIL	1260	<=10.
905740	MB-9B MASPETH S/S	SOIL	1260	<=10.
905741	MB-15A MASPETH S/S	SOIL	1242	<=10.
905742	MB-8A MASPETH S/S	SOIL	1260	<=10.
905743	MB-15B MASPETH S/S	SOIL	NONE	<=10.
905744	MB-12A MASPETH S/S	SOIL	NONE	<=10.
905745	MB-9A MASPETH S/S	SOIL	1260	<=10.

APPROVED BY:

Robert Gordon

CONSOLIDATED EDISON

Date: 08-02-89

Batch-Sequence-No: 905837
Job-Number: SA1769

Date-Received: 07-27-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: ENVIRONMENTAL DIV Division: AL - 1

PCB ANALYSIS

SN	DESCRIPTION		AROCLOR	PPM
05837	MB-2A MASPETH SUB STATION	SOIL SA1769	NONE	<=10.
05838	MB-3B MASPETH SUB STATION	SOIL	NONE	<=10.
05839	MB-16B MASPETH SUB STATION	SOIL	1260	<=10.
05840	MB-18A MASPETH SUB STATION	SOIL	NONE	<=10.
05841	MB-20A MASPETH SUB STATION	SOIL	NONE	<=10
05842	MB-20B MASPETH SUB STATION	SOIL	NONE	<=10.
05843	MB-2B MASPETH SUB STATION	SOIL	NONE	<=10.
05844	MB-4A MASPETH SUB STATION	SOIL	NONE	<=10.
05845	MB-16A MASPETH SUB STATION	SOIL	NONE	<=10.
05846	MB-12C MASPETH SUB STATION	SOIL	NONE	<=10.

APPROVED BY:

James C. Hendrick

CONSOLIDATED EDISON

Date: 08-02-89

Batch-Sequence-No: 905837
Job-Number: SA17a9

Date-Received: 07-27-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: ENVIRONMENTAL DIV Division: AL - 1

PCB ANALYSIS

SN	DESCRIPTION	MATRIX	PPM
05847	MB-19B SOIL MASPETH SUB STATION	NONE	=10.
05848	MB-20C SOIL MASPETH SUB STATION	NONE	=10.
05849	MB-2C SOIL MASPETH SUB STATION	NONE	<=10.
05850	MB-13A SOIL MASPETH SUB STATION	NONE	<=10.
05851	MB-10A SOIL MASPETH SUB STATION	NONE	=10.
05852	MB-17B SOIL MASPETH SUB STATION	NONE	<=10.
05853	MB-19A SOIL MASPETH SUB STATION	NONE	<=10.
05855	MB-21A SOIL MASPETH SUB STATION	NONE	<=10.
05856	MB-3A SOIL MASPETH SUB STATION	NONE	<=10.
05857	MB-14A SOIL MASPETH SUB STATION	NONE	<=10.

APPROVED BY:

James D. Hendricks

CONSOLIDATED EDISON

Date: 08-02-89

Batch-Sequence-No: 905832
Job-Number: SA1269

Date-Received: 07-27-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: ENVIRONMENTAL DEV Division: HI - 1

PCB ANALYSIS

SI	DESCRIPTION		AROCLOR	PPM
058558	MB-14B MASPETH SUB STATION	SOIL	1260	<1.0
058559	MB-12B MASPETH SUB STATION	SOIL	NONE	<1.0
058601	MB 18B MASPETH SUB STATION	SOIL	NONE	<1.0
058602	MB-11B MASPETH SUB STATION	SOIL	1254	<1.0

APPROVED BY:

James C. Hendrick

CONSOLIDATED EDISON

Date: 08-02-89

Batch-Sequence-No: 905837
Job-Number: SA1769

Date-Received: 07-27-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: ENVIRONMENTAL DIV Division: AL - 1

PCB ANALYSIS

N	DESCRIPTION		AROCLOR	PPM
5837	MB-2A MASPETH SUB STATION	SOIL SA1769	NONE	<=10.
5838	MB-3B MASPETH SUB STATION	SOIL	NONE	<=10.
5839	MB-16B MASPETH SUB STATION	SOIL	1260	<=10.
5840	MB-18A MASPETH SUB STATION	SOIL	NONE	<=10.
5841	MB-20A MASPETH SUB STATION	SOIL	NONE	<=10.
5842	MB-20B MASPETH SUB STATION	SOIL	NONE	<=10.
5843	MB-2B MASPETH SUB STATION	SOIL	NONE	<=10.
5844	MB-4A MASPETH SUB STATION	SOIL	NONE	<=10.
5845	MB-16A MASPETH SUB STATION	SOIL	NONE	<=10.
5846	MB-17C MASPETH SUB STATION	SOIL	NONE	<=10.

APPROVED BY:

James C. Hendricks

CONSOLIDATED EDISON

Date: 08-02-89

Batch-Sequence-No: 905837
Job-Number: SA1769

Date-Received: 07-27-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: ENVIRONMENTAL DIV Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION	AROCLOR	PPM
905847	MB-19B SOIL MASPETH SUB STATION	NONE	<=10.
905848	MB-20C SOIL MASPETH SUB STATION	NONE	<=10.
905849	MB-2C SOIL MASPETH SUB STATION	NONE	<=10.
905850	MB-13A SOIL MASPETH SUB STATION	NONE	<=10.
905851	MB-10A SOIL MASPETH SUB STATION	NONE	<=10.
905852	MB-17B SOIL MASPETH SUB STATION	NONE	<=10.
905853	MB-19A SOIL MASPETH SUB STATION	NONE	<=10.
905855	MB-21A SOIL MASPETH SUB STATION	NONE	<=10.
905856	MB-3A SOIL MASPETH SUB STATION	NONE	<=10.
905857	MB-14A SOIL MASPETH SUB STATION	NONE	<=10.

APPROVED BY:

James D. Hendricks

CONSOLIDATED EDISON

Date: 08-02-89

Batch-Sequence-No: 905837
Job-Number: SA1769

Date-Received: 07-27-89
Account-No.: 0000

Submitter: R.BLACKMAN
Report-To: ENVIRONMENTAL DIV Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION	AROCLOR	PPM
905858	MB-14B SOIL MASPETH SUB STATION	1260	<=10.
905859	MB-17A SOIL MASPETH SUB STATION	NONE	<=10.
905860	MB-18B SOIL MASPETH SUB STATION	NONE	<=10.
905861	MB-21B SOIL MASPETH SUB STATION	1254	<=10.

APPROVED BY:

James G. Hendrick

OHM Corporation

May 11, 1990

Mr. Karel A. Konrad, Ph.D.
Senior Environmental Engineer
Environmental Affairs
Consolidated Edison Co. of New York, Inc.
4 Irving Place, New York, NY 10003

RE: Results of soil borings conducted at the Maspeth Substation, Queens, New York, Project No. 8748.

Dear Mr. Konrad:

Enclosed please find the analytical results, boring logs, and location map of the test borings performed at the above referenced site.

On March 29, 1990 six test borings were drilled using a truck mounted, Mobil B-53 drill rig at the locations shown in figure 1. A representative from Consolidated Edison Co. of New York (Con Edison) was at the site to locate the borings. All borings were advanced using hollow stem augers and continuous split spoon sampling. The split spoon samplers were decontaminated between samples to prevent possible cross-contamination. Decontamination was accomplished in accordance with OHM Remediation Services Corp. QA/QC procedures as described in the scope of work. A total of 31 discrete samples were collected. Each sample was split and a portion provided to the Con Edison representative for client-arranged PCB analysis. The remaining portion was delivered to a certified laboratory for Total Petroleum Hydrocarbons (TPH) analysis. The summarized results of each soil sample are shown in Table 1. The boring locations are shown in Figure 1.

The subsoils encountered consisted of a 1 foot thick road gravel section overlying a man-placed silty sand fill to depths varying from 3 to 8 feet below ground surface. The fill overlies natural clayey sand to the maximum depth explored, 13 feet. Groundwater was encountered in each of the borings at a depth of 9.5 feet below ground surface. Bedrock was not encountered.

The laboratory results indicated TPH concentrations ranging from below minimum detection levels to 6,041 milligrams per kilogram (mg/kg) or parts per million. The highest TPH concentrations were found near the groundwater table in borings B-2, B-3, and B-4.

If you have any questions please call me at 609-987-0010.

Sincerely,

Christopher J. Hoen
Hydrogeologist

CJH:

pc: Steve Agocs
Project No. 8748

PART 1 | O.H. MATERIALS CORP. | PAGE 1 OF 2

JOB NUMBER: 8748 | BORE HOLE NO. B-1

PROJECT: Con Edison, Maspeth	LOCATION: Queens, NY
DRILLING CONTRACTOR: O.H. Materials Corp.	DRILLING EQUIPMENT: Mobil B-53
HYDROGEOLOGIST: Chris Hoen	DRILLER: Carlos Puente

DATE START / TIME	DATE FINISH / TIME	SURFACE ELEVATION	TOTAL DEPTH:
3-29-90 8:40 am	3-29-90 8:55 am		11 feet

WELL CASING:	SCREEN TYPE:	LENGTH	SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE			S.S.	
3-29-90	8:55 am	9½ feet	Clear	DIAMETER			1½"	
REMARKS				HAMMER WEIGHT			140 lbs	
8" diameter Hollow Stem Auger				FALL			30"	

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1				0-1′ Road Gravel 3/4" diameter rock		
2	B-1-1	8,7,8	2′	1-7′ Sand, silty, reddish brn, trace gravel, moist, contains pieces of glass, probable fill, some drk brn to black layers	Chem. odor	
3		10			Some clay lenses 5-7′ V. moist V. silty	
4	B-1-3	7, 20	2′			
5		23, 32				
6	B-1-5	4, 4	2′			
7		7, 7				
8	B-1-7	4, 4	2′	7-9½′ Sand, very clayey, fine to med. grained sand iron-stained	No Odor	
		4, 4				

PART 2 | O.H. MATERIALS CORP. | PAGE 2 OF 2

JOB NO: 8748 | BORE HOLE NO. B-1

PROJECT: Con Edison, Maspeth | LOCATION: Queens, NY

REMARKS: 8" diameter Hollow Stem Auger

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	BORE HOLE LOG: REMARKS	GRAPHIC LOG
9	B-1-9	7, 15	2'	Sand, very clayey, fine to med. grained sand iron-stained		
10		22, 100/3"		9½-11' Clay, sandy, some sand lenses, med. grained, v. moist to wet, gray to orange Iron-stained		
11				BOTTOM OF BORING = 11.0' WATER AT 9½ FEET BGS		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

PART 1 | O.H. MATERIALS CORP. | PAGE 1 OF 2

JOB NUMBER: 8748 | BORE HOLE NO. B-2

PROJECT: Con Edison, Maspeth | LOCATION: Queens, NY

DRILLING CONTRACTOR: O.H. Materials Corp. | DRILLING EQUIPMENT: Mobil B-53

HYDROGEOLOGIST: Chris Hoen | DRILLER: Carlos Puente

DATE START / TIME	DATE FINISH / TIME	SURFACE ELEVATION	TOTAL DEPTH:
3-29-90 10:00 am	3-29-90 10:20 am		10 feet

WELL CASING:	SCREEN TYPE:	LENGTH	SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE			S.S.	
3-29-90	10:20 am	9½ feet	Clear	DIAMETER			1½"	
				HAMMER WEIGHT			140 lb.	
				FALL			30"	

REMARKS

8" diameter hollow stem auger

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1				0-1′ Gravel		
2	B-2-1	9, 13	2′	1-5′ Sand, m-c, sl. silty, trace gravel, moist, reddish brn, probable fill	Chem. Odor	
3		13, 18				
4	B-2-3	9, 17	2′			
5		20, 31				
6	B-2-5	11,4	2′	5-9′ Clay, drk brn, silty, very moist became gray to orange at 7′ some med. gr. wet sand lenses	No Odor	
7		4,11				
8	B-2-7	7, 7	2′			
		11, 12				

PART 2 | O.H. MATERIALS CORP. | PAGE 2 OF 2

JOB NO: 8748 | BORE HOLE NO. B-2

PROJECT: Con Edison, Maspeth | LOCATION: Queens, NY

REMARKS: 8" diameter hollow stem auger

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG		GRAPHIC LOG
				LITHOLOGIC DESCRIPTION	REMARKS	
9	B-2-9	20, 27	1'	9'-10'		
		100/1"		Sand med., sl. clayey, wet, piece of shale and gravel in bottom of spoon	Refusal at 10' on large gravel	
10				BOTTOM OF BORING = 10.0' WATER AT 9½' BGS		
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

PART 1 | O.H. MATERIALS CORP. | PAGE 1 OF 2

JOB NUMBER: 8748 | BORE HOLE NO. B-3

PROJECT: Con Edison, Maspeth	LOCATION: Queens, NY
DRILLING CONTRACTOR: O.H. Materials Corp.	DRILLING EQUIPMENT: Mobil B-53
HYDROGEOLOGIST: Chris Hoen	DRILLER: Carlos Puente
DATE START / TIME 3-29-90 11:00 am / DATE FINISH / TIME 3-29-90 11:20 am	SURFACE ELEVATION / TOTAL DEPTH: 11 feet
WELL CASING: / SCREEN TYPE:	LENGTH / SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE			S.S.	
3-29-90	11:20 am	9½ feet	Clear	DIAMETER			1½"	
REMARKS				HAMMER WEIGHT			140#	
8" diameter hollow stem auger				FALL			30"	

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1				0-1' Road Gravel		
2	B-3-1	11, 9	2'	1-3' Sand, med., clayey, with clay lenses, reddish brn to drk brn, v. moist, tr. gravel probable fill	No Odor	
3		14, 14				
4	B-3-3	3, 3	2'	3-7' Clay, v. sandy, wet, sand is med.-coarse, orange, some black streaks	No Odor	
5		4, 4				
6	B-3-5	1, 1	2'			
7		2, 18				
8	B-3-7	19, 21	2'	7-11' Sand, clayey, wet, reddish brn, med-coarse sand, some gravel 1" diameter	No Odor	
		41, 100/4"				

PART 2 | O.H. MATERIALS CORP. | PAGE 2 OF 2

JOB NO: 8748 | BORE HOLE NO. B-3

PROJECT: Con Edison, Maspeth | LOCATION: Queens, NY

REMARKS: 8" diameter hollow stem auger

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	BORE HOLE LOG: REMARKS	GRAPHIC LOG
9						
10	B-3-9	15, 18 18, 20	2′	Sand, clayey, wet, reddish brn, med-coarse sand, some gravel 1" diameter	No Odor	
11				BOTTOM OF BORING = 11.0′ WATER AT 9½′ BGS.		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

PART 1 | O.H. MATERIALS CORP. | PAGE 1 OF 2

JOB NUMBER: 8748 | BORE HOLE NO. B-4

PROJECT: Con Edison, Maspeth	LOCATION: Queens, NY
DRILLING CONTRACTOR: O.H. Materials Corp.	DRILLING EQUIPMENT: Mobil B-53
HYDROGEOLOGIST: Chris Hoen	DRILLER: Carlos Puente
DATE START / TIME 3-29-90 1:05 pm; DATE FINISH / TIME 3-29-90 1:45 pm	SURFACE ELEVATION; TOTAL DEPTH: 13 feet
WELL CASING: ; SCREEN TYPE:	LENGTH ; SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE			S.S.	
3-29-90	1:45 pm	9½ feet	Clear	DIAMETER			1½"	
REMARKS				HAMMER WEIGHT			140 lbs	
				FALL			30"	

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1				0-1′ Road gravel		
2	B-4-1	12, 13	2′	1-3′ Fill, sand, fine-med grained, very silty, black	No Odor	
3		18,16				
4	B-4-3	6, 7	2′	3-13′ Sand, very clayey, red-brn, very moist, some clay lenses below 5′, wet with some gravel	No Odor	
5		7, 9				
6	B-4-5	6, 9	2′			
7		13, 13				
8	B-4-7	9, 8	2′			
		22, 28				

PART 2 | O.H. MATERIALS CORP. | PAGE 2 OF 2

JOB NO: 8748 | BORE HOLE NO. B-4

PROJECT: Con Edison | LOCATION: Queens, NY

REMARKS:

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	BORE HOLE LOG: REMARKS	GRAPHIC LOG
9						
	B-4-9	9, 9		Water at 9½' bgs		
10			2'	Sand, very clayey, red-brn, very moist, some clay lenses below 5', wet with some gravel	No Odor	
		18, 23				
11						
	B-4-11	10, 20				
12			2'			
		38, 54				
13				BOTTOM OF BORING = 13.0'		
14						
15						
16						
17						
18						
19						
20						
21						

PART 1 | O.H. MATERIALS CORP. | PAGE 1 OF 2

JOB NUMBER: 8748 | BORE HOLE NO. B-5

PROJECT: Con Edison, Maspeth	LOCATION: Queens, NY
DRILLING CONTRACTOR: O.H. Materials Corp.	DRILLING EQUIPMENT: Mobil B-53
HYDROGEOLOGIST: Chris Hoen	DRILLER: Carlos Puente

DATE START / TIME	DATE FINISH / TIME	SURFACE ELEVATION	TOTAL DEPTH:
3-29-90 10:30	3-29-90 10:50 am		11 feet

WELL CASING:	SCREEN TYPE:	LENGTH	SLOT

GROUND WATER			
DATE	TIME	DEPTH	WEATHER
3-29-90	10:50 am	9½ feet	Clear

REMARKS

8" diameter hollow stem auger

	CASING	CORE	SAMPLER	TUBE
TYPE			S.S.	
DIAMETER			1½"	
HAMMER WEIGHT			140#	
FALL			30"	

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1				Road gravel 0-1'		
2	B-5-1	3, 4	2'	1-5' Fill, sand, f-m gr, silty, red-brn, v. moist, loose	No Odor	
3		4, 3				
4	B-5-3	8, 7	2'			
5		4, 4				
6	B-5-5	7, 7	2'	5-11 Clay, v. sandy, drk brn, orange-gray, v. moist to wet, sand is med. grained, iron-stained	Chem. Odor	
7		9, 11				
8	B-5-7	9, 13	2'			
		17,24				

PART 2 | O.H. MATERIALS CORP. | PAGE 2 OF 2

JOB NO: 8748 | BORE HOLE NO. B-5

PROJECT: Con Edison, Maspeth | LOCATION: Queens, NY

REMARKS:

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	BORE HOLE LOG: REMARKS	GRAPHIC LOG
9						
	B-5-9	18,22		Water at 9.5′ bgs		
10	*		0.1′	Clay, v. sandy, drk brn, orange-gray, v. moist to wet, sand is med. grained, iron-stained	*No sample for TPH 9-11′ due to low recovery	
		27, 28				
11				BOTTOM OF BORING = 11.0′		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

PART 1 | O.H. MATERIALS CORP. | PAGE 1 OF 2

JOB NUMBER: 8748 | BORE HOLE NO. B-6

PROJECT: Con Edison, Maspeth	LOCATION: Queens, NY
DRILLING CONTRACTOR: O.H. Materials Corp.	DRILLING EQUIPMENT: Mobil B-53
HYDROGEOLOGIST: Chris Hoen	DRILLER: Carlos Puente

DATE START / TIME	DATE FINISH / TIME	SURFACE ELEVATION	TOTAL DEPTH:
3-29-90 12:05 pm	3-29-90 12:35 pm		11 feet

WELL CASING:	SCREEN TYPE:	LENGTH	SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE			S.S.	
3-29-90	12:35 pm	9½ feet	Clear	DIAMETER			1½"	
REMARKS				HAMMER WEIGHT			140#	
8" diameter hollow stem auger				FALL			30"	

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1				0-1' Road Gravel		
2	B-6-1	11, 12	2'	1-8' Fill, sand, very clayey, silty (medium to coarse sand), red-brn to orange, black near surface, very moist	No Odor	
3		14, 5				
4	B-6-3	4, 4	2'			
5		6, 9				
6	B-6-5	5, 7	2'			
7		9, 9				
8	B-6-7	7, 7	2'			
		18, 20		8-9½' Clay, sl. sandy, moist orange to gray	No Odor	

PART 2 | O.H. MATERIALS CORP. | PAGE 2 OF 2

JOB NO: 8748 | BORE HOLE NO. B-6

PROJECT: Con-Edison, Maspeth | LOCATION: Queens, NY

REMARKS:

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	BORE HOLE LOG: REMARKS	GRAPHIC LOG
9				Clay, sl. sandy, moist orange to gray		
10	B-6-9	15, 15	2′	9½-11′ Sand and clay interlayered sand is m. grained and wet	No Odor	
11		17, 21		BOTTOM OF BORING = 11.0′ WATER AT 9½′ BGS		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

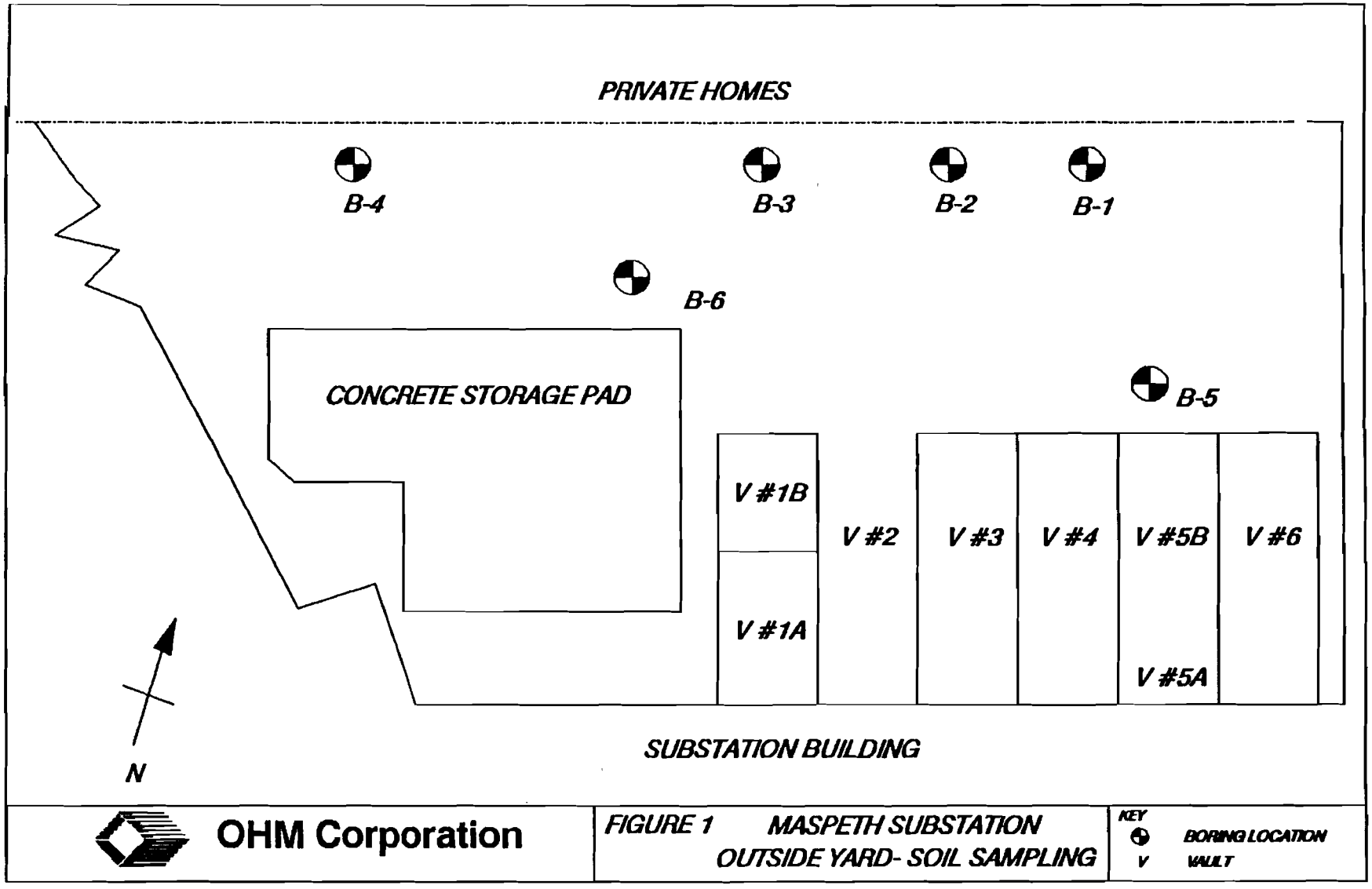
TABLE 1

SOIL SAMPLE RESULTS

TOTAL PETROLEUM HYDROCARBONS

LOCATION	OHM NUMBER	DATE	RESULT	UNITS	MDL	UNITS	LAB NUMBER
SOIL FROM BORING NO. 1, 1-3' BGS	B-1-1	3/29/90	246	mg/kg	18.3	mg/kg	FA8092
SOIL FROM BORING NO. 1, 3-5' BGS	B-1-3	3/29/90	86.1	mg/kg	19.5	mg/kg	FA8093
SOIL FROM BORING NO. 1, 5-7' BGS	B-1-5	3/29/90	32.5	mg/kg	19.3	mg/kg	FA8094
SOIL FROM BORING NO. 1, 7-9' BGS	B-1-7	3/29/90	200	mg/kg	19.8	mg/kg	FA8095
SOIL FROM BORING NO. 1, 9-11' BGS	B-1-9	3/29/90	BMDL	mg/kg	19.1	mg/kg	FA8096
SOIL FROM BORING NO. 2, 1-3' BGS	B-2-1	3/29/90	197	mg/kg	18.3	mg/kg	FA8097
SOIL FROM BORING NO. 2, 3-5' BGS	B-2-3	3/29/90	143	mg/kg	18.2	mg/kg	FA8098
SOIL FROM BORING NO. 2, 5-7' BGS	B-2-5	3/29/90	97.8	mg/kg	21.9	mg/kg	FA8099
SOIL FROM BORING NO. 2, 7-9' BGS	B-2-7	3/29/90	5312	mg/kg	19.0	mg/kg	FA8100
SOIL FROM BORING NO. 2, 9-11' BGS	B-2-9	3/29/90	24.2	mg/kg	18.4	mg/kg	FA8101
SOIL FROM BORING NO. 3, 1-3' BGS	B-3-1	3/29/90	424	mg/kg	18.9	mg/kg	FA8102
SOIL FROM BORING NO. 3, 3-5' BGS	B-3-3	3/29/90	BMDL	mg/kg	20.2	mg/kg	FA8103
SOIL FROM BORING NO. 3, 5-7' BGS	B-3-5	3/29/90	56.9	mg/kg	19.5	mg/kg	FA8104
SOIL FROM BORING NO. 3, 7-9' BGS	B-3-7	3/29/90	221	mg/kg	18.7	mg/kg	FA8105
SOIL FROM BORING NO. 3, 9-11' BGS	B-3-9	3/29/90	2927	mg/kg	18.8	mg/kg	FA8106
SOIL FROM BORING NO. 4, 1-3' BGS	B-4-1	3/29/90	237	mg/kg	18.7	mg/kg	FA8107
SOIL FROM BORING NO. 4, 3-5' BGS	B-4-3	3/29/90	608	mg/kg	19.1	mg/kg	FA8108
SOIL FROM BORING NO. 4, 5-7' BGS	B-4-5	3/29/90	6041	mg/kg	19.5	mg/kg	FA8109
SOIL FROM BORING NO. 4, 7-9' BGS	B-4-7	3/29/90	2754	mg/kg	18.2	mg/kg	FA8110
SOIL FROM BORING NO. 4, 9-11' BGS	B-4-9	3/29/90	3.9	mg/kg	18.7	mg/kg	FA8111
SOIL FROM BORING NO. 4, 11-13' BGS	B-4-11	3/29/90	BMDL	mg/kg	18.5	mg/kg	FA8112
SOIL FROM BORING NO. 5, 1-3' BGS	B-5-1	3/29/90	412	mg/kg	19.5	mg/kg	FA8113
SOIL FROM BORING NO. 5, 3-5' BGS	B-5-3	3/29/90	68.2	mg/kg	19.9	mg/kg	FA8114
SOIL FROM BORING NO. 5, 5-7' BGS	B-5-5	3/29/90	926	mg/kg	21.5	mg/kg	FA8115
SOIL FROM BORING NO. 5, 7-9' BGS	B-5-7	3/29/90	590	mg/kg	19.1	mg/kg	FA8116
SOIL FROM BORING NO. 6, 1-3' BGS	B-6-1	3/29/90	384	mg/kg	19.1	mg/kg	FA8117
SOIL FROM BORING NO. 6, 3-5' BGS	B-6-3	3/29/90	137	mg/kg	19.6	mg/kg	FA8118
SOIL FROM BORING NO. 6, 5-7' BGS	B-6-5	3/29/90	48.6	mg/kg	19.2	mg/kg	FA8119
SOIL FROM BORING NO. 6, 7-9' BGS	B-6-7	3/29/90	32.6	mg/kg	19.4	mg/kg	FA8120
SOIL FROM BORING NO. 6, 9-11' BGS	B-6-9	3/29/90	65.1	mg/kg	20.5	mg/kg	FA8121

MDL = minimum detection level
BMDL = below minimum detection level
BGS = below ground surface


PRIVATE HOMES
B-4
B-3
B-2
B-1
B-6
B-5
CONCRETE STORAGE PAD
V #1B
V #1A
V #2
V #3
V #4
V #5B
V #5A
V #6
N
SUBSTATION BUILDING
OHM Corporation
FIGURE 1 MASPETH SUBSTATION
OUTSIDE YARD- SOIL SAMPLING
KEY
BORING LOCATION
V VAULT

March 29, 199[illegible] Sampling
by OHM

CONSOLIDATED EDISON

Date: 05-08-90

Batch-Sequence-No: 015809
Job-Number: SA0894

Date-Received: 04-30-90
Account-No.: 83095

Submitter: K.KONRAD
Report-To: QUEENS DIVISION Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
015809	B-1-1 MASPETH S/S	SOIL SA0894	1260	<=10.
015810	B-1-3 MASPETH S/S	SOIL	1260	<=10.
015811	B-1-5 MASPETH S/S	SOIL	1260	<=10.
015812	B-1-7 MASPETH S/S	SOIL	NONE	<=10.
015813	B-1-9 MASPETH S/S	SOIL	1260	<=10.
015814	B-2-1 MASPETH S/S	SOIL	1254	<=10.
015815	B-2-3 MASPETH S/S	SOIL	1260	<=10.
015816	B-2-5 MASPETH S/S	SOIL	1260	<=10.
015817	B-2-7 MASPETH S/S	SOIL	1260	<=10.
015818	B-2-9 MASPETH S/S	SOIL	1254	<=10.

APPROVED BY: [signature]

CONSOLIDATED EDISON

Date: 05-08-90

Batch-Sequence-No: 015809
Job-Number: SA0894

Date-Received: 04-30-90
Account-No.: 83095

Submitter: K.KONRAD
Report-To: QUEENS DIVISION Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
015819	B-3-1 MASPETH S/S	SOIL	1260	<=10.
015820	B-3-3 MASPETH S/S	SOIL	1260	<=10.
015821	B-3-5 MASPETH S/S	SOIL	NONE	<=10.
015822	B-3-7 MASPETH S/S	SOIL	1254	<=10.
015823	B-3-9 MASPETH S/S	SOIL	NONE	<=10.
015824	B-4-1 MASPETH S/S	SOIL	1242	<=10.
015825	B-4-3 MASPETH S/S	SOIL	NONE	<=10.
015826	B-4-5 MASPETH S/S	SOIL	1260	<=10.
015827	B-4-9 MASPETH S/S	SOIL	NONE	<=10.
015828	B-4-7 MASPETH S/S	SOIL	NONE	<=10.

APPROVED BY: Linda Oates

CONSOLIDATED EDISON

Date: 05-08-90

Batch-Sequence-No: 015809
Job-Number: SA0894

Date-Received: 04-30-90
Account-No.: 83095

Submitter: K.KONRAD
Report-To: QUEENS DIVISION Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION		AROCLOR	PPM
015835	B-4-11 MASPETH S/S	SOIL	NONE	<=10.
015836	B-5-1 MASPETH S/S	SOIL	1260	25.
015837	B-5-3 MASPETH S/S	SOIL	1260	<=10.
015838	B-5-5 MASPETH S/S	SOIL	1260	<=10.
015839	B-5-7 MASPETH S/S	SOIL	1260	<=10.
015840	B-5-9 MASPETH S/S	SOIL	1260	<=10.
015841	B-6-1 MASPETH S/S	SOIL	1260	13.
015842	B-6-3 MASPETH S/S	SOIL	NONE	<=10.
015843	B-6-5 MASPETH S/S	SOIL	1260	<=10.
015844	B-6-7 MASPETH S/S	SOIL	NONE	<=10.

APPROVED BY:

CONSOLIDATED EDISON

Date: 05-08-90

Batch-Sequence-No: 015809
Job-Number: SA0894

Date-Received: 04-30-90
Account-No.: 83095

Submitter: K.KONRAD
Report-To: QUEENS DIVISION Division: AL - 1

PCB ANALYSIS

LSN	DESCRIPTION	AROCLOR	PPM
015845	B-6-9 SOIL MASPETH S/S	1260	<=10.

APPROVED BY: Sandra Cates

EXHIBIT 2

ACM SAMPLING RESULTS

Date: Thursday, 25 June 1992 2:43pm ET
To: NEWELL.G, CHEMLABDATA
From: CHEMLIMS
Subject: by Glenn Newell 92-03131

JUNE 25 1992

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 92-03131
Customer Job Number:

Date Reported: 06/25/92
Date Received: 06/24/92
Date Sampled: 06/24/92

Submitter: Glenn Newell
Description: BULK MATERIALS-BROWNSVILLE & MASPETH SUBSTATIONS
Facility: Env Aff, 4 Irv Pl Rm 300

Analyzed By: A.KNOBEL

Sample ID #	Cust. ID #	Sample Description	Asbestos Content %	Ceramic Fibers
-001	M1	CEMENTITIOUS PIPE DUCT MASPETH SUBSTATION	Less Than 1	Not Detected
-002	B1	ARC PROOF TAPE BROWNSVILLE SUBSTATION	Greater Than 1	Not Detected
-003	B2	TREATED ARC PROOF TAPE CLOTH FIBER - BROWNSVILLE S/S	Less Than 1	Not Detected
-004	B3	TREATED ARC PROOF TAPE LIQUID - BROWNSVILLE S/S	Less Than 1	Not Detected

Approved By: S.PETERS

Date: Wednesday, 28 February 1996 5:58am ET
To: MARCHON.V, NEWELL.G
From: LUGER.G
Subject: by Gilbert Luger 96-01785

Here's the results from maspeth

----------(Forwarded letter 1 follows)----------

Date: Tuesday, 27 February 1996 6:48pm ET
To: LUGER.G, ISM-LOCAL-LOG, CHEMLABDATA
From: CHEMLIMS
Subject: by Gilbert Luger 96-01785

FEB. 27 1996

CONSOLIDATED EDISON

TECHNICAL SERVICES LABORATORY
SYSTEM & TRANSMISSION OPERATIONS

Lab Sequence Number: 96-01785-001
Customer Number: NO.1

Date Reported: 02/26/96
Date Received: 02/22/96
Date Sampled: 02/22/96

Submitter: Gilbert Luger
Description: BULK MATERIAL - PIPE RUN: MASPETH SUBSTATION
Facility: 124-15 31 Av, College Point

Analyzed By: BRATHWAITE

Sample Description: PIPE RUN IN SHOP AREA
57-77 RUST ST., MASPETH S/S

Appearance: Homogenous(Y/N) Y Fibrous(Y/N) N Friable(Y/N) N
Color: GREY Sample Treatment: NONE

ASBESTOS APPROX.	%	Non-ASBESTOS APPROX.	%	Non-FIBROUS APPROX.	%
AMOSITE	ND	CELLULOSE	ND	QUARTZ	ND
CHRYSOTILE	ND	FIBERGLASS	ND	OPAQUES	ND
CROCIDOLITE	ND	SYNTHETIC	ND	CARBONATES	ND
TREMOLITE	ND	CERAMIC FIBERS	ND	OTHER	100
ANTHOPHYLLITE	ND	MINERAL WOOL	ND		
ACTINOLITE	ND				
TOTAL ASBESTOS	ND				

Approved By: BRATHWAITE

The above results reflect the analysis of the sample as submitted. Sample preparation and analysis of bulk materials is performed in accordance with US EPA - 600/M4-82-020.

EXHIBIT 3

PAINT CHIP SAMPLING RESULTS

Date: Wednesday, 22 July 1992 4:23pm ET
To: RYAN.T, GUINAN.J, LARSSEN.L, NEWELL.G, CORCORAN.G
From: MARCHON.V
Subject: by Victor Marchon 92-03495

samples from maspeth&farrington

----------(Forwarded letter follows)----------

Date: Wednesday, 22 July 1992 1:38pm ET
To: LIMS_QN, MARCHON.V
From: CHEMLIMS
Subject: by Victor Marchon 92-03495

JULY 22 1992

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 92-03495 Date Reported: 07/22/92
Customer Job Number: Date Received: 07/16/92
Date Sampled:

Submitter: Victor Marchon
Description: PAINT CHIPS - FARRINGTON ST. S/S & MASPETH S/S
Facility: 124-15 31 Ave, College Point

Analyzed by: J.CHARLES

SAMPLE NO.	LEAD, %Pb
#1	2.0
#2	2.43
#3	1.67
#4	0.24
#5	0.73
#6	0.10
#7	1.20

Approved By: S.PETERS

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C921956 06/03/92

Con Edison
4 Irving Place, Room 300
New York, NY 10003
ATTN: Elizabeth Forte

SOURCE OF SAMPLE: Maspeth S/S (TCLP8METALS)
COLLECTED BY: Client DATE COL'D:05/23/92 RECEIVED:05/26/92

SAMPLE: Solid sample-Paint Chips, comp.**8:00 am

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	0.010	
Barium as Ba	mg/L*	0.11	
Cadmium as Cd	mg/L*	0.040	
Chromium as Cr	mg/L*	0.02	
Lead as Pb	mg/L*	0.38	
Mercury as Hg	mg/L*	0.0051	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	0.02	

cc:

REMARKS: * Analysis performed on TCLP leachate according t USEPA Method 1311.

** Composite made from wall paint and ceiling paint samples

DIRECTOR

EXHIBIT 4

TECHNICAL SPECIFICATION FOR CLEANUP OF

MASPETH SUBSTATION

Consolidated Edison Company of New York, Inc.
4 Irving Place
New York, New York 10003

TECHNICAL SPECIFICATION FOR CLEANUP OF MASPETH SUBSTATION

Environmental Affairs
Water and Waste Management

Prepared by: Barry H. Cohen
Date: June 3, 1991

Approved by: Robert T. Keegan
Date: 6/12/91

1.0 INTRODUCTION AND BACKGROUND

Consolidated Edison Company of New York, Inc. (the Company) plans to sell the retired Maspeth Substation located in Queens, New York (see Figure 1). Prior to sale, the Company will clean this property in accordance with its own guidelines and to the standards of the USEPA PCB Cleanup Policy (the Policy). The Policy requires that an electrical substation, when being transferred to a non-utility use, be cleaned to the residential area standards; i.e., to not more than 10 ppm PCBs in soil, gravel, and similar loose materials and to not more than 10 ug/100 cm^2 PCBs on solid porous and non-porous surfaces. In addition, the Company will remove petroleum hydrocarbon contamination where groundwater or surface water may be eventually affected.

The purpose of this solicitation is to retain a contractor who will perform, according to the Company specifications, cleanup of the Maspeth Substation. Before the Contractor begins cleanup activities at the substation, the Company will have de-energized the substation (except perhaps for light and power service) and removed all oil-filled electrical equipment from the site. By that time, the Company will also have performed sampling and assessed PCB and hydrocarbon contamination at the site.

2.0 SERVICES TO BE PERFORMED BY CONTRACTOR

The Contractor will furnish to the Company all supervision, labor, vehicles, tools, and any other equipment and materials as required to perform cleanup of the retired substation and to remove and properly dispose of all waste generated during the cleanup activities. The Contractor will perform all on-site as well any off-site work associated with this contract in accordance with all applicable federal, state, and local laws, rules, regulations, and ordinances and in accordance with the procedures described herein and specified in the Contractor's proposal.

The Contractor will be required to complete the entire cleanup using the cleanup methods described in this specification and the Contractor's proposal. If the Contractor has completed the cleanup as specified, but the EPA PCB cleanup standards have not been achieved, the Contractor may be required to proceed, at an additional cost to the Company, with another cleanup effort using the same or different cleanup procedures.

2.1 Cleanup Activities

Cleanup at the Maspeth substation will include the following tasks:

2.1.1 Unpaved Yard Cleanup

The Contractor shall remove crushed stone and soil from several PCB-contaminated areas within the Substation yard (Figure 2). Crushed stone and soil from these areas shall be excavated to the depths shown in Figure 2. PCB concentrations in each yard area (see Figure 2) are summarized in Table 1. In total, approximately 130 cubic yards of crushed stone and soil must be removed from the yard and disposed of as PCB waste. Borings taken in the yard indicate an approximate 1 foot thick road gravel section overlying a man-placed silty sand fill to depths varying from 3 to 8 feet below ground surface; the fill overlies natural clayey sand. For bid purposes, assume 1.5 tons per cubic yard.

During the excavations, fugitive dust must effectively be controlled to prevent contamination of the private homes to the north and the public streets to the east and west of the Substation. The dust control measures may include an 8-foot tall plastic barrier erected along the property fence line, light spray of soil by water, or a combination of both.

When the excavations in the yard are completed and the excavated material is removed from the site, the Contractor shall conduct sampling and analysis to verify that all PCB-contaminated material has been removed (see Section 2.3). Sampling locations will be designated by Con Edison. After Con Edison informs the Contractor that the cleanup standards have been achieved, the Contractor shall backfill the excavated area to the existing grade with clean crushed stone (down to 1 foot below the existing grade) and soil (depths >1 foot) containing <1 ppm PCBs. Con Edison may sample and analyze the backfill material to insure that it is clean.

2.1.2 Outdoor Transformer Vault Cleanup

There are six outdoor transformer vaults attached to the northern wall of the substation building (see Figure 3). All these vaults contain various amounts of oil-stained debris (e.g., wood, large rocks, cinder blocks) and crushed stone; Vaults 2, 5, and 6 may also contain small volumes of standing water. The cinder block walls of all six vaults are oil-stained to an average height of approximately 2.5 feet above the floor. The concrete floors of the vaults are also oil-stained. In addition, Vaults 3 and 4 have stains 10-15 feet high on their rear walls and stained piping along those walls; Vault 4 also has stains outside

the front wall approximately 2 feet high. The PCB concentrations in each vault are summarized in Table 2.

The Contractor shall remove all debris, crushed stone, and standing water from the vaults and dispose of them as non-PCB industrial waste, except that the material and water removed from the area enclosed by a 2 feet high cinder block wall within Vault 6 (see Figure 3) shall be disposed of as PCB waste. The Contractor shall also remove the stained pipes along the rear walls of Vaults 3 and 4. For bid purposes, assume a total of 6 cubic yards (9 tons) of PCB waste and 40 cubic yards (60 tons) of non-PCB industrial waste in the vaults.

After the Contractor removes all debris, crushed stone, and water from the vaults, the Contractor shall double wash/scrub with stiff brushes (or double pressure wash) and rinse the concrete floor and walls to a minimum height of 2.5 feet above the floor in each vault plus the stained rear walls in Vaults 3 and 4 and stained outside front wall in Vault 4 using Penetone Power Cleaner 155 (or a similar detergent in which PCBs are at least 5% soluble) and then wipe the cleaned areas dry. Any other oil-stained areas on the walls above the height of 2.5 feet shall also be double washed/scrubbed (or pressure washed) and rinsed. Any excess cleaning liquid shall be collected within each vault, containerized, and properly disposed of (as PCB waste for the contaminated portion of Vault 6 and as non-PCB waste for other areas). After cleanup is completed in the PCB-contaminated portion of Vault 6, the Contractor shall take PCB wipe samples at locations designated by Con Edison and analyze them to determine whether cleanup achieved EPA standards (see Section 2.3). Con Edison will also designate a total of 4 PCB wipe sampling locations in the other vaults.

2.1.3 Electrical Manhole No. 2549

Electrical Manhole No. 2549, which is located near the northwestern corner of a concrete storage pad within the Substation yard (see Figure 3), contains PCB-contaminated (16 ppm) dirt, stone, and sludge. The manhole dimensions are approximately 12 feet by 12 feet by 12 feet. For bid purposes, assume that the manhole contains 10 cubic yards (15 tons) of PCB solid waste. The Contractor shall remove PCB-contaminated dirt/stone and sludge from the bottom of this manhole. The concrete bottom must then be double washed in the manner described in Section 2.1.2 for the outdoor transformer vaults. All material and excess cleaning liquid removed from this manhole shall

be disposed of as a PCB waste. After cleanup is completed, the Contractor shall take PCB wipe samples at locations designated by Con Edison and analyze them to determine whether cleanup achieved EPA standards (see Section 2.3).

2.1.4 Underground Cable Vault

The underground cable vault (approximately 15 feet by 10 feet by 12 feet high) located in the northeaster corner of the Substation building (see Figure 3) contains PCB-contaminated (16-140 ppm) oily sludge, dirt, and water. The Contractor shall remove these materials and water from the vault and double wash the entire interior of the vault in the manner already described. For bid purposes, assume 2,000 gallons of liquid and 2 cubic yards (3 tons) of solids in the vault. All materials and liquids, including excess cleaning liquid, removed from this cable vault must be disposed of as PCB waste. After cable vault cleanup is completed, the Contractor shall take PCB wipe samples at locations designated by Con Edison and analyze them to determine whether cleanup achieved EPA Standards (see Section 2.3).

When performing cleanup activities at Company sites, the Contractor must take appropriate measures to avoid cross-contamination and to minimize the potential for dust generation and spills. When solid surfaces are double washed and rinsed, the Contractor must collect and contain all excess cleaning liquid. Unless power washing is used, the solid surfaces that are being double washed will be scrubbed with stiff brushes.

2.2 Waste Transport and Disposal

Any material or liquid, including cleanup material or fluid residues removed from the areas and/or structures designated as PCB contaminated in this specification will be handled and disposed of by the Contractor as PCB waste. The disposal of PCB waste will be only at facilities permitted to accept PCB waste. Non-hazardous waste generated during cleanup will be disposed of in a facility(ies) authorized to accept non-hazardous, industrial waste. It will be the Contractor's responsibility to demonstrate to Con Edison's satisfaction that proposed treatment, storage, and disposal (TSD) facilities, possess all required licenses and permits for wastes they will receive.

All wastes generated during cleanup will be removed from the Maspeth Substation site to an authorized TSD facility as soon as possible after they are generated but no later than two (2) calendar weeks of cleanup completion. Off-site transport of any waste must be conducted by a transporter possessing a valid New

York State Waste Hauler Permit (that allows the waste in question to be hauled to the designated TSD facility) and any waste transport permits that may be required by the waste receiving state and any other traversed states. Any vehicles transporting waste within New York City must also have a New York City Consumers Affairs Permit. All waste removed from the substation will be transported in DOT-approved drums or in bulk. The bulk transport of solids will be in roll-off containers or dump trailers that have been lined with plastic sheeting and covered with tarpaulins securely attached to the containers/trailers. The bulk transport of liquid waste will be only in DOT-approved tanker trucks. Waste transport must be in accordance with the New York State Department of Transportation, U.S Department of Transportation, and Environmental Protection Agency regulations and guidelines. The Contractor will provide and complete all applicable labels, placards, markings, manifest forms, and shipping papers.

All off-site shipments of PCB waste or any other waste considered hazardous by New York State or the state to which the waste is being transported for interim storage, disposal, or treatment will be properly manifested. The Contractor will prepare an appropriate manifest for each shipment of hazardous waste using generator information provided by the Company and have it signed by the Company on-site representative. If the Company does not receive a signed copy of the manifest from the designated TSDF within 15 days of the shipment, the Company will notify the Contractor, who will provide the required manifest copy within the next five business days. Should the Contractor fail to comply, the Company will file, in accordance with 6 NYCRR 372.2(c)(3) and 40 CFR 761.215, an Exception Report with the New York State Department of Environmental Protection (DEC), the equivalent authority in the state where the TSDF is located, or, if appropriate, the EPA Regional Administrator.

The Contractor will provide the Company with a Certificate of Disposal (COD) in accordance with 40 CFR 761.218 for each off-site shipment of PCB waste and a COD or an equivalent document for each off-site shipment of other waste. The COD must be mailed to the Company within 30 days of the waste final disposition, which must occur within 90 calendar days of the date when the waste was shipped from the Substation.

All prospective Contractors should note that Con Edison reserves the right to arrange for disposal of any or all wastes under separate contractual arrangements.

2.3 Cleanup Verification

In general, the Contractor will maintain daily work sheets where it will record all cleanup activities, off-site waste shipments, and any other important site activities taking place during each day. At the end of each working day, the Contractor's site supervisor will sign the daily work sheet. The Company on-site representative will

verify completion of the work tasks performed by the Contractor, summarize his/her findings on the Contractor's daily work sheet, and will also sign the work sheet. The Contractor will provide the Company on-site representative with one copy of a properly executed daily work sheet for each working day.

The Contractor will be required to perform post-cleanup sampling of the following areas and structures:

- Unpaved Yard Area - Approximately 70 soil samples for PCBs
- Vault 6 - Approximately 20 PCB wipe samples
- Other Vaults - approximately 4 PCB wipe samples total
- Manhole No. 2546 - Approximately 20 PCB wipe samples
- Underground Cable Vault - Approximately 20 PCB wipe samples.

Sample locations will be designated by Con Edison's Field Representative. Wipe samples shall be taken using disposable 100 square centimeter templates.

As cleanup is completed in each yard area and vault/manhole, approximately 2 samples will be taken (from each area) for rush (48 hour) analysis. If the results meet EPA cleanup standards for an area, the balance of required samples will be taken and analyzed with routine turnaround time. If the results exceed EPA cleanup standards, additional cleanup will be required and then the full complement of verification samples taken. For bid purposes assume that 14 soil samples and 8 wipe samples will require 48 hour turnaround and that 56 soil samples and 56 wipe samples will require routine turnaround.

The contractor will be responsible for PCB analyses of all collected post-cleanup samples. All analyses will be in accordance with EPA-approved methods and be conducted by a laboratory approved by the New York State Department of Health for PCB analysis of solid and hazardous waste.

3.0 SCHEDULE

The Contractor must begin work within two weeks after contract award or TSD facility waste acceptance approval, whichever is later. Site cleanup will not begin until Con Edison receives written notification of waste acceptance approval by the TSD facility(s).

4.0 BID DELIVERABLES (TECHNICAL PROPOSAL)

Prospective Contractors will submit a complete technical proposal package as specified herein within any deadline specified by the Company's Purchasing Department. Each Contractor will submit legible, reproducible copies of all documentation specified hereunder. Failure to submit the information specified

below will be cause for determining that the technical proposal is not acceptable. The technical proposals must include the following:

a. A detailed description of the procedures, equipment, and schedule proposed to be used in performing each of the cleanup tasks specified in Section 2.1 above;

b. A description of the procedures and equipment to be used at the site to minimize the potential for cross-contamination, excessive dusting, and spills;

c. A description of all procedures to be used in performing post-cleanup sampling, including PCB bulk and wipe sampling. If a subcontractor will be retained to conduct the post-cleanup sampling, the subcontractor must be fully identified in the technical proposal;

d. The name and address of the DOH-approved laboratory proposed to perform analyses of post-cleanup samples, a description of the laboratory's QA/QC plan, and indication of the laboratory's routine turnaround time for PCB bulk and wipe samples;

e. A complete description of the transportation/disposal scheme for each waste stream (including non-hazardous waste streams) expected to be generated during the cleanup activities. The prospective Contractor must sufficiently describe the sequence of the events tracking the movement of the wastes from Maspeth Substation to the sites of their final treatment and/or disposal and indicate the anticipated amount of time needed to obtain waste acceptance approval from each proposed TSD facility. A completed and executed Attachment I must be included in the technical proposal for each anticipated waste stream. If the prospective contractor wishes to propose alternate transporters and/or TSD facilities, these must be identified on separate Attachment I forms. The Attachment I form may be reproduced for these purposes.

5.0 OTHER PROVISIONS

The successful bidder may be required to submit, prior to commencement of the cleanup work, all or some of the following information and documents related to the proposed waste transporters and TSD facilities:

a. A copy of the current Spill Prevention, Control, and Countermeasure (SPCC) Plan or Contingency Plan for each TSDF that will handle any liquid waste removed from the Company sites;

b. A copy of a contingency plan for each transporter (regardless of the waste type transported) describing how to handle spill cleanup and a list of spill re-

sponse equipment maintained on their vehicles. If emergency response firms for over-the-road waste material spills are employed, the prospective Contractor will define each firm's geographical area of responsibility and an estimate of each firm's response time;

c. Copies of all pertinent federal, state, and local permits complete with terms and conditions and other documents necessary to transport waste and to operate waste storage, treatment, and disposal facilities. Contractor's proposal must include a complete permit package for each subcontractor. Such permits, licenses, notifications, and other forms of governmental approval will include, as appropriate:

- EPA RCRA ID numbers to transport hazardous waste and/or EPA PCB waste ID numbers to transport PCB waste;

- Current New York State Waste Transporter Permit(s) pursuant to 6NYCRR 364 (hereinafter "364 Permit") specifying the waste types and treatment, storage, and disposal (TSD) facilities identified in the Contractor's transportation/disposal schemes;

- All other state and local permits, licenses, governmental approvals, and notices of registration necessary to transport the waste types (expected to be generated by the cleanup activities at the Company site) to each and every TSDF listed in the proposal. The prospective contractor will list all states to be traversed and will identify those states that do not require a waste transporter permit. Copies of required waste transporter permits must be included - a list of permit numbers and expiration dates is unacceptable;

- EPA RCRA and/or PCB facility ID numbers to treat, store, or dispose of hazardous waste;

- All federal, state, and/or local permits to treat, store, or dispose of waste for each and every TSDF listed in the proposal; and

- For TSDFs operating under interim status (e.g., RCRA facilities, commercial PCB storage facilities), a copy of RCRA Part A and/or commercial PCB storage facility applications, as applicable, as well as an indication of the permit issuance status; and

d. A complete listing, including status and disposition, of any notices of violation, citations, and administrative, civil, and criminal complaints issued within the last 3 years, by any federal, state or local agency for any and all of the transfer, storage, treatment, and disposal site(s) and facilities described in the

proposal. If no such notices, citations, or complaints were issued, so state in the proposal. Contractor shall also supply a copy of any correspondence received from federal or state agencies relating to the most recent federal or state compliance inspection of their site(s) and shall provide a copy of any response to such correspondence. If no such correspondence was received or no response made, so state in the proposal. Notices of violation, citations, and complaints (administrative, civil or criminal) etc. received by Contractor after the submission of its bid but before the award of the contract shall also be provided to Con Edison within one week of their receipt by Contractor. Failure to provide all such results of inspections, notices, citations, etc, as clearly delineated in this paragraph shall be grounds for finding the Contractor's technical proposal to be unacceptable and for terminating any contract awarded without further liability on behalf of Con Edison.

Notices of violation and/or inspection results received during the term of this contract shall likewise be submitted within one week of their receipt. Failure to provide these items within the time specified shall be deemed a breach of a material provision of the contract awarded and shall entitle Con Edison, at its option, to terminate such contract without further liability on its part.

The Company reserves the right to inspect Contractor's (and any subcontractor's) site(s) and facilities, and to review pertinent on-site documentation pertaining to the transport and treatment or disposal of the wastes prior to and at any time after the award of contract. All proposed subcontractors, including but not limited to transporters, TSD facilities, and analytical laboratories are subject to approval by the Company. After the Company's acceptance of the proposal, any changes in or replacement of any subcontractor must be pre-approved by the Company. The request for such a change and its approval will be in writing.

6.0 CONTRACTOR'S EXCEPTIONS

All sections of the technical specification to which Contractor takes exception must be clearly identified by their page, paragraph, and sentence. Contractor must succinctly describe how these sections could hamper operations or impose undue operating constraints. For each section to which an exception has been taken by Contractor, Contractor shall suggest alternative methods. Said alternative methods shall be sufficient both to enable Contractor to expeditiously transport and treat or dispose of the wastes and to satisfy Con Edison that the aforesaid will be performed in accordance with all pertinent federal, state and local laws, and regulations, ordinances, directives, and orders.

7.0 BID SITE VISIT

All prospective contractors are required to take a part in a bid site visit. The time and location of this site visit will be announced by the Company's Purchasing Department in the invitation for bids. Bids from vendors who do not participate in the site visit will not be accepted.

MASPETH SUBSTATION CLEANUP SPECIFICATION - ATTACHMENT I

TRANSPORTER AND DISPOSAL FACILITY CERTIFICATION

INSTRUCTION:
1) Detach and complete this form for each waste stream. Make copies of this form if necessary.
2) An officer of the firm must sign and date this form.
3) Submit form(s) with technical proposals.

Contractor: _____

Waste Stream: _____

1. WASTE TRANSPORTERS

Transporter #1

Name: _____

Address: _____

Town,State,Zip: _____

EPA ID: _____

Transporting From: _____
To: _____

Transporter #2

Name: _____

Address: _____

Town,State,Zip: _____

EPA ID: _____

Transporting From: _____
To: _____

Transporter #3

Name: _____

Address: _____

Town,State,Zip: _____

EPA ID: _____

Transporting From: _____
To: _____

2. TREATMENT, STORAGE, AND DISPOSAL FACILITIES (Including Temporary Storage)

TSDF #1

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

Activity*: _____

Waste Acceptance Criteria**: _____

TSDF #2

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

Activity*: _____

Waste Acceptance Criteria**: _____

TSDF #3

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

Activity*: _____

Waste Acceptance Criteria**: _____

* Identify activity: storage, the type of treatment, or the manner of disposal (e.g., landfilled, incineration, etc.).

** Specify tests required and the acceptance criteria. Attach another sheet if necessary.

3. STATEMENT OF CERTIFICATION

I certify that the foregoing information is accurate and complete, and that the waste(s) will be removed, transported, treated, and/or disposed of in accordance with all applicable federal, state and local laws, regulation, ordinances, directives, and orders.

I also certify that the designated treatment, storage, and disposal facilities (TSDFs) identified above are authorized and have the capacity to receive the waste type named above, and that the designated disposal methods will be provided, and that the designated transporters are authorized to deliver the waste to the designated TSDFs.

_____ _____

Date Signature

_____

Name

_____

Title or Position

_____

Firm's Name

TABLE 1

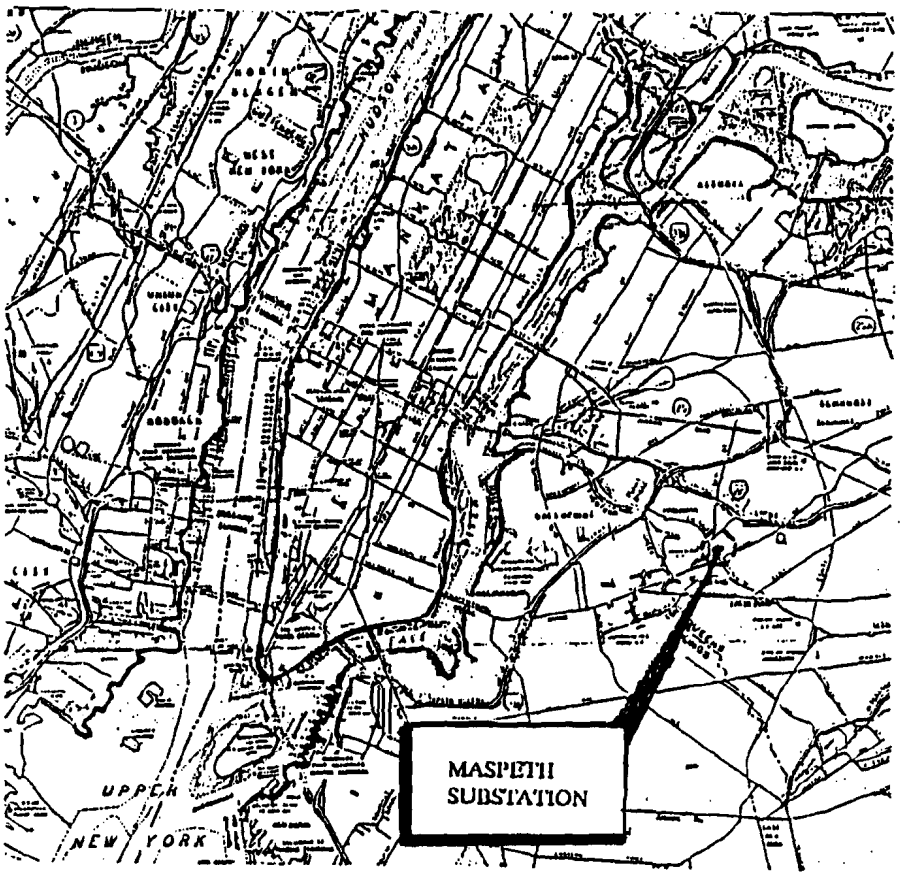
SUMMARY OF PCB CONCENTRATIONS FOR YARD AREAS SHOWN IN FIGURE 2

Area	PCB Concentration Range (ppm)
A	1-43
B	1-97
C	3-30
D	3-13
E	35-3,590; most areas >50 ppm; some areas >1,000 ppm
F	4-62
G	12-21

TABLE 2

SUMMARY OF TRANSFORMER VAULT PCB CONCENTRATIONS

Vault No.	Bulk Concentration (ppm)	Wipe Concentration ($ug/100\ cm^2$)
1	5	<5
2	1-6	<4, except one sample on W. wall (28)
3	<10	<5, except one sample on S. wall (22)
4	<10	<5, except one sample on E. wall (12) and one sample on W. wall (22)
5	<10	<6, except one sample on E. Wall of rear area (17)
6	10-16	4-28



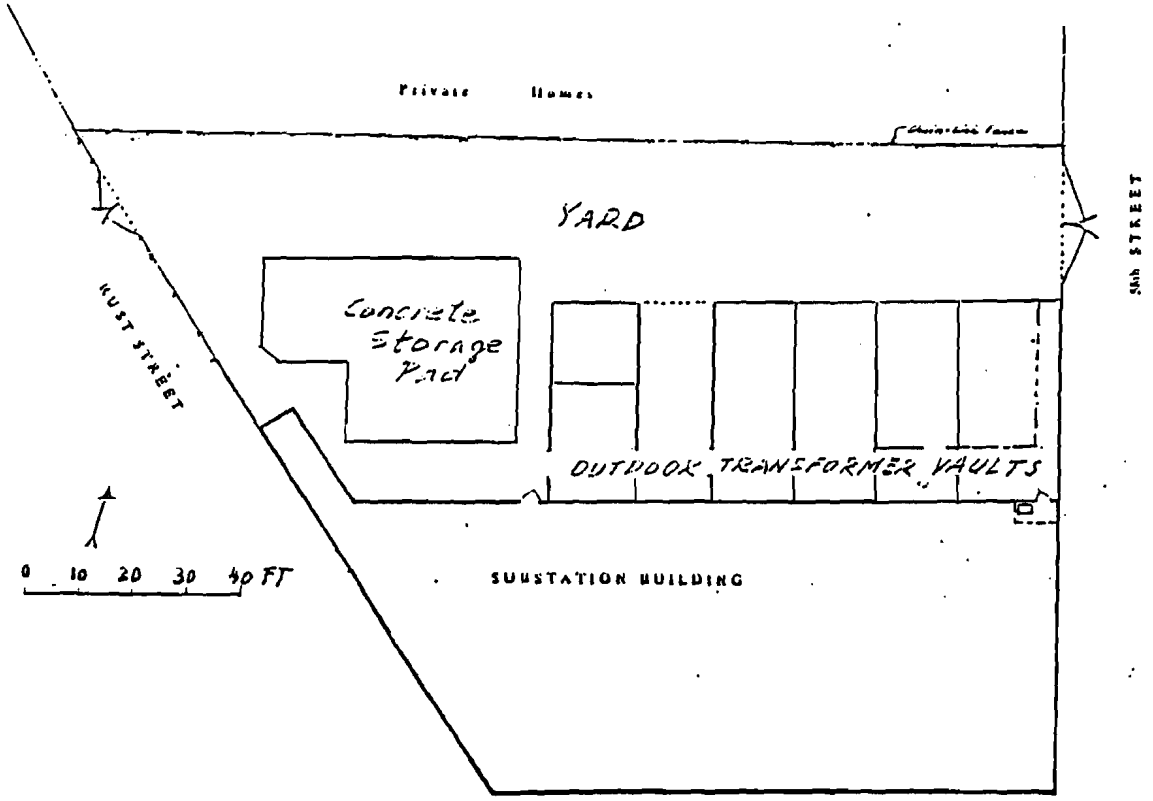


Figure 1: MASPETH SUBSTATION - GENERAL LOCATION MAP

FIGURE 2
MASPETH SUBSTATION
CRUSHED STONE/SOIL EXCAVATION
REQUIREMENTS

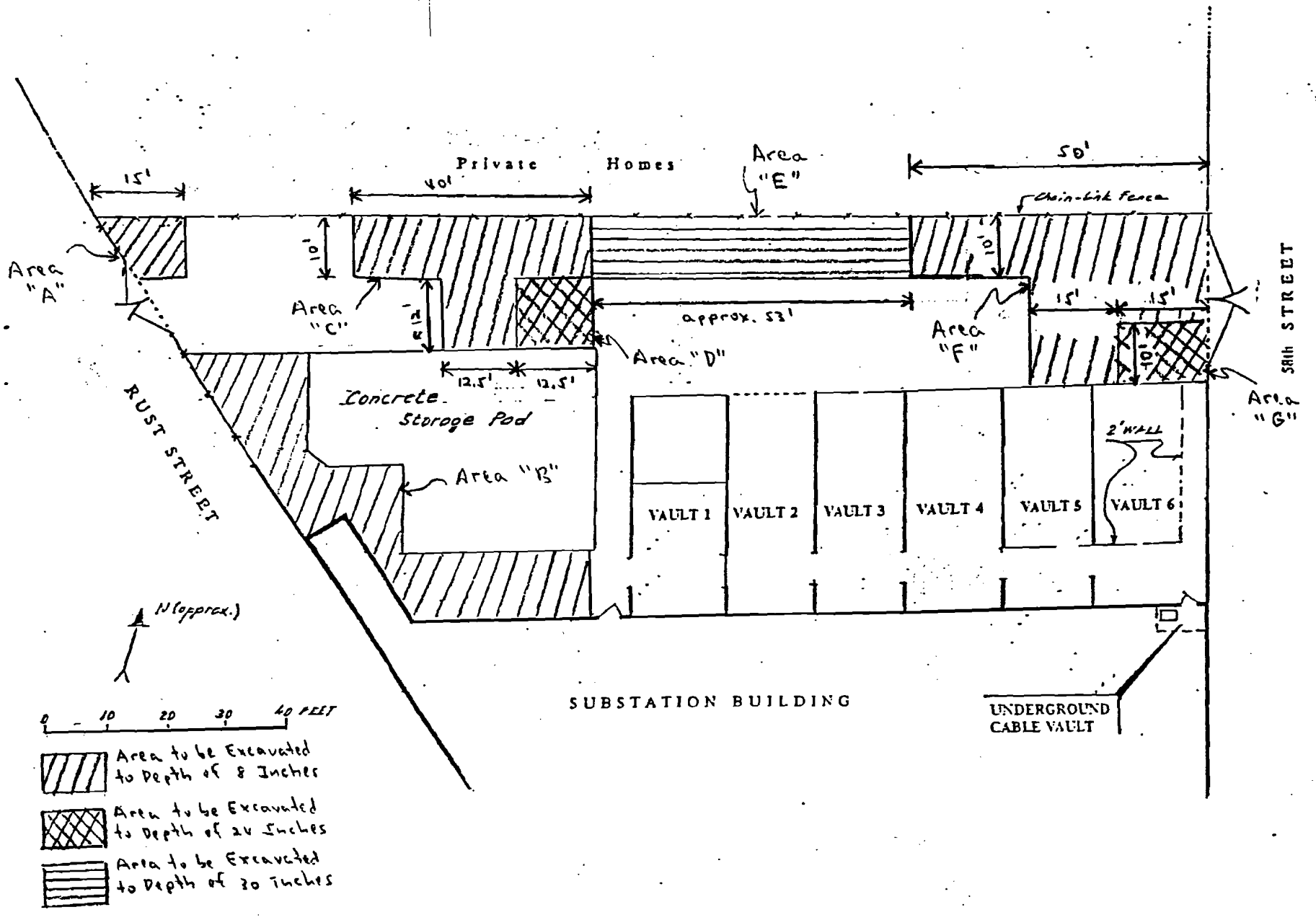


Figure 3

MASPETH SUBSTATION
Queens, New York

PRE-SALE CLEANUP - DECONTAMINATION OF STRUCTURES

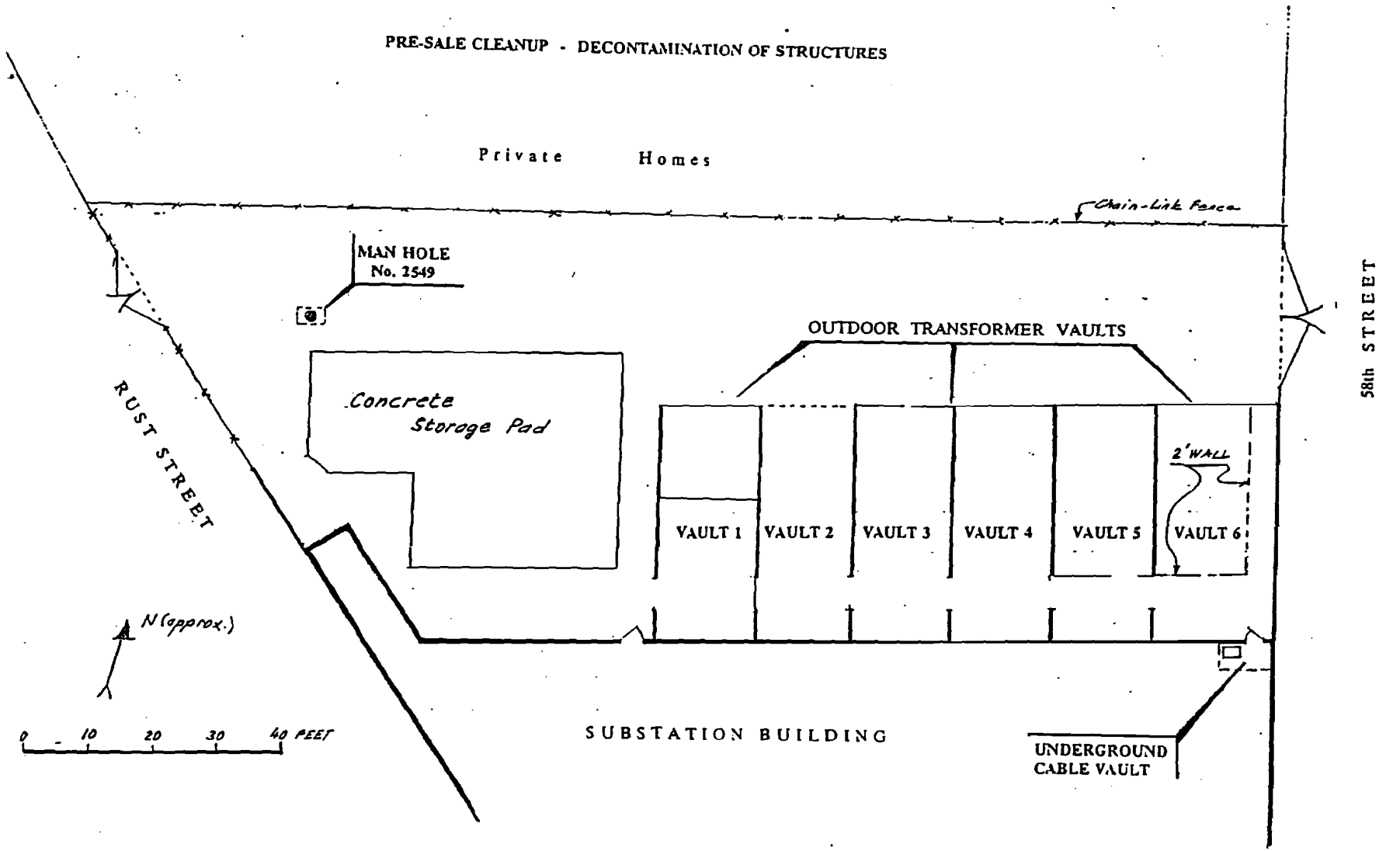


EXHIBIT 5

Technical ~~Specifications~~ Specifications for Asbestos
Abatement of Haspath Substation

EXHIBIT 5

TECHNICAL SPECIFICATION FOR ASBESTOS

ABATEMENT OF MASPETH SUBSTATION

Consolidated Edison Company of New York, Inc.
4 Irving Place
New York, New York 10003

TECHNICAL SPECIFICATION FOR ASBESTOS ABATEMENT OF MASPETH SUBSTATION

Environmental Affairs
Water and Waste Management

Prepared by: _____
Date: March 30, 1992

Approved by: _____
Date: 3/30/92

1.0 INTRODUCTION AND BACKGROUND

Consolidated Edison Company of New York, Inc. (the Company) shall remove from the retired Maspeth Substation located in Queens, New York (see Figure 1) any friable asbestos containing material (ACM) that is loose or otherwise presents a hazard.

The purpose of this solicitation is to retain a contractor who shall perform, according to the Company specifications, asbestos abatement of the Maspeth Substation. Before the Contractor begins abatement activities at the substation, the Company shall have de-energized the substation with exception of auxiliary lights and power.

2.0 SERVICES TO BE PERFORMED BY CONTRACTOR

The Contractor shall furnish to the Company all supervision, labor, vehicles, tools, and any other equipment and materials as required to perform asbestos abatement of the retired substation and to remove and properly dispose of all ACM waste generated during the abatement activities. The Contractor shall perform all on-site as well any off-site work associated with this contract in accordance with all applicable federal, state, and local laws, rules, regulations, and ordinances and in accordance with the procedures described herein and specified in the Contractor's proposal.

Prior to initiation of abatement at the site, the Contractor shall have an opportunity to visit the site and discuss the work scope with an authorized Company representative. The Contractor shall then be required to prepare a site specific work plan fully describing: (i) the sequence of pre-abatement and abatement activities; (ii) locations of work areas (if entire area is not the work area) along with methods of preparation and location of barriers (isolation barriers, poly, etc.); (iii) location of worker and waste decontamination system enclosures; (iv) utilities required from Con Edison; and (v) variances required (identifying similar situations where identical variances were obtained).

The Contractor's work plan must be approved by the Company before the abatement work is initiated. The Contractor shall be required to complete the entire abatement using the methods described in this specification, the Contractor's work plan proposal, and any Con Edison approved modifications to the work plan proposal.

2.1 Abatement Activities

Asbestos Containing Material (ACM) must be removed and handled in accordance with applicable federal (e.g., Environmental Protection Agency,

Department of Transportation, and Occupational Safety and Health Administration), New York State (e.g., Department of Labor: Industrial Code Rule 56; and Department of Environmental Conservation: Part 364 Waste Transporter Permits and Part 360 Solid Waste Management Facilities), and New York City (e.g., Department of Environmental Protection Asbestos Control Program and Department of Sanitation) regulations. This requirement includes, but is not limited to, the obligation to use asbestos workers certified by the local regulatory authorities and properly permitted waste transporters, transfer stations and disposal facilities. Con Edison, in its sole discretion, retains the right to disapprove the use of any transporter, transfer station, or disposal facility.

Asbestos abatement at the Maspeth substation shall include the following tasks:

2.1.1 Removal of Transite Walls Enclosing Outdoor Transformer Vaults

The front walls of five outdoor concrete transformer vaults consist of a total of about 2,500 square feet of ACM transite board. These walls shall be removed and disposed of as ACM waste.

2.1.2 General Decontamination and Cleaning of All Interior Floors and Surfaces

Dust and debris, suspected to contain ACM and lead paint, are present throughout the Equipment and Control Rooms and must be removed by workers in protective equipment under a controlled environment. Approximately 375 damaged or disassembled transite cabinet panels ranging in size from 2' x 4' to 4' x 6' shall be treated as ACM and removed during this cleaning. These transite panels total approximately 5,600 square feet. All waste generated from these activities shall be disposed of as ACM waste.

2.1.3 Removal of Overhead Conduit Insulation

Approximately 270 linear feet of overhead 3" conduit on three separate runs within the Equipment Room are insulated with a suspected ACM coating. The insulation shall be removed and disposed of ACM waste.

2.1.4 Removal of Boiler Insulation

Approximately 10 square feet of ACM insulation shall be removed from the interior of the boiler and disposed of as ACM waste.

2.2 Waste Transport and Disposal

All ACM designated for removal shall be wetted and double-bagged and disposed of in a landfill specifically permitted to accept ACM waste. It shall be Contractor's responsibility to demonstrate to Con Edison's satisfaction that proposed landfills possess all required licenses and permits to receive wastes to be disposed of there.

Off-site transport of ACM waste must be conducted by a transporter possessing a valid state Waste Hauler Permit that allows the waste to be hauled to the designated treatment, storage and disposal facility. Waste transport must be in accordance with the New York State Department of Transportation, U.S Department of Transportation, and Environmental Protection Agency regulations and guidelines. The Contractor shall provide and complete all applicable labels, placards, markings, manifest forms, and shipping papers.

All off-site shipments of ACM waste for interim storage, transfer, or disposal shall be properly manifested. The waste hauler shall use a waste disposal manifest meeting all USEPA and USDOT requirements contained in 40 CFR 61 and 49 CFR 172.

The approved ACM waste hauler completes all required sections of the waste disposal manifest prior to presenting it to the Con Edison representative for signature. The waste hauler also signs the form, giving the first copy to the Con Edison representative. The remaining pages of the form shall accompany the waste shipment to the landfill and the waste hauler shall have the landfill operator sign the form and any other required waste receipts. The waste hauler and landfill operator shall each retain one copy. The landfill operator shall also return signed copies of the form to the Con Edison representative and the Contractor. If the Con Edison representative has not received signed copies back from the landfill within 35 calendar days from the shipment date, the Company shall notify the Contractor, who shall provide the required manifest copy within the next ten calendar days. Should the Contractor fail to comply, the Company shall notify, in accordance with 40 CFR 61.150, the Chief, Air Compliance Branch, USEPA Region II.

All prospective Contractors should note that Con Edison reserves the right to arrange for disposal of any or all wastes under separate contractual arrangements.

2.3 Cleanup Verification

In general, the Contractor shall maintain daily work sheets where it shall

record all cleanup activities, off-site waste shipments, and any other important site activities taking place during each day. At the end of each working day, the Contractor's site supervisor shall sign the daily work sheet. The Company on-site representative shall verify completion of the work tasks performed by the Contractor, summarize his/her findings on the Contractor's daily work sheet, and shall also sign the work sheet. The Contractor shall provide the Company on-site representative with one copy of a properly executed daily work sheet for each working day.

Con Edison shall engage a third party to conduct ACM cleanup verification in accordance with the cleanup procedures and clearance air monitoring requirements of New York City Asbestos Control Program Regulations. Contractor shall be responsible for any personal air monitoring required for its workers.

3.0 SCHEDULE

The Contractor must begin work within two weeks after contract award.

4.0 BID DELIVERABLES (TECHNICAL PROPOSAL)

Prospective Contractors shall submit a complete technical proposal package as specified herein within any deadline specified by the Company's Purchasing Department. Each Contractor shall submit legible, reproducible copies of all documentation specified hereunder. Failure to submit the information specified below shall be cause for determining that the technical proposal is not acceptable. The technical proposals must include the following:

4.1 A detailed description of the procedures, equipment, and schedule proposed to be used in performing each of the abatement tasks specified in Section 2.1 above;

4.2 A complete description of the transportation/disposal scheme for ACM waste expected to be generated during abatement activities. A completed and executed Attachment I must be included in the technical proposal. If the prospective contractor wishes to propose alternate transporters, these must be identified on separate Attachment I forms. The Attachment I form may be reproduced for these purposes.

5.0 OTHER PROVISIONS

Con Edison shall file all required city, state, and federal notifications for the project. At no time shall the Contractor file any notifications, but shall notify the Company's on-site representative if any additional notifications are required. The Contractor

shall promptly notify the Company of any changes that require notification (e.g., completion date, use of equipment/methods not specified in the initial notification, change in transporter, etc.). Should the Contractor desire variances during the course of this project, the Company shall file appropriate applications. Any costs associated with this filing and any delay in the project while waiting for agency approval of the variance shall be borne by the Contractor.

The successful bidder may be required to submit, prior to commencement of the cleanup work, all or some of the following information and documents related to each proposed waste transporter and treatment, storage, and disposal facility (TSDF):

5.1 A copy of a contingency plan for each transporter (regardless of the waste type transported) describing how to handle spill cleanup and a list of spill response equipment maintained on their vehicles. If emergency response firms for over-the-road waste material spills are employed, the prospective Contractor shall define each firm's geographical area of responsibility and an estimate of each firm's response time;

5.2 Copies of all pertinent federal, state, and local permits complete with terms and conditions and other documents necessary to transport waste and to operate waste TSDF's. Contractor's proposal must include a complete permit package for each subcontractor. Such permits, licenses, notifications, and other forms of governmental approval shall include, as appropriate:

5.2.1 Current New York State Waste Transporter Permit(s) pursuant to 6NYCRR 364 (hereinafter "364 Permit") specifying the waste types and TSDF's identified in the Contractor's transportation/disposal schemes;

5.2.2 All other state and local permits, licenses, governmental approvals, and notices of registration necessary to transport the ACM waste to each TSDF listed in the proposal. Copies of required waste transporter permits must be included - a list of permit numbers and expiration dates is unacceptable;

5.2.3 All federal, state, and/or local permits to store, transfer, or dispose of ACM waste for each TSDF listed in the proposal; and

5.2.4 For TSDF's operating under interim status (e.g., consent orders), permit applications, as applicable, as well as an indication of the permit issuance status.

5.3 A complete listing, including status and disposition, of any notices of violation, citations, and administrative, civil, and criminal complaints issued within the last 3 years, by any federal, state or local agency for any and all of the

transfer, storage, treatment, and disposal site(s) and facilities described in the proposal. If no such notices, citations, or complaints were issued, so state in the proposal. Contractor shall also supply a copy of any correspondence received from federal or state agencies relating to the most recent federal or state compliance inspection of their site(s) and shall provide a copy of any response to such correspondence. If no such correspondence was received or no response made, so state in the proposal. Notices of violation, citations, and complaints (administrative, civil or criminal), etc., received by Contractor after the submission of its bid but before the award of the contract shall also be provided to Con Edison within one week of their receipt by Contractor. Failure to provide all such results of inspections, notices, citations, etc., as delineated in this paragraph shall be grounds for finding the Contractor's technical proposal to be unacceptable and for terminating any contract awarded without further liability on behalf of Con Edison.

5.4 Notices of violation and/or inspection results received during the term of this contract shall be submitted to Con Edison within one week of their receipt. Failure to provide these items within the time specified shall be deemed a breach of a material provision of the contract awarded and shall entitle Con Edison, at its discretion, to terminate such contract without further liability on its part.

5.5 The Company reserves the right to inspect Contractor's and any subcontractor's site(s) and facilities, and to review pertinent on-site documentation pertaining to the transport and disposal of the wastes prior to and at any time after the award of contract. All proposed subcontractors, including but not limited to transporters and TSDF's are subject to approval by the Company. After the Company's acceptance of the proposal, any changes in or replacement of any subcontractor must be pre-approved by the Company. The request for such a change and its approval shall be in writing.

6.0 CONTRACTOR'S EXCEPTIONS

All sections of this technical specification to which Contractor takes exception must be clearly identified by their page, paragraph, and sentence. Contractor must succinctly describe how these sections could hamper operations or impose undue operating constraints. For each section to which an exception has been taken by Contractor, Contractor shall suggest alternative methods. Said alternative methods shall be sufficient both to enable Contractor to expeditiously remove, transport and dispose of the wastes and to satisfy Con Edison that the aforesaid shall be performed in accordance with all pertinent federal, state and local laws, and regulations, ordinances, directives, and orders.

7.0 BID SITE VISIT

All prospective contractors are required to take part in a bid site visit. The time and location of this site visit shall be announced by the Company's Purchasing Department in the invitation for bids. Bids from vendors who do not participate in the site visit shall not be accepted.

ATTACHMENT I
MASPETH SUBSTATION ASBESTOS ABATEMENT SPECIFICATION

TRANSPORTER AND DISPOSAL FACILITY CERTIFICATION

INSTRUCTIONS:
1) Detach and complete this form. Complete a separate form for each alternate waste transporter considered.
2) An officer of the firm must sign and date this form.
3) Submit form with technical proposals.

Contractor: _____

1. WASTE TRANSPORTERS

Transporter #1

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

Transporting From: _____

To: _____

Transporter #2

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

Transporting From: _____

To: _____

Transporter #3

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

Transporting From: _____

To: _____

2. TREATMENT, STORAGE, AND DISPOSAL FACILITIES (Including Temporary Storage)

TSDF #1

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

TSDF #2

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

TSDF #3

Name: _____

Address: _____

Town, State, Zip: _____

EPA ID: _____

3. STATEMENT OF CERTIFICATION

I certify that the foregoing information is accurate and complete, and that ACM waste shall be removed, transported, treated, and/or disposed of in accordance with all applicable federal, state, and local laws, regulations, ordinances, directives, and orders.

I also certify that the designated treatment, storage, and disposal facilities (TSDF's) identified above are authorized and have the capacity to receive the waste type named above, and that the designated disposal methods shall be provided, and that the designated transporters are authorized to deliver the waste to the designated TSDF's.

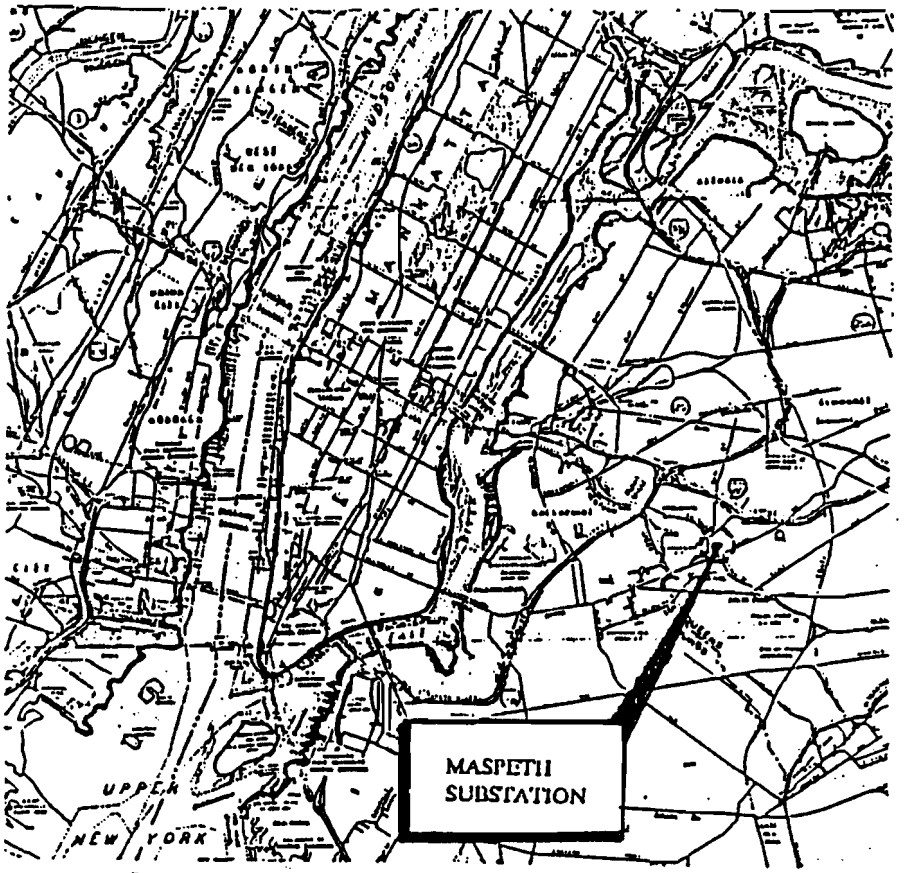
_____ Date

_____ Signature

_____ Name

_____ Title or Position

_____ Firm's Name



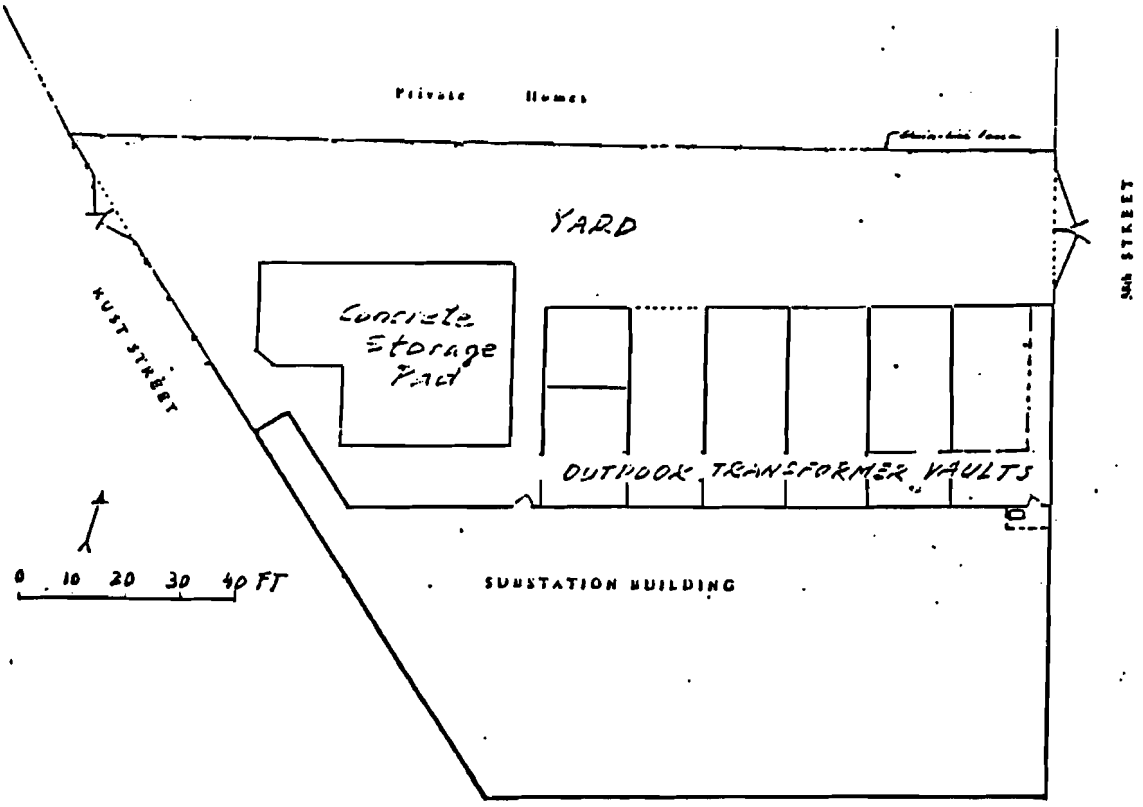


Figure 1: MASPETH SUBSTATION - GENERAL LOCATION MAP

EXHIBIT 6

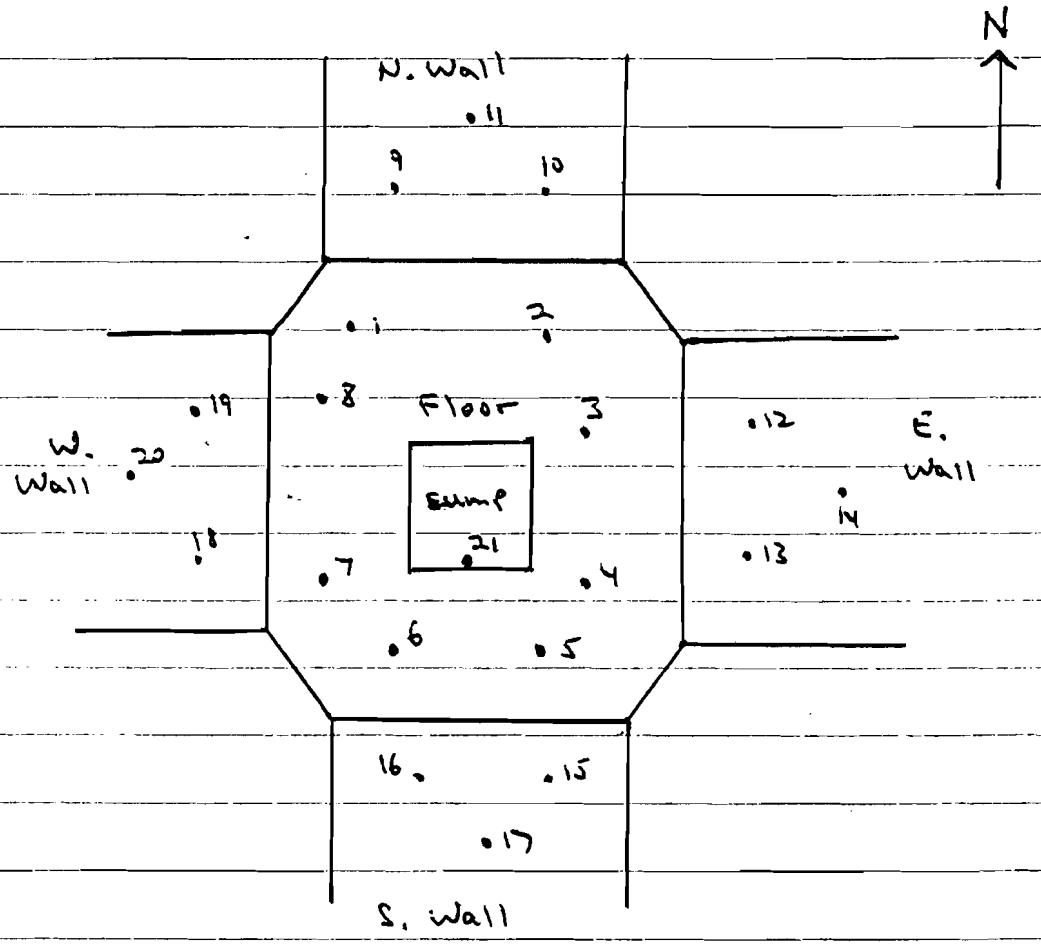
POST-CLEANUP SAMPLE RESULTS FOR

ELECTRICAL MANHOLE NO. 2549

Maspeth Substation

PCB Wipe Sampling in MH # 2549 by Chemical Section

1/21/93 (N.T.S.)



Notes

1. MH = prefix for all sample numbers
2. Samples 1-8 : Floor ; samples 9-20 : walls ; sample 21 : S. wall of sump.
3. MH # 2549 is in NW area of yard near concrete pad.
4. Sample locations adjusted when necessary to test apparently-stained areas
5. Wall samples 9, 10, 12, 13, 15, 16, 18, and 19 taken ≈ 2 ft. high,
   wall samples 11, 14, 17, and 20 taken ≈ 4 ft. high.
6. After N. wall was released, N. wall was resampled at location # 9 (Sample # MH-9R) on 4/9/93

Date: Monday, 1 February 1993 9:50am ET
To: COHEN.BA, CHEMLABDATA, EA-LAB.DATA, KEEGAN.R, MARCHON.V
From: CHEMLIMS
Subject: by Barry Cohen 93-00393

FEB. 1 1993

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 93-00393

Date Reported: 01/30/93
Date Received: 01/26/93
Date Sampled: 01/21/93

Submitter: Barry Cohen
Description: WIPES - VAULTS & MANHOLES: MASPETH SUBSTATION
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-001	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-1			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-002	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-2			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-003	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-3			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-004	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-4			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-005	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-5			
	LOCATION :	MASPETH SUBSTATION, QUEENS			

Approved By: P. Franco

FEB. 1 1993

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 93-00393

Date Reported: 01/30/93
Date Received: 01/26/93
Date Sampled: 01/21/93

Submitter: Barry Cohen
Description: WIPES - VAULTS & MANHOLES: MASPETH SUBSTATION
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: P. Franco

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-006	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-6			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-007	SAMPLE TYPE:	WIPE	1260	3.	ugs/100cm^2
	EQUIPMENT :	M.H.-7			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-008	SAMPLE TYPE:	WIPE	None	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-8			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-009	SAMPLE TYPE:	WIPE	1260	10.	ugs/100cm^2
	EQUIPMENT :	M.H.-9			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-010	SAMPLE TYPE:	WIPE	1260	3.	ugs/100cm^2
	EQUIPMENT :	M.H.-10			
	LOCATION :	MASPETH SUBSTATION, QUEENS			

Approved By: P. Franco

FEB. 1 1993

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 93-00393

Date Reported: 01/30/93
Date Received: 01/26/93
Date Sampled: 01/21/93

Submitter: Barry Cohen
Description: WIPES - VAULTS & MANHOLES: MASPETH SUBSTATION
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: P. Franco

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-011	SAMPLE TYPE:	WIPE	1254	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-11			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-012	SAMPLE TYPE:	WIPE	1260	3.	ugs/100cm^2
	EQUIPMENT :	M.H.-12			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-013	SAMPLE TYPE:	WIPE	1260	3.	ugs/100cm^2
	EQUIPMENT :	M.H.-13			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-014	SAMPLE TYPE:	WIPE	1254	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-14			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-015	SAMPLE TYPE:	WIPE	1260	2.	ugs/100cm^2
	EQUIPMENT :	M.H.-15			
	LOCATION :	MASPETH SUBSTATION, QUEENS			

Approved By: P. Franco

FEB. 1 1993

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 93-00393

Date Reported: 01/30/93
Date Received: 01/26/93
Date Sampled: 01/21/93

Submitter: Barry Cohen
Description: WIPES - VAULTS & MANHOLES: MASPETH SUBSTATION
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: P. Franco

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-016	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-16			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-017	SAMPLE TYPE:	WIPE	1254	1.	ugs/100cm^2
	EQUIPMENT :	M.H.-17			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-018	SAMPLE TYPE:	WIPE	1260	1.	ugs/100cm^2
	EQUIPMENT :	M.H.-18			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-019	SAMPLE TYPE:	WIPE	1260	4.	ugs/100cm^2
	EQUIPMENT :	M.H.-19			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-020	SAMPLE TYPE:	WIPE	1254	1.	ugs/100cm^2
	EQUIPMENT :	M.H.-20			
	LOCATION :	MASPETH SUBSTATION, QUEENS			

Approved By: P. Franco

FEB. 1 1993

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 93-00393

Date Reported: 01/30/93
Date Received: 01/26/93
Date Sampled: 01/21/93

Submitter: Barry Cohen
Description: WIPES - VAULTS & MANHOLES: MASPETH SUBSTATION
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: P. Franco

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-021	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-21			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-022	SAMPLE TYPE:	WIPE *	1254	<1.0	ugs/100cm^2
	EQUIPMENT :	C.V.-7 (7R)			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-023	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	C.V.-19 *			
	LOCATION :	MASPETH SUBSTATION, QUEENS			

* wipe sample in underground cable vault. See Exhibit 7.

Approved By: P. Franco

After 2nd cleaning. Resampled location #9, which previously indicated borderline concentration of 10 mg/100 sq. cm.

Date: Monday, 26 April 1993 12:35pm ET
To: COHEN.BA, CHEMLABDATA, EA-LAB.DATA
From: CHEMLIMS
Subject: by Barry Cohen 93-01755

APR 26 1993

CONSOLIDATED EDISON

TECHNICAL SERVICES LABORATORY
SYSTEM & TRANSMISSION OPERATIONS

Lab Sequence Number: 93-01755

Date Reported 04/23/93
Date Received 04/09/93
Date Sampled 04/09/93

Submitter: Barry Cohen
Description: WIPE- MANHOLE 9R WLY: MASPETH SUBSTATION: QUEENS
Facility: Env Aff, 4 Irv Pl Room 309

Analyzed by: A.WILLEN

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON	AROCLOR	RESULTS	UNITS
001	SAMPLE TYPE: WIPE	1254	2.	ug/100cm^2
	EQUIPMENT : MANHOLE 9R WLY			
	LOCATION : MASPETH SUBSTATION, QUEENS			

Approved By: A.WILLEN

EXHIBIT 7

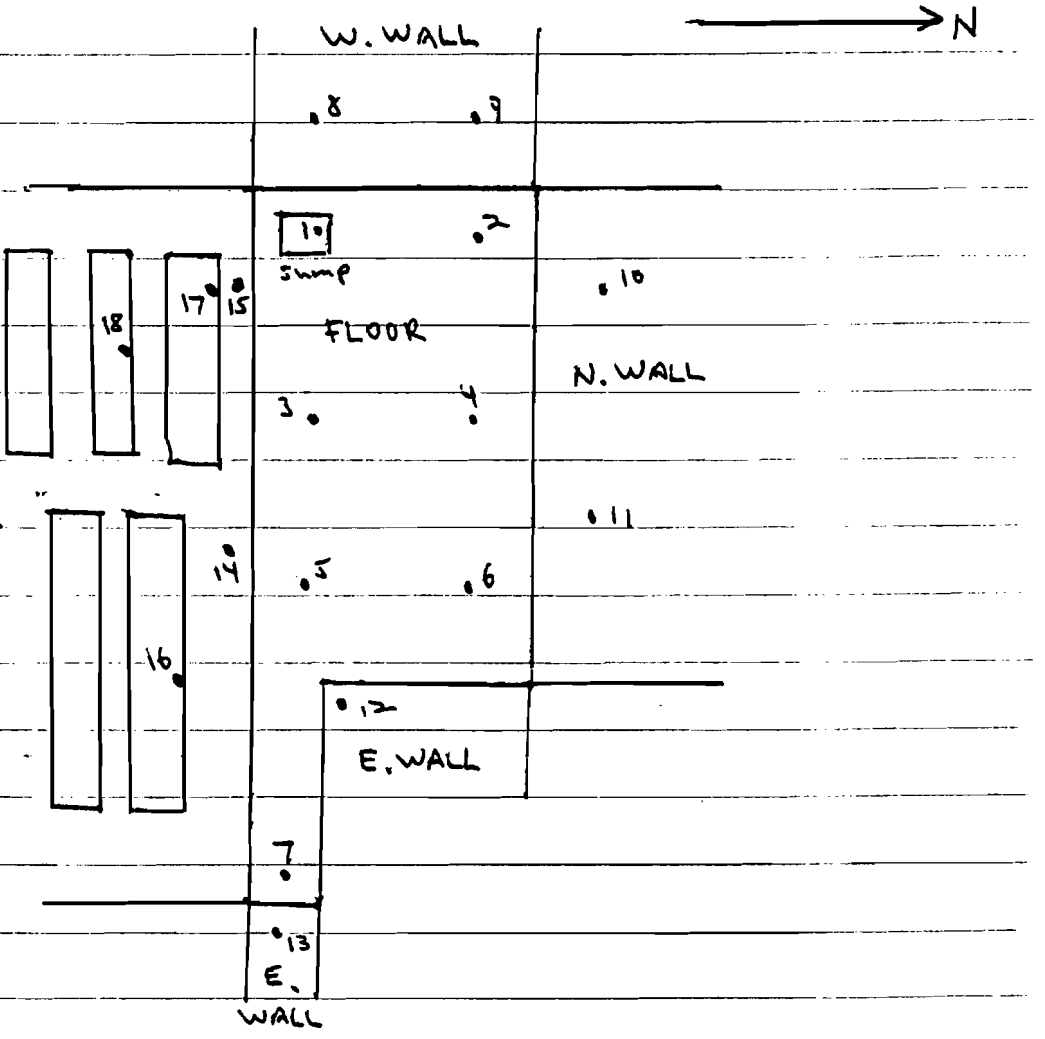
POST-CLEANUP SAMPLING RESULTS FOR

UNDERGROUND CABLE VAULT

Maspeth Substation

PCB Wipe Sampling in Cable Vault by Chemical Section

12/28/92 (N.T.S.)



NOTES

1. Samples taken in stained areas.
2. Cable Vault ~~is~~ is in NE corner of substation bldg. North of vault is outdoor transformer vault.
3. CV = prefix for all sample numbers.

Samples

1 : Wall of sump

2-7 : Floor

8-9 : W. wall (a 2 ft. high)

10 : N. wall (a 2 ft. high)

11 : N. Wall (a 6" high)

12 : E. Wall (a 6" high)

13 : E. wall (a 1 ft. high)

14 : S. Wall (a 6" high)

15 : S. Wall (a 6" high)

16-18 : S. Wall (horizontal surfaces) : indentations.

SYSTEM & TRANSMISSION OPERATIONS
CHEMICAL & METALLURGICAL LABORATORY
ASTORIA - BLDG. #138

REQUEST FOR ANALYSIS

FACILITY / LOCATION: Maspeth Substation MDS CODE: ____

EQUIPMENT: Cable Vault

SAMPLED BY: Dan [illegible] SAMPLED DATE/TIME: 14Jul92 / 1000

REQUESTOR: Barry Cohen REQUESTOR'S EMPLOYEE #: 71889

REQUESTOR'S PHONE # (212) 460-2537 ALTERNATE PHONE # (212) 460-4833

DISTRIBUTION LIST: Robert Keegan / Vic Marchion / ____

DEPT./SECT. CODE: EHS Affairs / ____ ACCOUNT NO. ____

CUSTOMER I/D # ____ (WORK ORDER #, JOB NUMBER, ETC.)

REPORT INFORMATION

RESULTS REQUIRED: 1 DAY ____ 2 DAYS ____ 1 WEEK X 2 WEEKS ____ OTHER ____

JUSTIFICATION REQUIRED FOR 1 OR 2 DAY TURNAROUND ____

REASON FOR SUBMITTAL: Substation cleanup verification

TESTS REQUIRED: PCB's (Samples CV1-CV18)

CHAIN OF CUSTODY RECORD

NUMBER OF SAMPLES SUBMITTED 18 TYPE Wipes DATE: 14Jul92 TIME: 1015

TRANSFER FROM REQUESTOR	ACCEPTED BY DRIVER	RECEIVED AT ASTORIA LAB
PRINT [illegible]	PRINT ____	PRINT ____
SIGN [illegible]	SIGN ____	SIGN ____
RETAIN COPY 1	RETAIN COPY 2	RETAIN ORIGINAL

Date: Thursday, 31 December 1992 11:45am EST
To: COHEN.BA, CHEMLABDATA, EA-LAB.DATA, KEEGAN.F, MARCHON.V
From: CHEMLIMS
Subject: by Barry Cohen 92-06642

DEC. 31 1992

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 92-06642

Date Reported: 12/30/92
Date Received: 12/28/92
Date Sampled: 12/28/92

Submitter: Barry Cohen
Description: WIPES - CABLE VAULT: MASPETH SUBSTATION, QUEENS
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON	AROCLOR	RESULTS	UNITS
-001	SAMPLE TYPE: WIPE EQUIPMENT : CV-1 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	1.	ugs/100cm^2
-002	SAMPLE TYPE: WIPE EQUIPMENT : CV-2 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	<1.0	ugs/100cm^2
-003	SAMPLE TYPE: WIPE EQUIPMENT : CV-3 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	<1.0	ugs/100cm^2
-004	SAMPLE TYPE: WIPE EQUIPMENT : CV-4 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	<1.0	ugs/100cm^2
-005	SAMPLE TYPE: WIPE EQUIPMENT : CV-5 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	<1.0	ugs/100cm^2

Approved By: W. FORDE

DEC. 31 1992

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 92-06642

Date Reported: 12/30/92
Date Received: 12/28/92
Date Sampled: 12/28/92

Submitter: Barry Cohen
Description: WIPES - CABLE VAULT: MASPETH SUBSTATION, QUEENS
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-006	SAMPLE TYPE:	WIPE	1254	1.	ugs/100cm^2
	EQUIPMENT :	CV-6			
	LOCATION :	CABLE VAULT: MASPETH S/S, QNS.			
-007	SAMPLE TYPE:	WIPE	1254	13.	ugs/100cm^2
	EQUIPMENT :	CV-7			
	LOCATION :	CABLE VAULT: MASPETH S/S, QNS.			
-008	SAMPLE TYPE:	WIPE	None	<1.0	ugs/100cm^2
	EQUIPMENT :	CV-8			
	LOCATION :	CABLE VAULT: MASPETH S/S, QNS.			
-009	SAMPLE TYPE:	WIPE	None	<1.0	ugs/100cm^2
	EQUIPMENT :	CV-9			
	LOCATION :	CABLE VAULT: MASPETH S/S, QNS.			
-010	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	CV-10			
	LOCATION :	CABLE VAULT: MASPETH S/S, QNS.			

Approved By: W. FORDE

DEC. 31 1992

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

ab Sequence Number: 92-06642

Date Reported: 12/30/92
Date Received: 12/28/92
Date Sampled: 12/28/92

ubmitter: Barry Cohen
escription: WIPES - CABLE VAULT: MASPETH SUBSTATION, QUEENS
acility: Env Aff, 4 Irv Pl Room 300

nalyzed by: SA Laboratory

*** PCB ANALYSIS ***

AMPLE D	DESCRIPTON	AROCLOR	RESULTS	UNITS
911	SAMPLE TYPE: WIPE EQUIPMENT : CV-11 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	2.	ugs/100cm^2
912	SAMPLE TYPE: WIPE EQUIPMENT : CV-12 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	<1.0	ugs/100cm^2
913	SAMPLE TYPE: WIPE EQUIPMENT : CV-13 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	<1.0	ugs/100cm^2
914	SAMPLE TYPE: WIPE EQUIPMENT : CV-14 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	<1.0	ugs/100cm^2
915	SAMPLE TYPE: WIPE EQUIPMENT : CV-15 LOCATION : CABLE VAULT: MASPETH S/S, QNS.	1260	1.	ugs/100cm^2

Approved By: W. FORDE

DEC. 1. 1992

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 92-06642

Date Reported: 12/30/92
Date Received: 12/29/92
Date Sampled: 12/28/92

Submitter: Barry Cohen
Description: WIPES - CABLE VAULT MASPETH SUBSTATION, QUEENS
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE	DESCRIPTION		AROCLOR	RESULTS	UNITS
1	SAMPLE TYPE:	WIPE	1260	5.	ug/100sq.cm
	EQUIPMENT :	CV-16			
	LOCATION :	CABLE VAULT MASPETH 1-2, ENS.			
2	SAMPLE TYPE:	WIPE	None	<1.0	ug/100sq.cm
	EQUIPMENT	CV-17			
	LOCATION	CABLE VAULT MASPETH 1-2, ENS.			
3	SAMPLE TYPE:	WIPE	None	<1.0	ug/100sq.cm
	EQUIPMENT	CV-18			
	LOCATION :	CABLE VAULT MASPETH 1-2 ENS.			

Approved By: W. FORDE

Maspeth Substation

PCB Wipe Sampling by Chemical Section

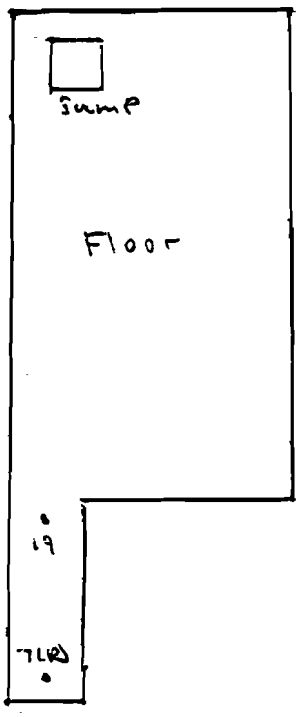
1/21/93 (N.T.S.)

Cable Vault

→ N

Note

1. Cable vault is in NE corner of substation bldg. North of vault is outdoor transformer vault.
2. CV = prefix for all sample nos.



FEB. 1 1993

CONSOLIDATED EDISON

LABORATORY DIVISION
POWER GENERATION SERVICES

Lab Sequence Number: 93-00393

Date Reported: 01/30/93
Date Received: 01/26/93
Date Sampled: 01/21/93

Submitter: Barry Cohen
Description: WIPES - VAULTS & MANHOLES: MASPETH SUBSTATION
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: P. Franco

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-021	SAMPLE TYPE:	WIPE *	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	M.H.-21			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-022	SAMPLE TYPE:	WIPE	1254	<1.0	ugs/100cm^2
	EQUIPMENT :	C.V.-7 (7R)			
	LOCATION :	MASPETH SUBSTATION, QUEENS			
-023	SAMPLE TYPE:	WIPE	1260	<1.0	ugs/100cm^2
	EQUIPMENT :	C.V.-19			
	LOCATION :	MASPETH SUBSTATION, QUEENS			

* Wipe sample taken in manhole no. 2549, See Exhibit 6.

Approved By: P. Franco

EXHIBIT 8

MID-CLEANUP SAMPLE RESULTS FOR

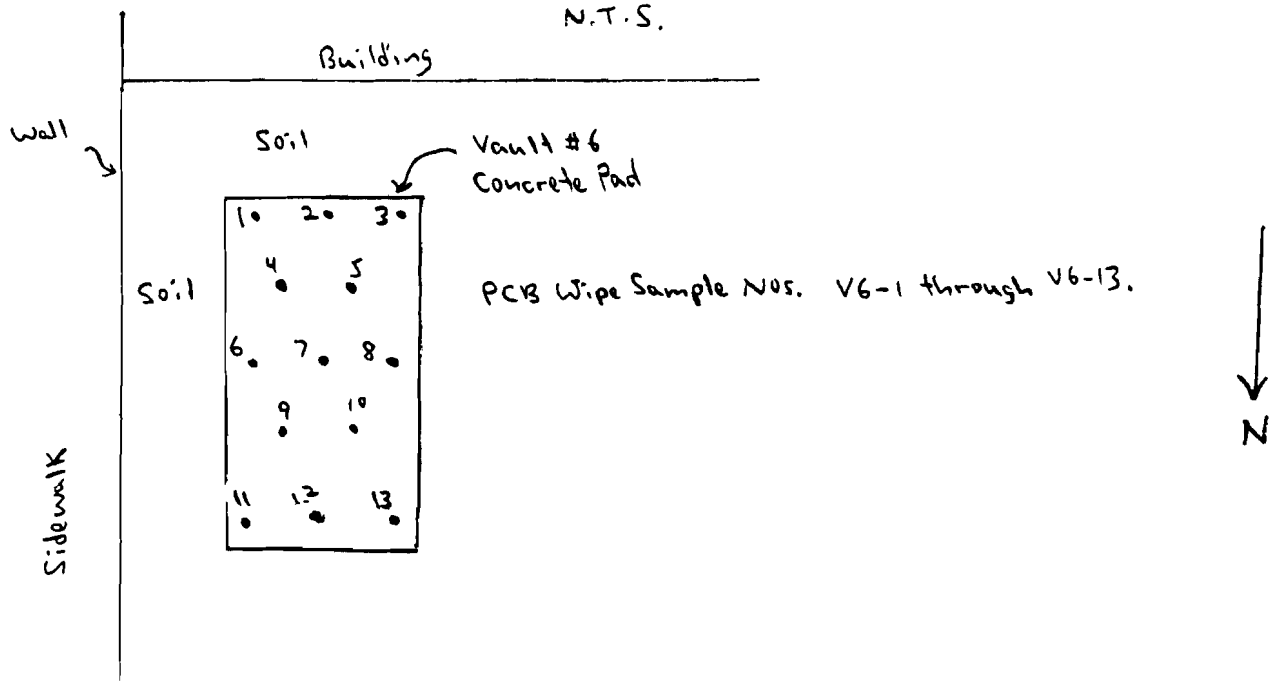
VAULT NO. 6 AND

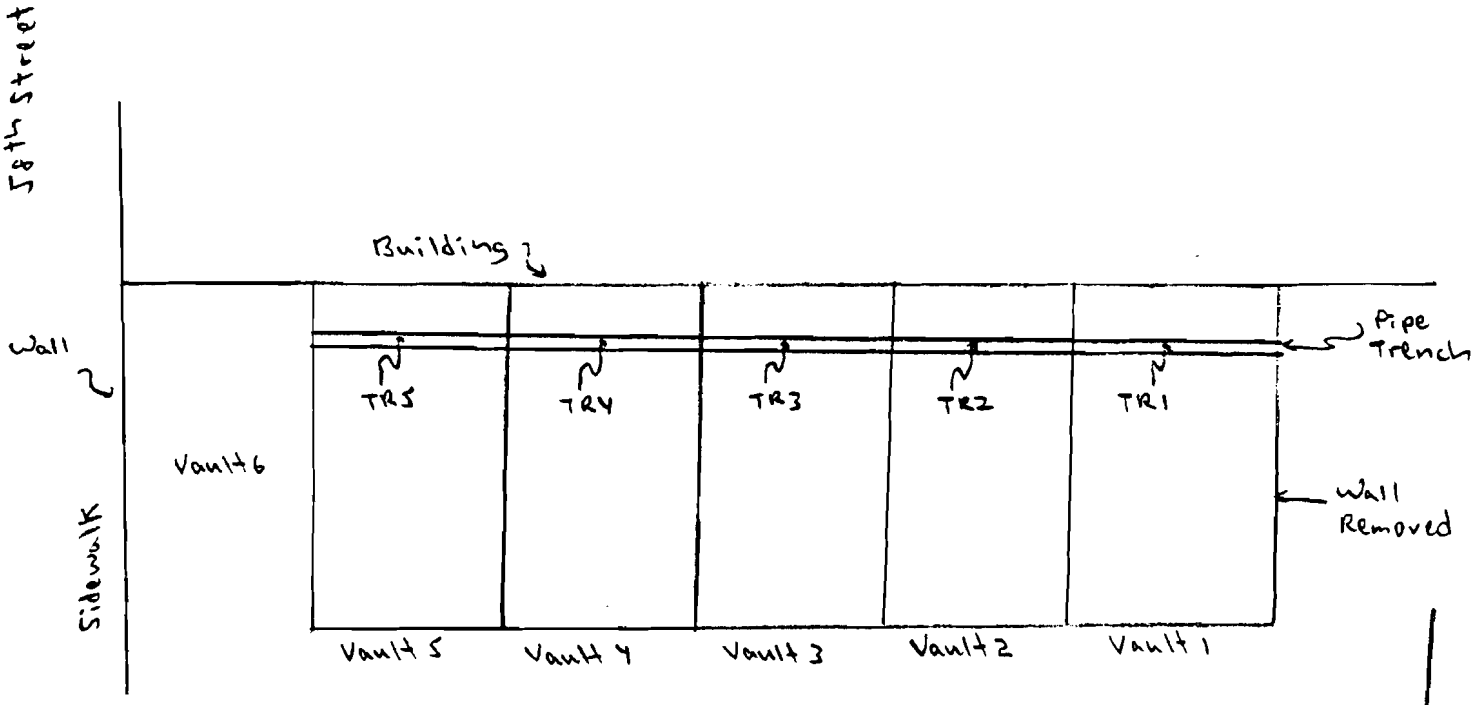
PRE-CLEANUP SAMPLE RESULTS FOR

CONCRETE TRENCH

PCB Sampling Locations
Maspeth Substation
DEC. 3, 1993

N.T.S.





Note: All walls between vaults have been completely removed.

1. Samples TR1 - TR5 are composites of soil in trench for their respective vaults.
2. TR-W is a composite of water over the entire length of the trench. Water taken from surface in all areas to make up the composite.

Date: Monday, 13 December 1993 12:28pm ET
To: COHEN.BA, CHEMLABDATA, MARCHON.V
From: CHEMLIMS
Subject: by Barry Cohen 93-06737

DEC. 13 1993

CONSOLIDATED EDISON

TECHNICAL SERVICES LABORATORY
SYSTEM & TRANSMISSION OPERATIONS

Lab Sequence Number: 93-06737

Date Reported: 12/10/93
Date Received: 12/03/93
Date Sampled: 12/03/93

Submitter: Barry Cohen
Description: WIPES/SOILS/WATER - MASPETH SUBSTATION, QUEENS
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON	AROCLOR	RESULTS	UNITS
-001	SAMPLE TYPE: WATER EQUIPMENT : TR WATER LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	<10.0	PPM
-002	SAMPLE TYPE: SOIL EQUIPMENT : TR 1 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	28.	PPM
-003	SAMPLE TYPE: SOIL EQUIPMENT : TR 2 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	12.	PPM
-004	SAMPLE TYPE: SOIL EQUIPMENT : TR 3 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	28.	PPM
-005	SAMPLE TYPE: SOIL EQUIPMENT : TR 4 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	31.	PPM

Approved By: A.KNOBEL

DEC. 13 1993

CONSOLIDATED EDISON

TECHNICAL SERVICES LABORATORY
SYSTEM & TRANSMISSION OPERATIONS

Lab Sequence Number: 93-06737

Date Reported: 12/10/93
Date Received: 12/03/93
Date Sampled: 12/03/93

Submitter: Barry Cohen
Description: WIPES/SOILS/WATER - MASPETH SUBSTATION, QUEENS
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON	AROCLOR	RESULTS	UNITS
-006	SAMPLE TYPE: SOIL EQUIPMENT : TR 5 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	53.	PPM
-007	SAMPLE TYPE: WIPE EQUIPMENT : V6-1 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	<1.0	ugs/100cm^2
-008	SAMPLE TYPE: WIPE EQUIPMENT : V6-2 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	None	<1.0	ugs/100cm^2
-009	SAMPLE TYPE: WIPE EQUIPMENT : V6-3 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	<1.0	ugs/100cm^2
-010	SAMPLE TYPE: WIPE EQUIPMENT : V6-4 LOCATION : TRENCH/VAULT FLR: MASPETH S/S	1260	3.	ugs/100cm^2

Approved By: A.KNOBEL

DEC. 13 1993

CONSOLIDATED EDISON

TECHNICAL SERVICES LABORATORY
SYSTEM & TRANSMISSION OPERATIONS

Lab Sequence Number: 93-06737

Date Reported: 12/10/93
Date Received: 12/03/93
Date Sampled: 12/03/93

Submitter: Barry Cohen
Description: WIPES/SOILS/WATER - MASPETH SUBSTATION, QUEENS
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-011	SAMPLE TYPE:	WIPE	1260	1.	ugs/100cm^2
	EQUIPMENT :	V6-5			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			
-012	SAMPLE TYPE:	WIPE	1260	4.	ugs/100cm^2
	EQUIPMENT :	V6-6			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			
-013	SAMPLE TYPE:	WIPE	1260	4.	ugs/100cm^2
	EQUIPMENT :	V6-7			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			
-014	SAMPLE TYPE:	WIPE	1260	4.	ugs/100cm^2
	EQUIPMENT :	V6-8			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			
-015	SAMPLE TYPE:	WIPE	1260	5.	ugs/100cm^2
	EQUIPMENT :	V6-9			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			

Approved By: A.KNOBEL

DEC. 13 1993

CONSOLIDATED EDISON

TECHNICAL SERVICES LABORATORY
SYSTEM & TRANSMISSION OPERATIONS

Lab Sequence Number: 93-06737

Date Reported: 12/10/93
Date Received: 12/03/93
Date Sampled: 12/03/93

Submitter: Barry Cohen
Description: WIPES/SOILS/WATER - MASPETH SUBSTATION, QUEENS
Facility: Env Aff, 4 Irv Pl Room 300

Analyzed by: SA Laboratory

*** PCB ANALYSIS ***

SAMPLE ID	DESCRIPTON		AROCLOR	RESULTS	UNITS
-016	SAMPLE TYPE:	WIPE	1260	4.	ugs/100cm^2
	EQUIPMENT :	V6-10			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			
-017	SAMPLE TYPE:	WIPE	1260	8.	ugs/100cm^2
	EQUIPMENT :	V6-11			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			
-018	SAMPLE TYPE:	WIPE	1260	5.	ugs/100cm^2
	EQUIPMENT :	V6-12			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			
-019	SAMPLE TYPE:	WIPE	1260	8.	ugs/100cm^2
	EQUIPMENT :	V6-13			
	LOCATION :	TRENCH/VAULT FLR: MASPETH S/S			

Approved By: A.KNOBEL