

23.37

RCRA RECORDS CENTER
FACILITY G.E. Pittsfield
I.D. NO. MA0002089093
FILE LOC. R-9
OTHER 213378

**MCP INTERIM PHASE II REPORT AND CURRENT ASSESSMENT SUMMARY
FOR EAST STREET AREA 2/USEPA AREA 4**

VOLUME IX OF XII

**GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS**

AUGUST 1994

**BLASLAND, BOUCK & LEE, INC.
6723 TOWPATH ROAD
SYRACUSE, NEW YORK 13214**

SDMS DocID 000213378



015840



GE-P

**MCP INTERIM PHASE II REPORT AND CURRENT ASSESSMENT SUMMARY
FOR EAST STREET AREA 2/USEPA AREA 4**

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VOLUME IX OF XII

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Appendix J Analytical Data Sheets and Location Plans Associated With
Miscellaneous Site Investigations (Sections A-1 through A-6
and B-1 through B-27)



Appendices



Appendix J

APPENDIX J

**ANALYTICAL DATA SHEETS AND LOCATION PLANS
ASSOCIATED WITH MISCELLANEOUS SITE INVESTIGATIONS**

(Sections A-1 through A-6 and B-1 through B-27)

APPENDIX J, SECTION A-1

DELIVERED TO GRAN
BOWMAN(GE)
11-6-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Robert W. Rhoades
Re: Bldg. 65 Hydrant Excavation Sampling

Date: 05/16/90
File No: 101-75-01
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted on 5/01/90 outside Bldg.65. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by QBG Laboratories has also been included.

PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
65-HD-C1	<2	1	ASPHALT	DISCRETE-GRAB	0"-3"
65-HD-C2	2.6	2	CONCRETE	DISCRETE-CORE	0"-5"
65-HD-C3	<2	3	ASPHALT	DISCRETE-GRAB	0"-3"
65-HD-C4	<2	4	CONCRETE	DISCRETE-CORE	0"-5"
65-HD-C5	<2	5	ASPHALT	DISCRETE-GRAB	0"-3"
65-HD-C6	<2	6	CONCRETE	DISCRETE-CORE	0"-5"
65-HD-C7	45	7	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C8	36	8	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C9	37	9	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C10	43	10	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C11	56	11	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C12	73	12	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C13	56	13	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C14	38	14	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C15	39	15	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C16	45	16	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C17	45	17	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C18	99	18	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C19	75	19	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C20	160	20	SOIL	DISCRETE-GRAB	0'-2'
65-HD-C21	42	21	SOIL	DISCRETE-GRAB	0'-2'

VOC SAMPLING RESULTS METHOD 8240

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
65-HD-C22	(see O&G Lab Report)	22 7-11	SOIL	DISCRETE GRAB FIELD-COMPOSITE-GRAB	0'-2'
65-HD-C23	(see O&G Lab Report)	23 12-21	SOIL	DISCRETE GRAB FIELD-COMPOSITE-GRAB	0'-2'

SEMI-VOC SAMPLING RESULTS METHOD 8270

65-HD-C22	(see O&G Lab Report)	22 7-11	SOIL	DISCRETE GRAB FIELD-COMPOSITE-GRAB	0'-2'
65-HD-C23	(see O&G Lab Report)	23 12-21	SOIL	DISCRETE GRAB FIELD-COMPOSITE-GRAB	0'-2'

see



LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield, MA Job No. 101.75.01

Date Analyzed: 5-2-90 DATE COLLECTED See Below DATE RECEIVED 5-2-90

LAB ID NO.	DATE SAMPLED	PCB	COMMENTS	QC RESULTS
65HD-C1	5-1-90	<2.	asphalt	A
65HD-C2	↓	2.6	concrete	↓
65HD-C3	↓	<2.	asphalt	↓
65HD-C4	↓	↓	concrete	↓
65HD-C5	↓	↓	asphalt	↓
65HD-C6	↓	↓	concrete	↓
A) Duplicate of 65HD-C6		<2. vs.	<2.	
Lab Blank 1	5-2-90			

Comments:

Certification No.: NY034

Units: mg/kg

Authorized: [Signature]

Date: July 27, 1990



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield, MA Job No. 101.75.01

Date Analyzed: 5-2,3-90 DATE COLLECTED See Below DATE RECEIVED 5-2-90

LAB ID NO.	DATE SAMPLED	PCB	COMMENTS	QC RESULTS
65HD-C7	5-1-90	45.	soil	A
65HD-C8		36.		
65HD-C9		37.		
65HD-C10		43.		
65HD-C11		56.		
65HD-C12		73.		
65HD-C13		56.		
65HD-C14		38.		
65HD-C15		39.		
65HD-C16		45.		
65HD-C17		45.		
65HD-C18		99.		
65HD-C19		75.		
65HD-C20		160.		
65HD-C21		42.		
A) Matrix Spike of 65HD-C10		4./3.95	= 101% Recovery	
Duplicate of 65HD-C20		160. vs.	160.	
Matrix Spike of 65HD-C21		4.1/3.95	= 104 % Recovery	
Lab Blank 2	5-2-90	<2.		

Comments:

Certification No.: NY034

Units: mg/kg

Authorized: [Signature]

Date: July 27, 1990



Acid Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 65 Hydrant Excavation Sampling B&B Job No. 101.75.01
65-HD-C22
 SAMPLE NO. K1672 DATE COLLECTED 5-7-90 DATE REC'D. 5-8-90 DATE ANALYZED 5-9-90

ppb		ppb	
2-Chlorophenol	<1900.	2,4,6-Trichlorophenol	<1900.
2-Nitrophenol		4-Chloro-3-methylphenol	<1900.
Phenol		2,4-Dinitrophenol	<9400.
2,4-Dimethylphenol		2-Methyl-4,6-dinitrophenol	
2,4-Dichlorophenol		Pentachlorophenol	
		4-Nitrophenol	

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 UNITS: µg/kg dry weight

Comments:

Benzyl Alcohol	<1900.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<9400.
4-Chloroaniline	<1900.
2-Methylnaphthalene	<1900.
2,4,5-Trichlorophenol	<9400.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<1900.
4-Nitroaniline	<9400.

Elevated detection limits due to matrix interferences.



Acid Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 65 Hydrant Excavation Sampling B&B Job No. 101.75.01
65-HD-C23
 SAMPLE NO. K1673 DATE COLLECTED 5-7-90 DATE REC'D. 5-8-90 DATE ANALYZED 5-9-90

ppb		ppb	
2-Chlorophenol	<1900.	2,4,6-Trichlorophenol	<1900.
2-Nitrophenol		4-Chloro-3-methylphenol	<1900.
Phenol		2,4-Dinitrophenol	<9200.
2,4-Dimethylphenol		2-Methyl-4,6-dinitrophenol	
2,4-Dichlorophenol		Pentachlorophenol	
		4-Nitrophenol	

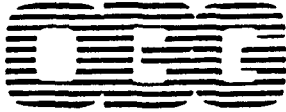
Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 UNITS: $\mu\text{g}/\text{kg}$ dry weight

Comments:

Benzyl Alcohol	<1900.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<9200.
4-Chloroaniline	<1900.
2-Methylnaphthalene	<1900.
2,4,5-Trichlorophenol	<9200.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<1900.
4-Nitroaniline	<9200.

Elevated detection limits due to matrix interferences.

Authorized: Anthony Crescenzi
 Date: May 16, 1990



LABORATORIES, INC.

Base/Neutral Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 65 Hydrant Excavation Sampling B&B Job No. 101.75.01
65-HD-C22

SAMPLE NO. K1672 DATE COLLECTED 5-7-90 DATE REC'D. 5-8-90 DATE ANALYZED 5-9-90

ppb		ppb	
1,3-Dichlorobenzene	<1900.	Diethylphthalate	<1900.
1,4-Dichlorobenzene		N-nitrosodiphenylamine	
1,2-Dichlorobenzene		Hexachlorobenzene	
Hexachloroethane		4-Bromophenyl phenyl ether	
Bis (2-chloroethyl) ether		Phenanthrene	6500.
Bis (2-chloroisopropyl) ether		Anthracene	<1900.
N-Nitrosodi-n-propylamine		Di-n-butyl phthalate	<1900.
Nitrobenzene		Fluoranthene	8100.
Hexachlorobutadiene		Pyrene	7500.
1,2,4-Trichlorobenzene		Benidine	<9400.
Isophorone		Butyl benzyl phthalate	<1900.
Naphthalene		Bis(2-ethylhexyl)phthalate	<1900.
Bis (2-chloroethoxy) methane		Chrysene	6200.
Hexachlorocyclopentadiene		Benzo(a)anthracene	5100.
2-Chloronaphthalene		3,3-Dichlorobenzidine	<3900.
Acenaphthylene		Di-n-octylphthalate	<1900.
Acenaphthene		Benzo(b)fluoranthene	6300.
Dimethyl phthalate		Benzo(k)fluoranthene	4600.
2,6-Dinitrotoluene		Benzo(a)pyrene	4700.
Fluorene		Indeno(1,2,3-cd)pyrene	3800.
4-Chlorophenyl phenyl ether		Dibenzo(a,h)anthracene	<1900.
2,4-Dinitrotoluene		Benzo(g,h,i)perylene	3700.
1,2-Diphenylhydrazine		N-Nitrosodimethyl Amine	<1900.

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 UNITS: $\mu\text{g}/\text{kg}$ dry weight

Comments:

Elevated detection limits due to matrix interferences.

Authorized: *Anthony Curran*
 Date: May 16, 1990



Base/Neutral Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 65 Hydrant Excavation Sampling B&B Job No. 101.75.01
65-HD-C23
 SAMPLE NO. K1673 DATE COLLECTED 5-7-90 DATE REC'D. 5-8-90 DATE ANALYZED 5-9-90

ppb		ppb	
1,3-Dichlorobenzene	<1900.	Diethylphthalate	<1900.
1,4-Dichlorobenzene		N-nitrosodiphenylamine	
1,2-Dichlorobenzene		Hexachlorobenzene	
Hexachloroethane		4-Bromophenyl phenyl ether	
Bis (2-chloroethyl) ether		Phenanthrene	6100.
Bis (2-chloroisopropyl) ether		Anthracene	<1900.
N-Nitrosodi-n-propylamine		Di-n-butyl phthalate	<1900.
Nitrobenzene		Fluoranthene	25,000.
Hexachlorobutadiene		Pyrene	26,000.
1,2,4-Trichlorobenzene		Benzenidine	<10,000.
Isophorone		Butyl benzyl phthalate	<1900.
Naphthalene		Bis(2-ethylhexyl)phthalate	<1900.
Bis (2-chloroethoxy) methane		Chrysene	14,000.
Hexachlorocyclopentadiene		Benzo(a)anthracene	14,000.
2-Chloronaphthalene		3,3-Dichlorobenzidine	<3800.
Acenaphthylene		Di-n-octylphthalate	<1900.
Acenaphthene	2200.	Benzo(b)fluoranthene	17,000.
Dimethyl phthalate	<1900.	Benzo(k)fluoranthene	12,000.
2,6-Dinitrotoluene	<1900.	Benzo(a)pyrene	14,000.
Fluorene	1900.	Indeno(1,2,3-cd)pyrene	8600.
4-Chlorophenyl phenyl ether	<1900.	Dibenzo(a,h)anthracene	<1900.
2,4-Dinitrotoluene		Benzo(g,h,i)perylene	8600.
1,2-Diphenylhydrazine		N-Nitrosodimethyl Amine	<1900.

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 UNITS: $\mu\text{g}/\text{kg}$ dry weight

Comments:

Elevated detection limits due to matrix interferences.

Authorized: Anthony Curcio
 Date: May 16, 1990

V50



Purgeable Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 65 Hydrant Excavation Sampling B&B Job No. 101.75.01
65-HD-C22

SAMPLE NO. K1672 DATE COLLECTED 5-7-90 DATE REC'D. 5-8-90 DATE ANALYZED 5-9-90

ppb		ppb		
Chloromethane	<12.	t-1,3-Dichloropropene	<6.	
Bromomethane	↓	Trichloroethene	↓	
Vinyl chloride		Benzene		
Chloroethane		Dibromochloromethane		
Methylene chloride		1,1,2-Trichloroethane		
1,1-Dichloroethene		c-1,3-Dichloropropene		
1,1-Dichloroethane		2-Chloroethylvinyl ether		<12.
t-1,2-Dichloroethene		Bromoform		<6.
Chloroform		1,1,2,2-Tetrachloroethane		
1,2-Dichloroethane		Tetrachloroethene		
1,1,1-Trichloroethane		Toluene		
Carbon tetrachloride		Chlorobenzene		
Bromodichloromethane		Ethylbenzene		
1,2-Dichloropropane		Xylenes		

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

UNITS: $\mu\text{g}/\text{kg}$ dry weight

Comments:

Percent Total Solids 85.

Acetone	156.
Carbon Disulfide	<6.
2-Butanone	<12.
Vinyl acetate	↓
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<6.

Authorized: Anthony Carozzi
 Date: May 16, 1990



Purgeable Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 65 Hydrant Excavation Sampling B&B Job No. 101.75.01
65-HD-C23

SAMPLE NO. K1673 DATE COLLECTED 5-7-90 DATE REC'D. 5-8-90 DATE ANALYZED 5-9-90

ppb		ppb	
Chloromethane	<18	t-1,3-Dichloropropene	<9
Bromomethane		Trichloroethene	
Vinyl chloride		Benzene	
Chloroethane		Dibromochloromethane	
Methylene chloride	<9	1,1,2-Trichloroethane	
1,1-Dichloroethene		c-1,3-Dichloropropene	
1,1-Dichloroethane		2-Chloroethylvinyl ether	<18
t-1,2-Dichloroethene		Bromoform	<9
Chloroform		1,1,2,2-Tetrachloroethane	
1,2-Dichloroethane		Tetrachloroethene	
1,1,1-Trichloroethane		Toluene	
Carbon tetrachloride		Chlorobenzene	
Bromodichloromethane		Ethylbenzene	
1,2-Dichloropropane		Xylenes	

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

UNITS: $\mu\text{g}/\text{kg}$ dry weight

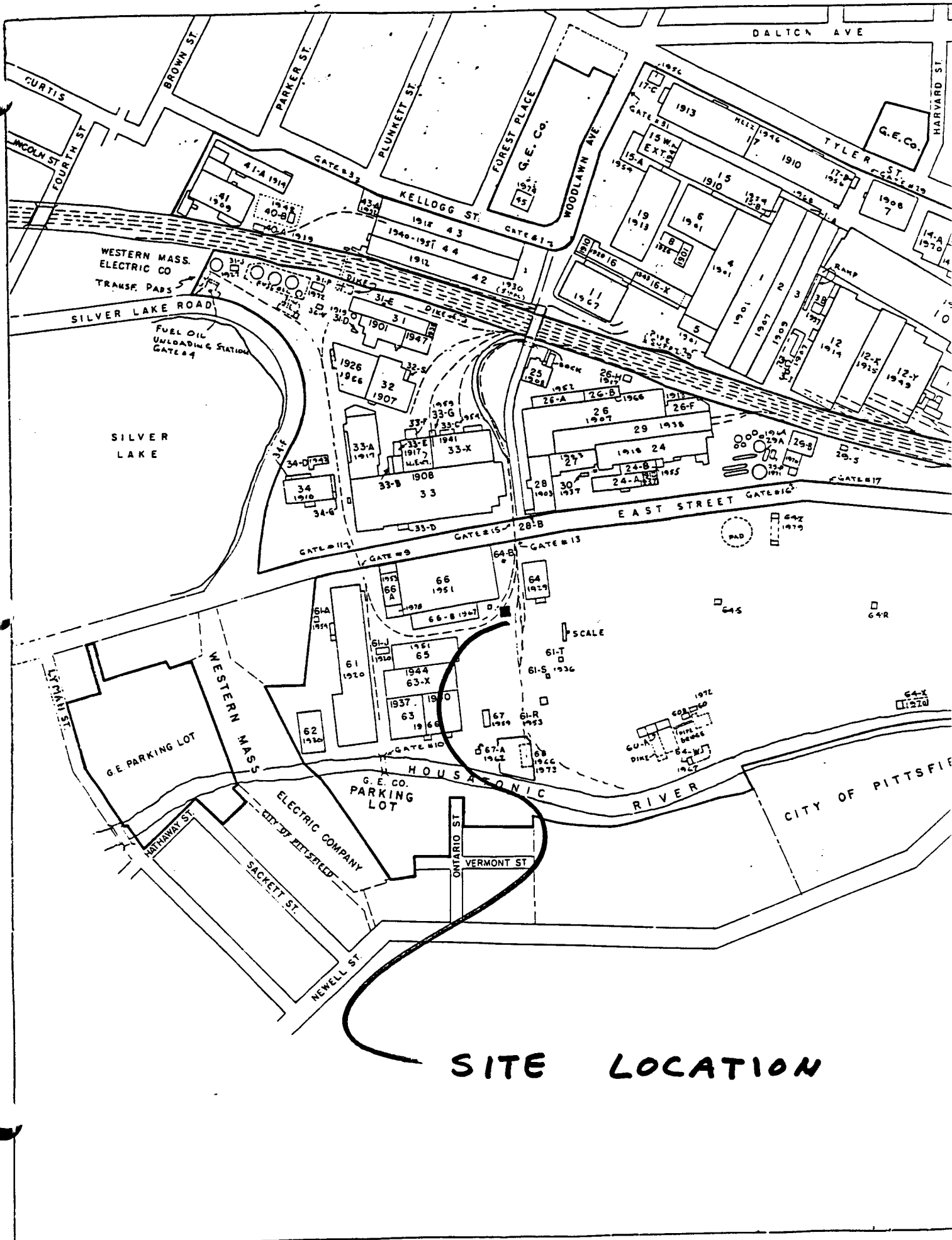
Comments:

Percent Total Solids 87.

Acetone	<u>152.</u>
Carbon Disulfide	<u><9.</u>
2-Butanone	<u><18.</u>
Vinyl acetate	<u>↓</u>
4-Methyl-2-pentanone	<u>↓</u>
2-Hexanone	<u>↓</u>
Styrene	<u><9.</u>

Authorized: Anthony Curcio

Date: May 16, 1990



SITE LOCATION

WATER MAIN

SHEET 1 OF 6

DRAWN BY T.J. [Signature]
ISSUED F.A.J.
GENERAL ELECTRIC CO.
PITTSFIELD, MASS.

APPROVED

113-D

SCALE 1"=40'

STREET

EAST

64

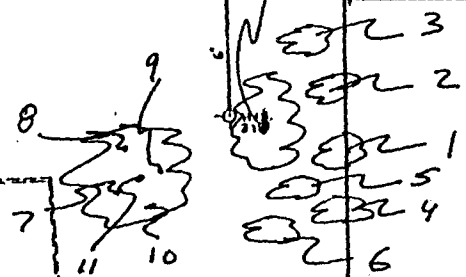
64-B

66

KEY

- ⊗ 4 WAY HYDRANT-VALVE EACH OUTLET
- ⊙ 4 WAY HYDRANT
- ⊕ 2 WAY HYDRANT-VALVE EACH OUTLET
- ⊖ 2 WAY HYDRANT
- ⊙ SPRINKLER RISER
- + VALVE BOX
- + INDICATOR POST
- + VALVE BURIED
- + O.S.P.V. VALVE
- + CHECK VALVE
- SERVICE RISER
- PLUGGED
- FIRE PROT. WATER MAINS
- CITY WATER MAINS
- MIG. 200 - SERVICE WATER
- 532 - SPRINKLER WATER

12-21



61-E

67

BLDG 65 HYDRANT 67-A
EXCAVATION SAMP. □

☁ - PILE + SAMPLE
LOCATION

101-75-01

65

63-E.EXT.

63-N.EXT.

63

66-A

(REF. DWG. T-17-S-1765)
P.B. 22 P. 37

(REF. DWG. 312-D-224)

(REF. DWG. 474-B-632C)
1004 86 93

OR CARRIED
FROM NORTH
R.C.

LOCATION ASSUMED
(BASED ON TELEGRAPH RECORDS)

LOCATION ASSUMED

LOCATION ASSUMED

TO INCINERATOR
AREA
(REF DWG. 113-D-6074
SH.1)

FR. 141
P. 117

HYD
217

FR. 137
P. 89

FR. 81
P. 181

FR. 7

EC-32

SEC. 46

FR. 115

FR. 137

FR. 81

FR. 7

F.B. 115
P. 118

REF. DWGS.
792-D-263 SH. 2
474-B-632A 4 B

(REF. DWG. T-12-S-1765)

(SHUTOFF)
(LENGTH 800')

ENC

APPENDIX J, SECTION A-2

BLASLAND, BOUCK & LEE, INC.

(REQUEST FOR SAMPLING)

TO: Files

DATE: April 5, 1994

FROM: Bruce Eulian

FILE NO: 201.18.15

RE: Bldg 61-R Pit Sampling

INITIATOR: Jeff Ruebesam (GE)

DATE: 3-29-94

LOCATION: Bldg 61-R (outside)

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Oil

PURPOSE: To collect samples for GE to determine the proper disposal method of the oil located in the pits outside of Bldg 61-R.

NOTES: The following sampling program was implemented at the request of Jeff Ruebesam (GE):

1.) Three (3) discrete-grab samples of the oil located in the pits outside of Bldg 61-R are to be collected and analyzed for PCB's.

2.) GE requests the samples collected be analyzed by the Pittsfield GE Laboratory.

jjh

DELIVERED BY
GRANT BOWMAN (GE)
4-6-94

BLASLAND, BOUCK & LEE, INC.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Bldg 61-R Pit Sampling

Date: April 5, 1994
File No: 201.18.15
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 3-30-94 on the oil located in the pits outside of Bldg 61-R.

At the request of Jeff Ruebesam (GE), the following sampling program was implemented:

Three (3) discrete-grab samples of oil were collected and analyzed for PCB's.

Note: SCIENCEWARE "Fast Release Pipette Pumps" and glass pipettes were used to collect the oil from the pits.

A summary table of the sampling program has been provided (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). An analytical report from the Pittsfield GE Laboratory has also been provided (Attachment 1).

jjh

Bldg 61-R Pit Sampling

(201.18.15)

Table 1

PCB SAMPLING RESULTS (METHOD 8080)

LAB ID	SAMPLE DATE	TOTAL PCB's (PPM)	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
61-R-PIT-C1	03-30-94	(SEE GE LAB REPORT)	1	OIL	DISCRETE-GRAB	(0-0.5")	2
61-R-PIT-C2	03-30-94	(SEE GE LAB REPORT)	2	OIL	DISCRETE-GRAB	(0-0.5")	2
61-R-PIT-C3	03-30-94	(SEE GE LAB REPORT)	3	OIL	DISCRETE-GRAB	(0-0.5")	2

NOTE: SCIENCEWARE "Fast Release Pipette Pumps" and glass pipettes were used to collect the oil from the pits.

SUBJECT Bldg. 612 Pit Sampling	PROJ. NO. 201.18.15	BY JPB	DATE 3-30-23	SHEET 1 of 1
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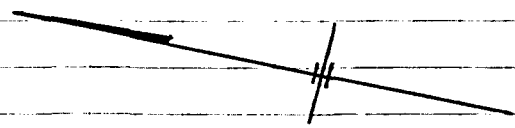
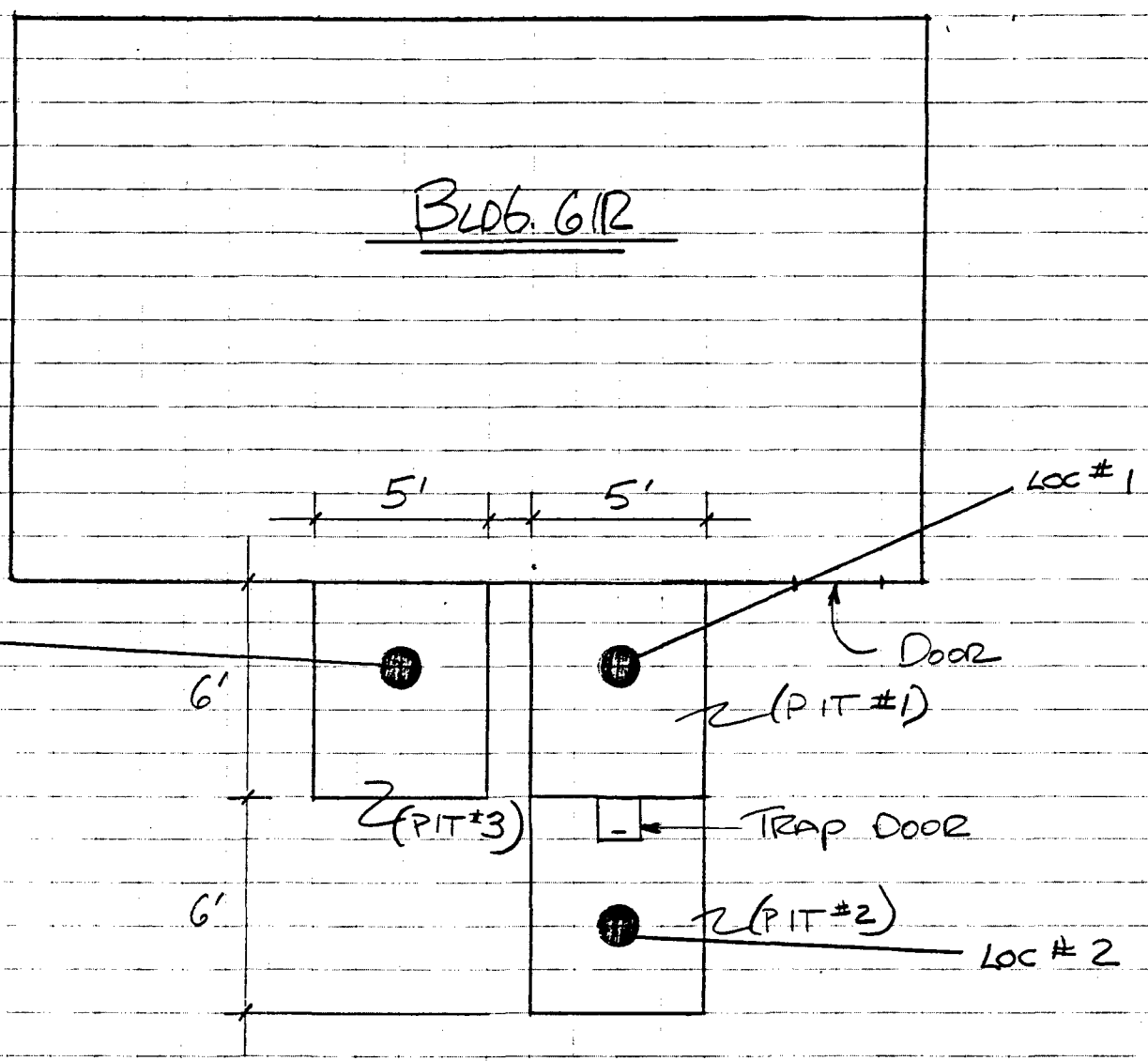


FIGURE 2



NOTES

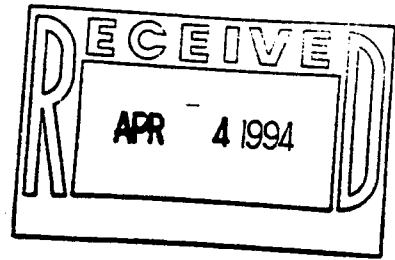
- PIT #1 IS APPROX. 2 1/2' DEEP
- PIT #2 IS APPROX. 1 1/2' DEEP
- PIT #3 IS APPROX. 1 1/2' DEEP

LEGEND
(NOT TO SCALE)

- - DISCRETE GRAB OIL SAMPLE LOCATION

ATTACHMENT 1

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report



LOG NUMBER: P5743

DATE: 4-1-94

REQUESTED BY: J. R. LEBESAM

<u>SAMPLE IDENTIFICATION</u>	<u>Specific Gravity</u>	<u>Total Chlorine %</u>	<u>PCB Concentration</u>
<u>61-R-PIT-C1 3/30/94</u>	<u>.882</u>	<u><1.0</u>	<u>602 ^{ug}/g</u>
<u>61-R-PIT-C2 3/30/94</u>	<u>.872</u>	<u><1.0</u>	<u>674 ^{ug}/g</u>
<u>61-R-PIT-C3 3/30/94</u>	<u>.874</u>	<u><1.0</u>	<u>356 ^{ug}/g</u>

COMMENTS: Bldg 61-R P.N. 201-18-15 oil samples

REPORT BY: JS Vicholson DATE: _____ APPROVED: [Signature]

DISTRIBUTION: Requestor
Laboratory File



Blasland, Bouck & Lee, Inc.

6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	PCBS METHOD 8080				REMARKS
201815		BC06 61-R PIT SAMPLING												
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE TYPE								
						SOLID	MPE	WATER OIL						
61-R-PIT-C1		3-30-94	11:05		X			X	1	X				PER JEFF
61-R-PIT-C2		3-30-94	11:25		X			X	1	X				RUEBESAM (GE)
61-R-PIT-C3		3-30-94	11:55		X			X	1	X				ANALYZE OIL (ONLY)
														FOR PCBS METHOD
														8080
SAMPLED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME	RECEIVED BY: (SIGNATURE)			
<i>[Signature]</i>		3-30-94	11:55	<i>[Signature]</i>			<i>[Signature]</i>			3-31-94	8:50	<i>[Signature]</i> 3/31/94		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME	RECEIVED BY: (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE	TIME	REMARKS					



BLASLAND, BOUCK & LEE, INC.

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: Bldg 61R GE Drum #32180 Sampling
(GE Drum #32180 formerly GE Drum #43041)

DATE: April 15, 1994
FILE NO.: 201.18.15

INITIATOR: Jeff Ruebesam (GE)

DATE: 4-6-94

LOCATION: Bldg 12-STS (Short-Term Storage)

CONTACT PERSON: Aimee Cole (GEC)

EXT: 2534

TEM DESCRIPTION:

1.) Oil

PURPOSE: To collect samples for GE to determine the proper disposal method for the oil in GE Drum #32180 (formerly GE Drum #43041), located in Bldg 12-STS, that originated from the pits outside of Bldg 61R.

NOTES: See attached sample request letter dated 4-6-94.

- 1.)** One (1) field-composite sample of the oil in GE Drum #32180 (formerly GE Drum #43041) is to be collected and analyzed for TCLP Metals Only (Method 1311).
- 2.)** GE requests that the samples collected be delivered to the GE Pittsfield Laboratory for pickup by Alpha Analytical Laboratory.

April 6, 1996

To: B. Eulian - B&B

From: A. Cole - GEC *AC*

Re: Sampling at bldg. 61R

cc, J. Nicholson

*CHANGED TO 32180 BY
J. BUSTAR (L2002)
(57)*

Please take a 1 litre amber jar of oil from drum number 43041 in 12 STS. Have this analyzed for TCLP - metals only (method 1311). Please send this sample to ALPHA via the GE lab.

This is oil skimmed from the pit at bldg. 61R and has PCB in the range of 600 ppm. Please charge this to project number 201-18-15.

The purchase order number for ALPHA is being cut and when that number is available I'll inform Jeff Nicholson and Bill Fessler. Please schedule your sampling to correspond with the courier pick-up date through the GE lab.

DELIVERED TO
GRANT BOWMAN/G
5-6-94



BLASLAND, BOUCK & LEE, INC.

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: Bldg 61R GE Drum #32180 Sampling
(GE Drum # 32180 formerly GE Drum #43041)

DATE: April 14, 1994
FILE NO.: 201.18.15
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted 4-13-94 on the oil in GE Drum # 32180 (formerly GE Drum #43041), located in Bldg 12-ST5, that originated from the pits outside of Bldg 61R.

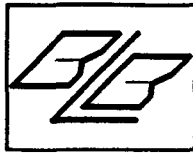
At the request of Aimee Cole (GEC) the following sampling program was implemented:

- One (1) field-composite sample of oil (1/2 liter amber plastic coated jar provided by the Pittsfield GE Laboratory) from GE Drum #32180 (formerly GE Drum #43041) was collected and analyzed for TCLP Metals Only (Method 1311).

Notes:

- The sample was collected using a glass thief.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site locations (Figure 1) and sample locations (Figure 2). Analytical results provided by Alpha Analytical Laboratory (Attachment 1) and a copy of the chain of custody that accompanied these samples have also been included (Attachment 2).



BLASLAND, BOUCK & LEE, INC.

**Bldg 61R GE Drum #32180 Sampling
(GE Drum #32180 formerly GE Drum #43041)**

(201.18.15)

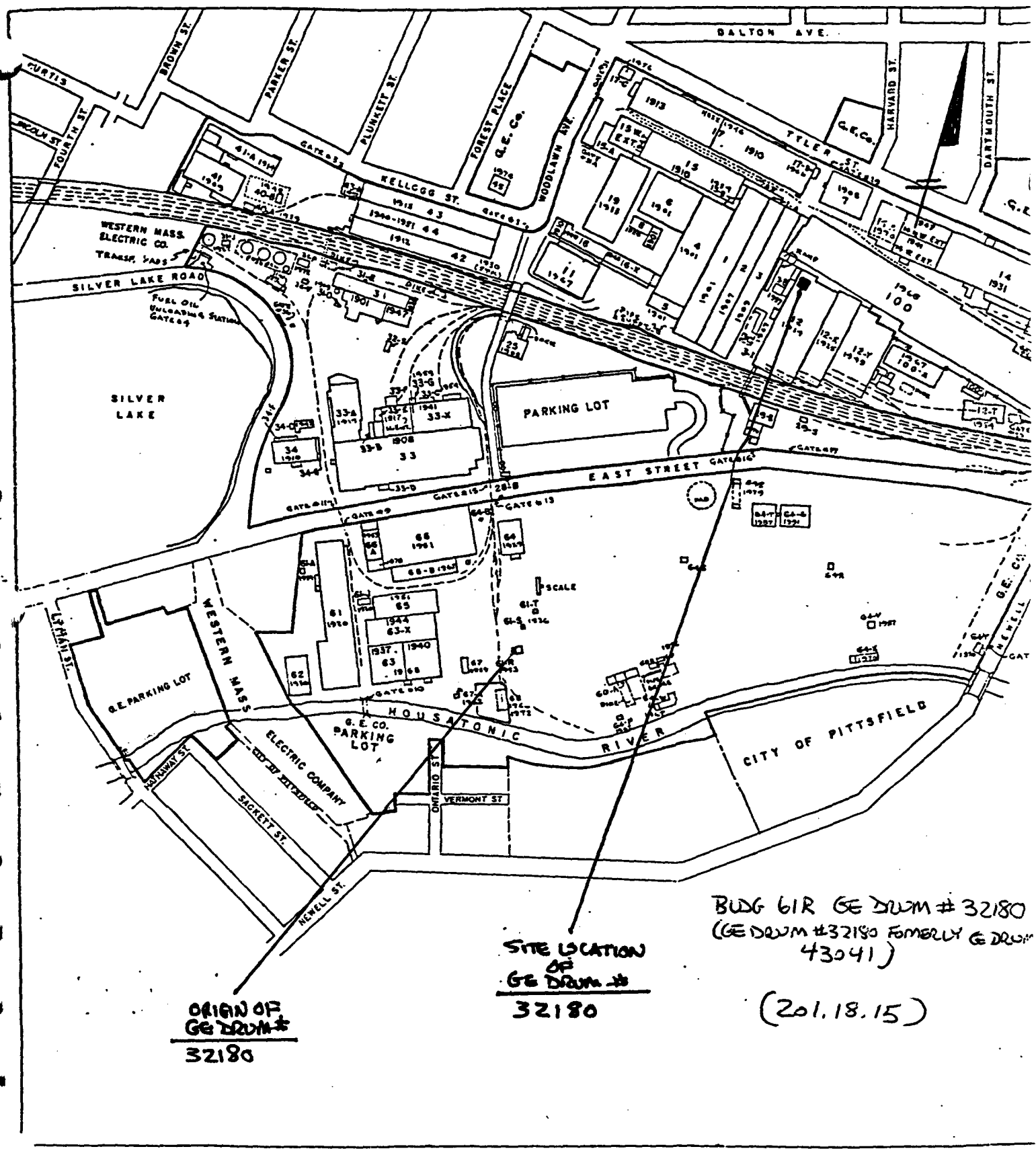
(Table 1)

LAB ID	SAMPLE DATE	TCLP METALS ONLY (METHOD 1311)	GE DRUM #	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
12-STS-32180-C1	4-13-94	SEE ALPHA ANALYTICAL LAB REPORT	32180	OIL	FIELD-COMPOSITE	0-20"	2

NOTE:

- THE SAMPLE WAS COLLECTED USING A GLASS THIEF.

FIGURE 1

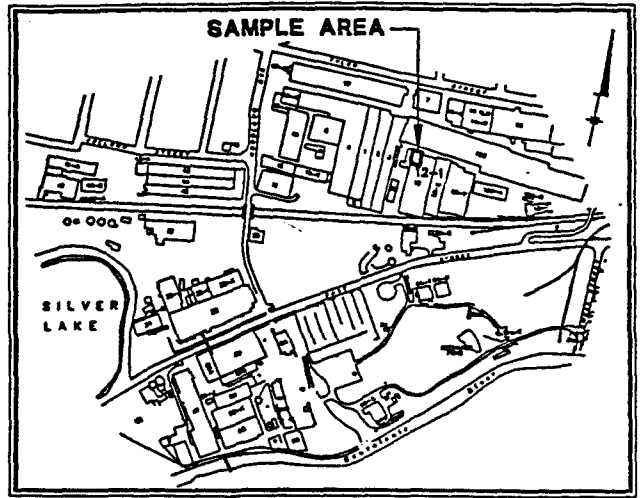
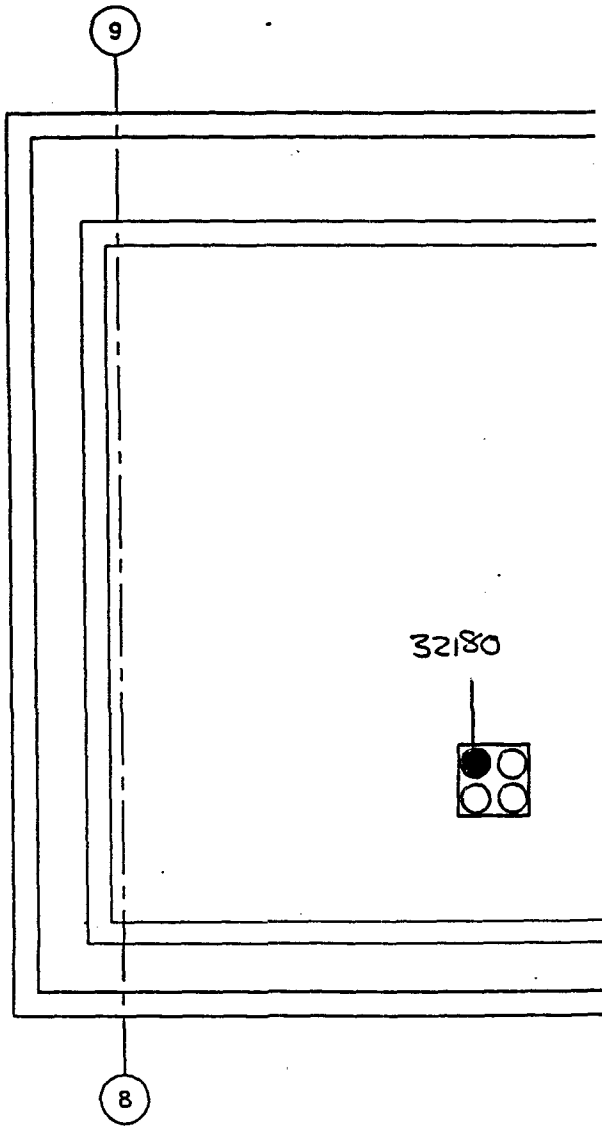


ORIGIN OF
GE DRAW #
32180

SITE LOCATION
OF
GE DRAW #
32180

BUDG 61R GE DRAW # 32180
(GE DRAW #32180 FORMERLY GE DRAW
43041)

(201.18.15)



LOCATION PLAN

LEGEND



— PALLET

32180



— GE DRUM



— GE DRUM SAMPLE LOCATION
(FIELD - COMPOSITE)

32180



NOT TO SCALE

GENERAL NOTE: SAMPLE DELIVERED TO
PITTSFIELD GE LAB FOR PICKUP BY ALPHA
ANALYTICAL LAB FOR TCLP METALS ONLY
(METHOD 1311) ANALYSIS.

BUILDING



BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

BLDG 61R GE DRUM #32180 SAMPLING | FIGURE
(GE DRUM # 32180 FOURTEEN GE DRUM # 43041) | 2

Attachment 1

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analysis of Building 61R Waste Drum

Number: EL-94-012

Test by: Alpha Analytical

Date: May 4, 1994

Report by: WA Fessler

Requested by: A Cole

Approved: *MAJAN*

5-4-94

One oil sample was sent to Alpha Analytical Laboratories for determination of toxicity characteristics due to metals by the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached tables.

This samples did not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
 A Cole 11-205
 JG Ruebesam 11-205
 TW Armstrong Bldg 60

Sample ID	Result	Regulatory Limit	
12-STS-32180-C1	mg/L	mg/L	
Arsenic	< 1	5.000	OK
Barium	0.6	100.000	OK
Cadmium	0.1	1.000	OK
Chromium	< 0.2	5.000	OK
Lead	2.2	5.000	OK
Mercury	< 0.1	0.200	OK
Selenium	< 0.5	1.000	OK
Silver	< 0.1	5.000	OK

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: GE Company

Laboratory Job Number: L9402824

Address: 100 Woodlawn Avenue

Invoice Number: 62161

Pittsfield, MA 01201

Date Received: 15-APR-94

Attn: William A. Fessler

Date Reported: 29-APR-94

Project Number: 201.18.15

Delivery Method: Alpha

Site: Building 61R

ALPHA SAMPLE NUMBER

CLIENT IDENTIFICATION

SAMPLE LOCATION

L9402824-01

12-STS-32180-CL

GE Drum #72180 Sampling Oi

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9402824-01 Date Received: 15-APR-94
 12-STS-32180-CL
 Sample Matrix: OIL Date Reported: 29-APR-94
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1 Misc.

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES PREP ANAL
TCLP Extraction				1 1311	25-APR
Arsenic, TCLP	ND	mg/l	1.0	1 6010	26-Apr 28-
Barium, TCLP	0.60	mg/l	0.50	1 6010	26-Apr 28-
Cadmium, TCLP	0.10	mg/l	0.10	1 6010	26-Apr 28-
Chromium, TCLP	ND	mg/l	0.20	1 6010	26-Apr 28-
Lead, TCLP	2.2	mg/l	0.50	1 6010	26-Apr 28-
Mercury, TCLP	ND	mg/l	0.100	1 7470/7471	28-Apr 28-
Selenium, TCLP	ND	mg/l	0.50	1 6010	26-Apr 28-
Silver, TCLP	ND	mg/l	0.10	1 6010	26-Apr 28-

Comments: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE DUPLICATE ANALYSIS

Laboratory Job Number: L9402824

Parameter	Value 1	Value 2	RPD	Units
TCLP Extraction	DUPLICATE for sample(s) 01			
Mercury, TCLP	ND	ND	NC	mg/l
TCLP Extraction	DUPLICATE for sample(s) 01			
Arsenic, TCLP	ND	ND	NC	mg/l
Barium, TCLP	0.60	ND	NC	mg/l
Cadmium, TCLP	0.10	ND	NC	mg/l
Chromium, TCLP	ND	ND	NC	mg/l
Lead, TCLP	2.2	1.9	15	mg/l
Selenium, TCLP	ND	ND	NC	mg/l
Silver, TCLP	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE SPIKE ANALYSES

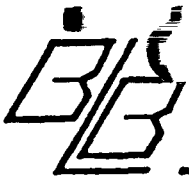
Laboratory Job Number: L9402824

Parameter	% Recovery
TCLP Extraction	SPIKE for sample(s) 01
Mercury, TCLP	70
TCLP Extraction	SPIKE for sample(s) 01
Arsenic, TCLP	62
Barium, TCLP	2
Cadmium, TCLP	60
Chromium, TCLP	59
Selenium, TCLP	60
Silver, TCLP	57

ALPHA ANALYTICAL LABS
ADDENDUM I
REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

Attachment 2



Blasland, Bouck & Lee, Inc.

6723 Tow Path Road, Box 66, Syracuse, New York 13214
 (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME					NO. OF CONTAINERS	TCLP METALS ONLY METHOD 1311				REMARKS	
20.18.15		BLDG GR GE DWM #92180 SAMPLING (OIL)											
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE							
					SOLID	WIPE	WATER OIL						
12-STS-32180	C1	4-13-94	1500		X			X	1	X		(1/2) LIME AMBER PLASTIC COATED JAR (1/2) FULL	
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
<i>James J. Jussell</i>		4-13-94 1500						<i>James J. Jussell</i>		4-14-94 1015		<i>[Signature]</i>	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)				DATE/TIME		REMARKS			
										DELIVERED TO PITTSFIELD GE LAB FOR PICKUP BY ALPHA ANALYTICAL LAB			

APPENDIX J, SECTION A-3

DELIVERED TO GRANT
- BOWMAN (GE) 9-12-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 68-1 Steam Line Excavation Sampling

Date: 9-4-91
File No: 101-75-17
cc: Grant Bowman (GE)
Amie Cole (GS)

The following is a summary of the sample results for the PCB Method 8050, VOC Method 8120, Semi-Volatiles Method 8270, Total Cyanides Method 9010 and RCRA Metals Method 6010\7000's sampling program conducted in Bldg 68-1 on 7-31-91. A drawing showing the sample locations is attached (see figure 1). Analytical reports provided by OBG Laboratories have also been included.

PCB SAMPLING RESULTS METHOD 8050

LAB ID	TOTAL PCB PPH	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
68-1-SE-C1	8500	1	SOIL	DISCRETE-GRAB	0-1'
68-1-SE-C5	5800	2	CONCRETE	DISCRETE-GRAB	0-6"
68-1-SE-C7	380	3	SOIL	DISCRETE-GRAB	0-6"
68-1-SE-C8	730	4	SOIL	DISCRETE-GRAB	0-8"
68-1-SE-C9	280	5	SOIL	DISCRETE-GRAB	0-15"
68-1-SE-C10	270	6	SOIL	DISCRETE-GRAB	0-24"

VOC SAMPLING RESULTS METHOD 8240

68-1-SE-C2	(SEE OBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-1'
68-1-SE-C11	(SEE OBG LAB REPORT)	4	SOIL	DISCRETE-GRAB	0-3"
68-1-SE-C12	(SEE OBG LAB REPORT)	5	SOIL	DISCRETE-GRAB	0-15"
68-1-SE-C13	(SEE OBG LAB REPORT)	6	SOIL	DISCRETE-GRAB	0-2'

SEMI-VOLATILES METHOD 8270

68-1-SE-C3	(SEE OBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-1'
68-1-SE-C14	(SEE OBG LAB REPORT)	4	SOIL	DISCRETE-GRAB	0-2'
68-1-SE-C15	(SEE OBG LAB REPORT)	5	SOIL	DISCRETE-GRAB	0-15'
68-1-SE-C16	(SEE OBG LETTER DATED 3-27-91)	5	SOIL	DISCRETE-GRAB	0-2'

TOTAL CYANIDES METHOD 8270

68-1-SE-C4	(SEE OBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-1'
68-1-SE-C17	(SEE OBG LAB REPORT)	4-5	SOIL	DISCRETE-GRAB	0-2'

SCRA METALS METHOD 6010 / 7000'S

68-1-SE-C5	(SEE OBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-1'
68-1-SE-C18	(SEE OBG LAB REPORT)	4-5	SOIL	DISCRETE-GRAB	0-2'

see



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA B & B # 101.75.17
Bldg 68-1 Steamline Excavation MATRIX: Soils
 Date Analyzed 8-1-91 DATE COLLECTED 7-31-91 DATE RECEIVED 8-1-91

	Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS
68-1-S-E-C1	M9184	8500.	1260	91.
68-1-S-E-C6	M9189	5800.	1260	98.
68-1-S-E-C7	M9190	380.	1260	97.
68-1-S-E-C8	M9191	730.	1260	89.
68-1-S-E-C9	M9192	880.	1260	90.
68-1-S-E-C10	M9193	270.	1260	90.

Comments:

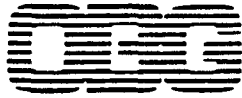
Certification No.: NY034

Units: mg/kg dry weight

Authorized: 

Date: August 21, 1991

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

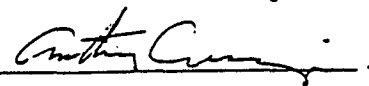


LABORATORIES, INC.

Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA B & B # 101.75.17
Bldg 68-1 Steamline Excavation MATRIX: Soils
 DATE COLLECTED 7-31-91 DATE RECEIVED 8-1-91 DATE ANALYZED 8-13-91

DESCRIPTION:	68-1-S-E C2	68-1-S-E C11	68-1-S-E C12	68-1-S-E C13
SAMPLE NO.:	M9185	M9194	M9195	M9196
Chloromethane	<11.	<11.	<11.	<11.
Bromomethane	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓
Methylene chloride	<5.	<6.	<6.	<6.
Acetone	36.	19.	21.	19.
Carbon disulfide	<5.	<6.	<6.	<6.
1,1-Dichloroethene	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓
1,2-Dichloroethene (total)	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓
2-Butanone	<11.	<11.	<11.	<11.
1,1,1-Trichloroethane	<5.	<6.	<6.	<6.
Carbon tetrachloride	<5.	<6.	<6.	<6.
Vinyl acetate	<11.	<11.	<11.	<11.
Bromodichloromethane	<5.	<6.	<6.	<6.
1,2-Dichloropropane				
cis-1,3-Dichloropropene				
Trichloroethene				
Dibromochloromethane				
1,1,2-Trichloroethane				
Benzene				

Authorized: 

Date: August 21, 1991



LABORATORIES, INC.

Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA B & B # 101.75.17
Bldg 68-1 Steamline Excavation MATRIX: Soils
 DATE COLLECTED 7-31-91 DATE RECEIVED 8-1-91 DATE ANALYZED 8-13-91

DESCRIPTION:	68-1-S-E C2	68-1-S-E C11	68-1-S-E C12	68-1-S-E C13
SAMPLE NO.:	M9185	M9194	M9195	M9196
trans-1,3-Dichloropropene	<5.	<6.	<6.	<6.
Bromoform	<5.	<6.	<6.	<6.
4-Methyl-2-pentanone	<11.	<11.	<11.	<11.
2-Hexanone	<11.	<11.	<11.	<11.
Tetrachloroethene	<5.	<6.	<6.	<6.
1,1,2,2-Tetrachloroethane	<5.	<6.	<6.	<6.
Toluene	29.	7.	8.	<6.
Chlorobenzene	<5.	<6.	<6.	<6.
Ethylbenzene	↓	↓	↓	↓
Styrene	↓	↓	↓	↓
Xylene (total)	↓	↓	↓	↓

Comments:

Methodology: EPA Target Compound List By 8240, SW-846
November 1988, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

Page 2 of 2

Authorized:

Date: August 21, 1991

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - Bldg 68-1 Steamline Excavation B & B # 101.75.17
68-1-SE C3 MATRIX: Soil
 SAMPLE NO. M9186 DATE COLLECTED 7-31-91 DATE RECEIVED 8-01-91
 DATE EXTRACTED 8-03-91 DATE ANALYZED 8-15-91

Phenol	<3600.	4-Chloro-3-methylphenol	<3600.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<17,000.
Benzyl alcohol		2-Chloronaphthalene	<3600.
1,2-Dichlorobenzene		2-Nitroaniline	<17,000.
2-Methylphenol		Dimethylphthalate	<3600.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<17,000.
Hexachloroethane		Acenaphthene	<3600.
Nitrobenzene		2,4-Dinitrophenol	<17,000.
Isophorone		4-Nitrophenol	<17,000.
2-Nitrophenol		Dibenzofuran	<3600.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<17,000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<3600.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol	<3600.	Fluorene	
1,2,4-Trichlorobenzene	36,000.	4-Nitroaniline	<17,000.
Naphthalene	<3600.	4,6-Dinitro-2-methylphenol	<17,000.
4-Chloroaniline		N-Nitrosodiphenylamine	<3600.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<3600.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - Bldg 68-1 Steamline Excavation B & B # 101.75.17
68-1-SE C3 MATRIX: Soil
 SAMPLE NO. M9186 DATE COLLECTED 7-31-91 DATE RECEIVED 8-01-91
 DATE EXTRACTED 8-03-91 DATE ANALYZED 8-13-91

Hexachlorobenzene	16,000.	Benzo (a) anthracene	<3600.
Pentachlorophenol	<17,000.	Chrysene	
Phenanthrene	<3600.	Bis (2-ethylhexyl) phthalate	
Anthracene		DI-n-octylphthalate	
DI-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<7100.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments: Elevated detection limits due to matrix interferences.

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

Page 2 of 2

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
5000 Brnttonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Authorized: *Anthony Curran*

Date: August 21, 1991



Semivolatle Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - Bldg 68-1 Steamline Excavation B & B # 101.75.17
68-1-S-E C14 MATRIX: Soil
 SAMPLE NO. M9197 DATE COLLECTED 7-31-91 DATE RECEIVED 8-01-91
 DATE EXTRACTED 8-03-91 DATE ANALYZED 8-13-91

Phenol	<380.	4-Chloro-3-methylphenol	<380.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<380.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<380.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<380.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<380.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<380.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<380.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<380.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - Bldg 68-1 Steamline Excavation B & B # 101.75.17
68-1-S-E C14 MATRIX: Soil
 SAMPLE NO. M9197 DATE COLLECTED 7-31-91 DATE RECEIVED 8-01-91
 DATE EXTRACTED 8-03-91 DATE ANALYZED 8-13-91

Hexachlorobenzene	<380.	Benzo (a) anthracene	<380.
Pentachlorophenol	<1800.	Chrysene	
Phenanthrene	<380.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<750.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1988, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - Bldg 68-1 Steamline Excavation B & B # 101.75.17
68-1-S-E C16 MATRIX: Soil
 SAMPLE NO. M9199 DATE COLLECTED 7-31-91 DATE RECEIVED 8-01-91
 DATE EXTRACTED 8-03-91 DATE ANALYZED 8-13-91

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - Bldg 68-1 Steamline Excavation B & B # 101.75.17

68-1-S-E C16 MATRIX: Soil

SAMPLE NO. M9199 DATE COLLECTED 7-31-91 DATE RECEIVED 8-01-91

DATE EXTRACTED 8-03-91 DATE ANALYZED 8-13-91

Hexachlorobenzene	<370.	Benzo (a) anthracene	<370.
Pentachlorophenol	<1800.	Chrysene	
Phenanthrene	<370.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

Page 2 of 2

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Authorized: 

Date: August 21, 1991



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA B & B # 101.75.17
Bldg 68-1 Steamline Excavation MATRIX: Soils
 DATE COLLECTED 7-31-91 DATE RECEIVED 8-1-91

Description:	68-1-S-E C1	68-1-S-E C2	68-1-S-E C3	68-1-S-E C4	68-1-S-E C5
Sample #	M9184	M9185	M9186	M9187	M9188
Total Metals:					
ARSENIC	-	-	-	-	11.
BARIUM	-	-	-	-	120.
CADMIUM	-	-	-	-	1.
CHROMIUM	-	-	-	-	39.
LEAD	-	-	-	-	700.
MERCURY	-	-	-	-	<0.5
SELENIUM	-	-	-	-	<0.5
SILVER	-	-	-	-	2.
Other Analyses:					
PERCENT TOTAL SOLIDS	91.	91.	92.	91.	91.
CYANIDE	-	-	-	<0.5	-

Comments:

Certification No.: NY034

Units: mg/kg dry weight

Authorized: 

Date: August 21, 1991

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA B & B # 101.75.17
Bldg 68-1 Steamline Excavation MATRIX: Soils
 DATE COLLECTED 7-31-91 DATE RECEIVED 8-1-91

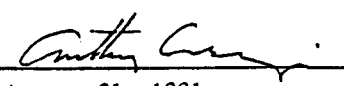
Description:	68-1-S-E C16	68-1-S-E C17	68-1-S-E C18
Sample #	M9199	M9200	M9201
Total Metals:			
ARSENIC	-	-	3.9
BARIUM	-	-	64.
CADMIUM	-	-	<1.
CHROMIUM	-	-	22.
LEAD	-	-	420.
MERCURY	-	-	<0.6
SELENIUM	-	-	<0.6
SILVER	-	-	26.
Other Analyses:			
PERCENT TOTAL SOLIDS	90.	88.	90.
CYANIDE	-	<0.5	-

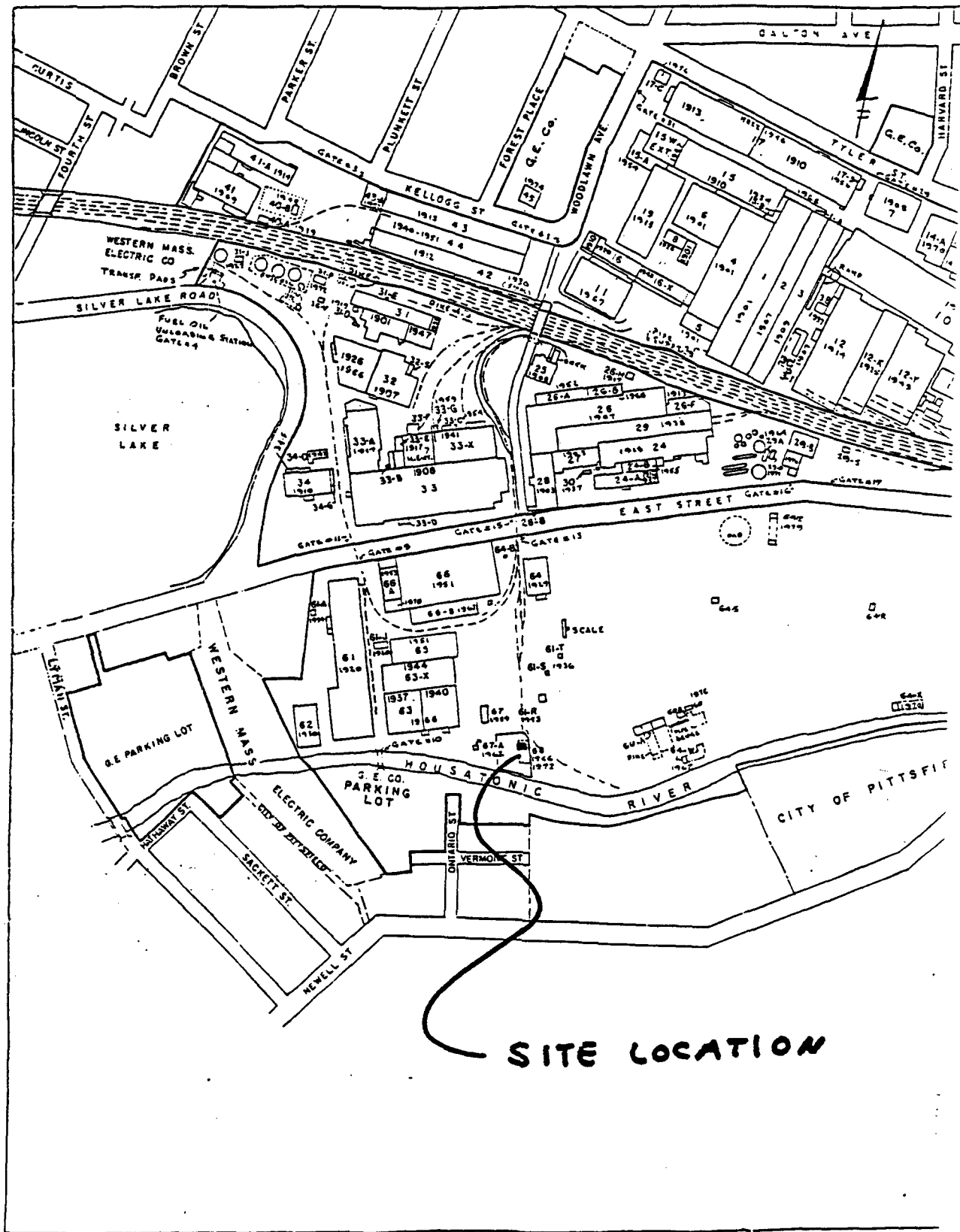
Comments:

Certification No.: NY034

Units: mg/kg dry weight

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Authorized: 
 Date: August 21, 1991



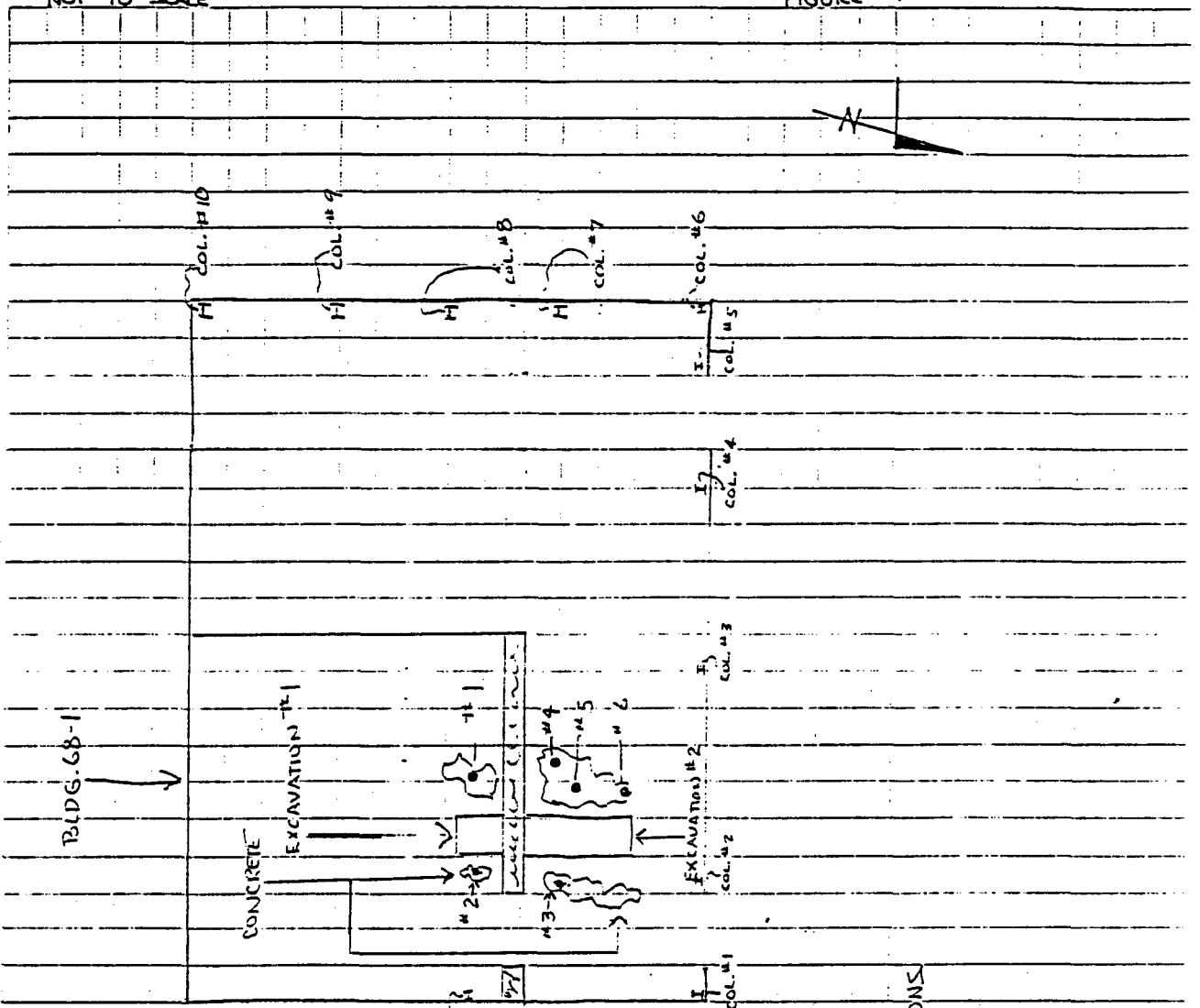
SITE LOCATION



SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 68-1 STEAMLINE EXCAVATION SAMPLING	101.75.17	A.G.P.	7-31-91	1 of 1

NOT TO SCALE

FIGURE #1



BLDG. 68-1 STEAMLINE
 EXCAVATION SAMPLING
 101.75.17
 (Circled #) -- SAMPLE LOCATIONS

PRELIMINARY

MAR 9 1992

BLASLAND & BOUCK ENGINEERS P.C.
(REQUEST FOR SAMPLING)

To: Files

Date: 3-5-92

From: Bruce Eulian

File No: 101-75-23

Re: Misc Drum Sampling (Bldg 78-1)

INITIATOR: Aimee Cole (GE)

DATE: 2-25-92

BLDG. LOCATION: Bldg 78-1

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil (discrete-grab)

PURPOSE: To determine proper disposal method for the soil that was excavated at Bldg 68-1.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE).

1.) Excavated soil from the steamline repair excavation to be sampled for Total Lead Method 6010.

Passed TELP
sem

PRELIMINARY

MAR 9 1992

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Misc Drum Sampling (Bldg 78-1)

Date: 3-5-92
File No: 101-75-23
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on 2-25-92 from soil generated during repair on a steamline inside Bldg 68-1. This soil was put into fourteen 55-gallon drums and transported to Bldg 78-1 for storage, where it was sampled.

At the request of Aimee Cole (GE), the following sampling was performed.

* 14 discrete grab samples of soil

A summary table of the sampling program results has been provided (Table 1), as well as drawings showing the site locations (Figure 1) and sample locations (Figure 2). A preliminary analytical report provided by OSG Laboratories has also been included (Attachment 1).

see

PRELIMINARY

MAR 9 1992

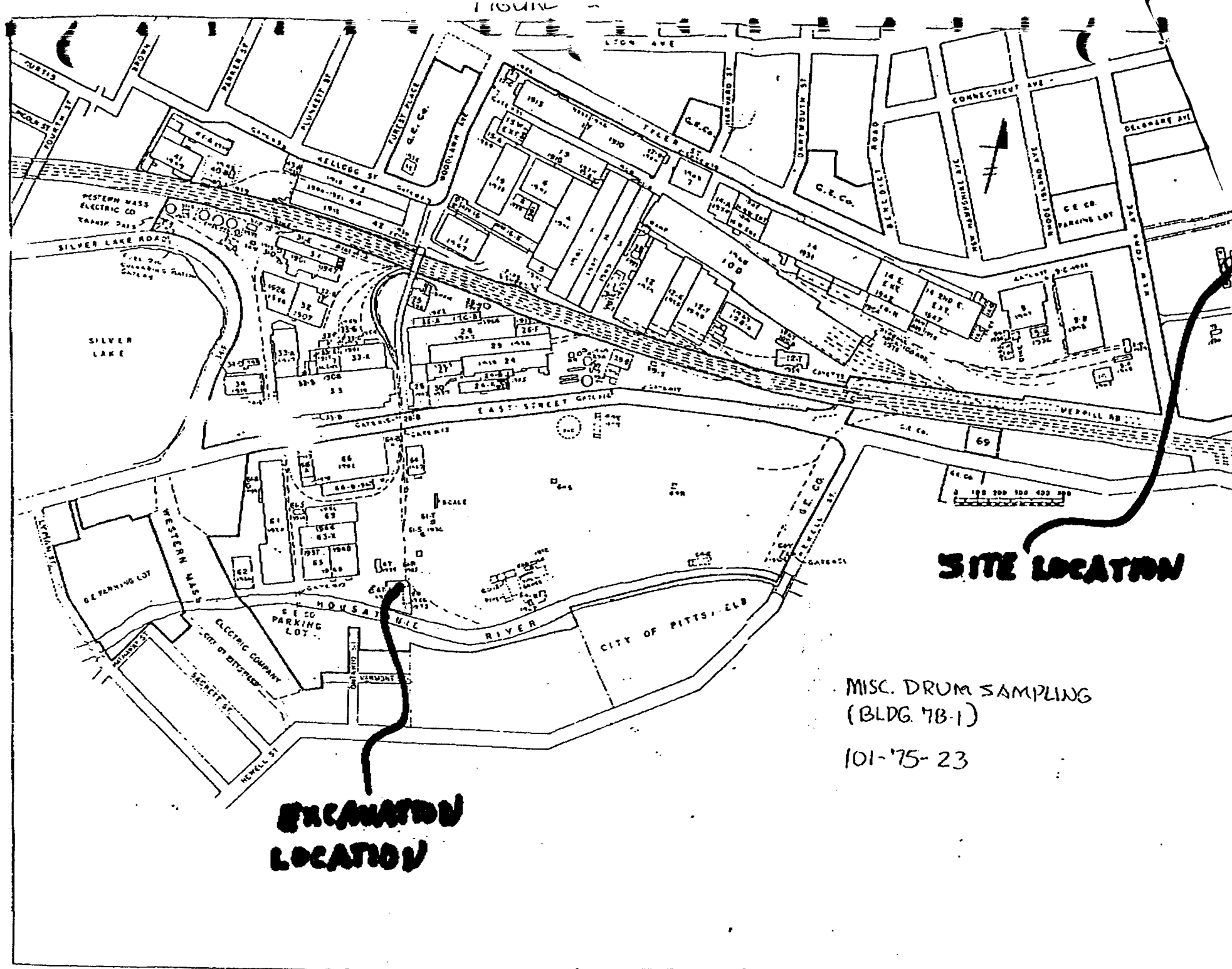
Misc Drum Sampling (Bldg 78-1)
101-75-23

Table 1

TOTAL LEAD SAMPLING RESULTS METHOD 6010

LAB ID	SAMPLE DATE	TOTAL LEAD PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
68-1-1043-C1	02-25-92	2900.	1	SOIL	DISCRETE-BRAB	0-31"	2
68-1-1051-C1	02-25-92	100.	2	SOIL	DISCRETE-CORE	0-30"	2
68-1-1052-C1	02-25-92	250.	3	SOIL	DISCRETE-BRAB	0-31"	2
68-1-1110-C1	02-25-92	940.	4	SOIL	DISCRETE-BRAB	0-18"	2
68-1-1066-C1	02-25-92	2500.	5	SOIL	DISCRETE-BRAB	0-30"	2
68-1-1053-C1	02-25-92	960.	6	SOIL	DISCRETE-CORE	0-30"	2
68-1-1045-C1	02-25-92	330	7	SOIL	DISCRETE-BRAB	0-30"	2
68-1-1044-C1	02-25-92	1100.	8	SOIL	DISCRETE-CORE	0-30"	2
68-1-1054-C1	02-25-92	940.	9	SOIL	DISCRETE-BRAB	0-29"	2
68-1-1065-C1	02-25-92	530.	10	SOIL	DISCRETE-BRAB	0-30"	2
68-1-1067-C1	02-25-92	600.	11	SOIL	DISCRETE-BRAB	0-29"	2
68-1-1080-C1	02-25-92	370.	12	SOIL	DISCRETE-CORE	0-30"	2
68-1-1079-C1	02-25-92	290.	13	SOIL	DISCRETE-CORE	0-23"	2
68-1-1055-C1	02-25-92	450.	14	SOIL	DISCRETE-CORE	0-30"	2

588



**EXCAVATION
LOCATION**

SITE LOCATION

MISC. DRUM SAMPLING
(BLDG. 7B-1)
101-75-23

APPENDIX J, SECTION A-4

DELIVERED TO
GRANT BOWMAN (GE)
7-9-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Sweeper Soil Sampling (MRC Yard)

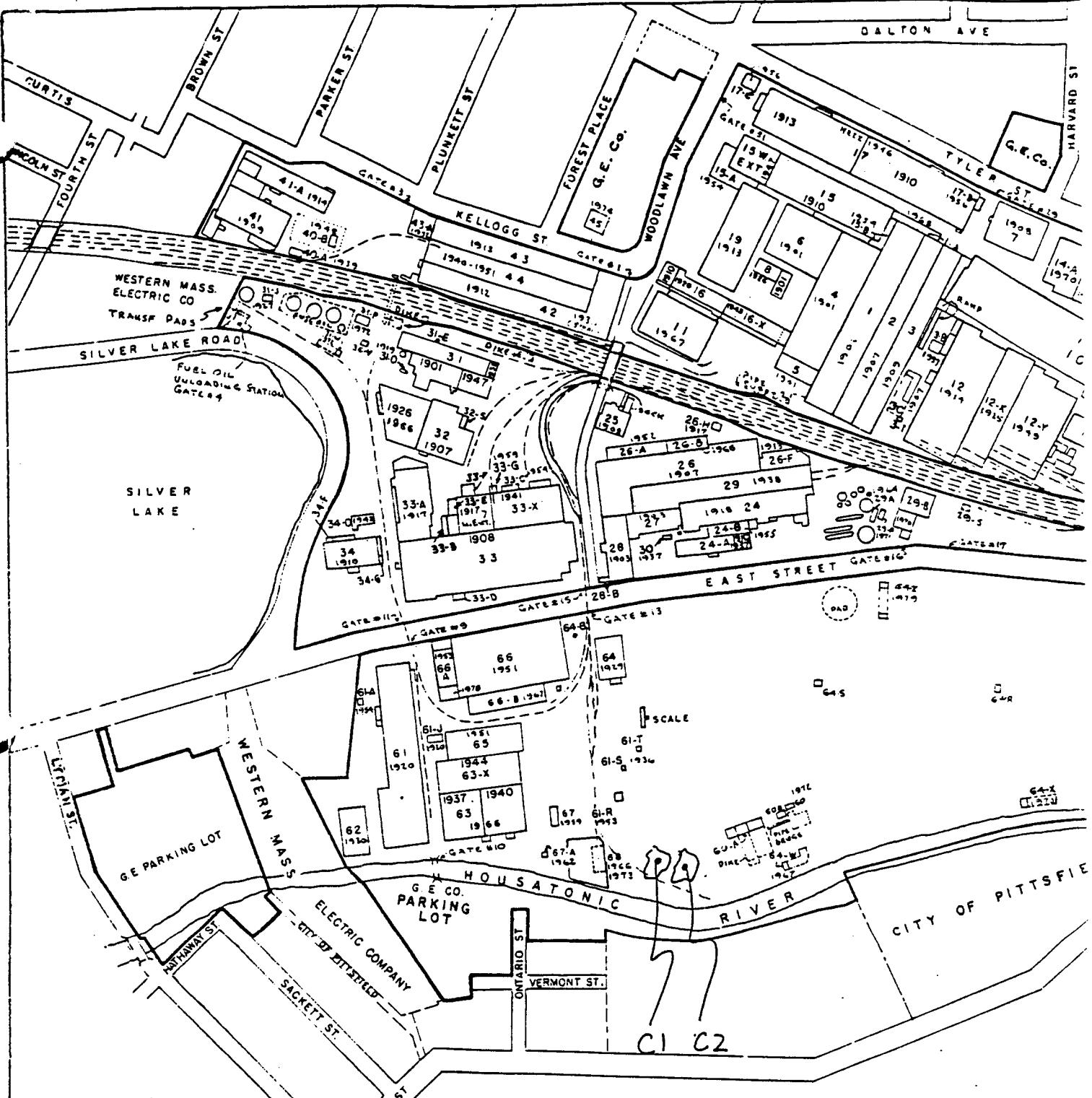
Date: 06/25/90
File No: 101-51-05
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling conducted at the MRC Yard on 06/20/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBE Laboratories has also been included.

PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
MRC-SOIL-C1	<2.	C1	SOIL	DISCRETE-GRAB	0'-2'
MRC-SOIL-C2	6.2	C2	SOIL	DISCRETE-GRAB	0'-2'

bee



MRC
 SWEEPER SOIL SAMPLES
 101-51-05

- - SAMPLE LOCATION
- ☞ - SOIL PILE



BLASLAND & BOUCK ENGINEERS P.C.

SUBJECT: Bldg 64 Yard (South Side) Sweeping
Pile Sampling

PROJECT NO: 101-75-22

BY: S E Melbourne

DATE: 10-21-91

REQUEST FOR SAMPLING

DATE: 10-16-91

INITIATOR: Aimee Cole (GS)

BLDG. LOCATION: Bldg 64 (outside) South side

CONTACT PERSON: Aimee Cole (GS)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

NOTES:

The following sampling criteria was implemented at the request of Aimee Cole (GS):

1.) Soil from the sweepings throughout the plant to be sampled for PCB's (Method 8080) and TCLP's.

2.) TCLP samples to be sent to Alpha Analytical via (Jeff Nicholson) GE Lab, Pittsfield MA., for courier pickup.

The sampling program was conducted on a discrete-grab sample basis.

GLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 64 Yard (South Side) Sweeping Pile Sampling

Date: 10-21-91
File No: 101-75-22
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB and TCLP sampling program conducted at Bldg 64 Yard on 10-16-91. A drawing showing the sample location is attached (see figure 1). A preliminary analytical report provided by OEG Laboratories and a final analytical report provided by Alpha Analytical have also been included.

PCB SAMPLING RESULTS METHOD 8090

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
64-YD-SP-C1	42.0	1	SOIL	DISCRETE-GRAB	0' - 1'
64-YD-SP-C2	9.9	2	SOIL	DISCRETE-GRAB	0' - 2'
64-YD-SP-C3	31.0	3	SOIL	DISCRETE-GRAB	0' - 3'
64-YD-SP-C4	4.6	4	SOIL	DISCRETE-GRAB	0' - 1'
64-YD-SP-C5	2.9	5	SOIL	DISCRETE-GRAB	0' - 2'

TCLP SAMPLING RESULTS

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
64-YD-SP-C6	SEE ALPHA LAB REPORT	1 - 5	SOIL	DISCRETE-GRAB (FIELD COMPOSITE)	0' - 3'

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analyses of Building 64 Yard Sweeping Number: EL-91-055
File Date: November 5, 1991
Test by: Alpha Analytical Requested by: A. Cole
Report by: WA Fessler Approved: *WA Fessler*
115191

A sample from the Building 64 yard sweeping pile was sent to Alpha Analytical Laboratories for determination of toxicity characteristics listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

The sample did not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
A Cole 11-250

Sample ID		Result	Regulatory Lim	
	64-YD-SP-C6	mg/L	mg/L	
Arsenic	<	.005	5.000	OK
Barium		.27	100.000	OK
Cadmium	<	.01	1.000	OK
Chromium	<	.02	5.000	OK
Lead		.07	5.000	OK
Mercury	<	.005	.200	OK
Selenium	<	.005	1.000	OK
Silver		.03	5.000	OK
<hr/>				
o-Cresol	<		200.000	OK
m-Cresol	<		200.000	OK
p-Cresol	<		200.000	OK
Cresols	<	.029	200.000	OK
2,4-Dinitrotoluene	<	.015	.130	OK
Hexachlorobenzene	<	.011	.130	OK
Hexachlorobutadiene	<	.032	.500	OK
Hexachloroethane	<	.02	3.000	OK
Nitrobenzene	<	.0076	2.000	OK
Pentachlorophenol	<	.0368	100.000	OK
2,4,5-Trichlorophenol	<	.019	400.000	OK
2,4,6-Trichlorophenol	<	.011	2.000	OK
Pyridine	<	.1	5.000	OK
<hr/>				
Benzene	<	.005	.500	OK
Carbon Tetrachloride	<	.005	.500	OK
Chlorobenzene	<	.018	100.000	OK
Chloroform	<	.0075	6.000	OK
1,4-Dichlorobenzene	<	.05	7.500	OK
1,2-Dichloroethane	<	.0075	.500	OK
1,1-Dichloroethylene	<	.0075	.700	OK
Tetrachloroethylene	<	.0075	.700	OK
Trichloroethylene	<	.005	.500	OK
Vinyl Chloride	<	.018	.200	OK
Methyl Ethyl Ketone	<	.05	200.000	OK

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

CERTIFICATE OF ANALYSIS

Client: General Electric Laboratory Job Number: 916774
Address: 100 Woodlawn Avenue Invoice Number: 25381
Pittsfield, MA 01201 Date Received: 10/18/91
Attn: William Fessler Date Reported: 11/01/91
Client Designation: Project# 101.75.22 Delivery Method: Alpha Courier

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
916774.1	64-YD-SP-C6	N/A
916774.1S	64-YD-SP-C6	N/A
916774.Spike	N/A	N/A

Authorized by: 
Scott McLean - Laboratory Director

cp

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 916774.1 Date Received: 10/18/91

Sample Matrix: Solid Date Reported: 11/01/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass bottle & four VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	----	-----	---	13	1311	10/24/91	-----
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	10/28/91
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	10/28/91
Chlorobenzene	ND	mg/L	0.018	1	8240	----	10/28/91
Chloroform	ND	mg/L	0.0075	1	8240	----	10/28/91
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	10/28/91
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	10/28/91
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	10/28/91
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	10/28/91
Trichloroethene	ND	mg/L	0.005	1	8240	----	10/28/91
Vinyl chloride	ND	mg/L	0.018	1	8240	----	10/28/91
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	10/28/91

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	91%
Toluene-d8	99%
4-Bromofluorobenzene	88%

NOTE: TCLP results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 916774.Spike Date Received: 10/18/91

Sample Matrix: Solid Date Reported: 11/01/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass bottle & four VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	%RECOVERY
Acid/Base/Neutral Extractables	
Total Cresol	45%
2,4-Dinitrotoluene	99%
Hexachlorobenzene	105%
Hexachloro-1,3-butadiene	74%
Hexachloroethane	90%
Nitrobenzene	123%
Pentachlorophenol	94%
2,4,5-Trichlorophenol	89%
2,4,6-Trichlorophenol	86%
Pyridine	5%

Acid/Base/Neutral Extractables	%Surrogate Recovery
2-Fluorophenol	53%
Phenol-d6	46%
Nitrobenzene-d5	98%
2-Fluorobiphenyl	94%
2,4,6-Tribromophenol	67%
4-Terphenyl-d14	118%

Spike recovery was originally reported on Alpha sample number 916775.1

NOTE: TCLP results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 916774.1S Date Received: 10/18/91
Sample Matrix: Solid Date Reported: 11/01/91
Condition of Samples: Satisfactory Field Prep: None
Number & Type of Containers: One glass bottle & four VOA vials
Analysis Requested: Analysis as listed below

PARAMETER	ZRECOVERY
TCLP RCRA 8 Metals	
Arsenic	100%
Barium	102%
Cadmium	102%
Chromium	99%
Lead	96%
Mercury	105%
Selenium	95%
Silver	96%
TCLP Volatile Organics	
Benzene	113%
Carbon tetrachloride	111%
Chlorobenzene	112%
Chloroform	106%
1,4-Dichlorobenzene	87%
1,2-Dichloroethane	111%
1,1-Dichloroethene	121%
Tetrachloroethene	111%
Trichloroethene	112%
Vinyl chloride	94%
Methyl ethyl ketone	103%

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	87%
Toluene-d8	101%
4-Bromofluorobenzene	96%

NOTE: TCLP results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABS
ADDENDUM I
REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
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11. Manual of Analytical Quality Control for Pesticides in Human and Environmental Media. PB 261 019. EPA 600/1-76-017. February 1975.
12. Annual Book of ASTM Standards. Sections 0, 3, 4, 5, 6, 8, 9, 11, and 14. American Society for Testing and Materials 1986.
13. 40 CFR Part 261, App. II. Method 1311 Toxicity Characteristic Leaching Procedure (TCLP). July 1, 1990 Edition.
14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. Available from USEPA, Cincinnati, 26 West Martin Luther King Drive, Cincinnati, Ohio, 45268.

ALPHA ANALYTICAL LABS
ADDENDUM I
REFERENCES

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17. "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," Publication EPA-600/4-80-032, U. S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, August 1980.
18. "Clean Harbors Radiological Environmental Analytical Procedures," Clean Harbors Analytical Services, Braintree, MA, October 1985.
19. H. M. Prichard and T. F. Gesell, "Rapid Measurement of RN-222 Concentrations in Water with a Commercial Liquid Scintillation Counter", Health Physics, Volume 33, 1977, pp. 577-581.
20. "Handbook for Analytical Quality Control in Water and Wastewater Laboratories", March 1979, EPA 600/4-79-019.
21. Analysis of PCB's in Transformer Fluid and Waste Oil. EPA 600/4-81-045. 1981.
22. Klute, A. 1986, "Methods of Soil Analysis, Part 1", Methods 15-2.2 and 15-5.1. American Society of Agronomy, Madison, WI.
23. Exhibit No. 1. Petroleum Oils by Gas Chromatography. Alley, Young & Baumartner, Inc., Consulting Engineers, P.O. Box 2036, Brentwood, TN 37024.
24. Principal Organic Hazardous Constituents and Products of Incomplete Combustion Screening Protocol. Southern Research Institute, October 1989.
25. Official Methods of Analysis, AOAC, 14th Edition, 1984.



BLASLAND & BOUCK ENGINEERS, P.C.
 6723 Tow Path Road, Box 66, Syracuse, New York 13214
 (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	TCLP NO HERBICIDES OR PESTICIDES					REMARKS
101.75.22		BLDG. 64 YARD (SOUTH-SIDE) SWEEPING PILE SAMPLING													
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE									
						SOLID	WIPE	WATER							
64-YD-SP-C6		10-16	13:25		X	X				5	X				SAMPLED FOR: AMIEE COLE BRING TO G.E. LAB PITTSFIELD, MA. (JEFF NICHOLSON) FOR SHIPMENT TO ALPHA ANALYTICAL
										<i>Note: Send all reports & invoices to: W. A. Fessler, Mail Drop C23 GEC, 100 Woodlawn, Cinc. Pittsfield, Ma 01201</i>					
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)			
A.A. Peart Jr.		10-16-91 13:25					A.A. Peart Jr.			10-17-91 10:40		J. Nicholson			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)			
										10/18/91 21:20		B. Marshall			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS						
J. Nicholson		10/18/91 11:55AM		Patricia Lellan			10-18 11:55		P.O. # PX 3021700						

3327



PRELIMINARY
OCT 21 1991

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-22

Date Analyzed 10-19-91 DATE COLLECTED See Below DATE RECEIVED 10/17/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
64-YD-SP-C1	10/19/91	10/16/91	39	92	42	soil	A
-C2			9.2	93	9.9		
-C3			28	89	31		
-C4			4.3	94	4.6		
-C5			2.7	93	2.9		
A) Reagent Blank 1:					<1		
Reference Sample 1:						3.16/3.34 = 95%	
Matrix Spike 119-FI-C2:						3.03/3.34 = 91%	
Matrix Spike Duplicate:						3.01/3.34 = 90%	
Precision:						3.03 vs 3.01 = 0.7% RPD	

Comments:

Certification No.:

Units: ug/g = ppm

Authorized: _____

Date: _____



SUBJECT BLDG. 64 YARD

PROJ. NO.

BY

DATE

SHEET

(SOUTH SIDE) SWEEPING PILE SAMPLING

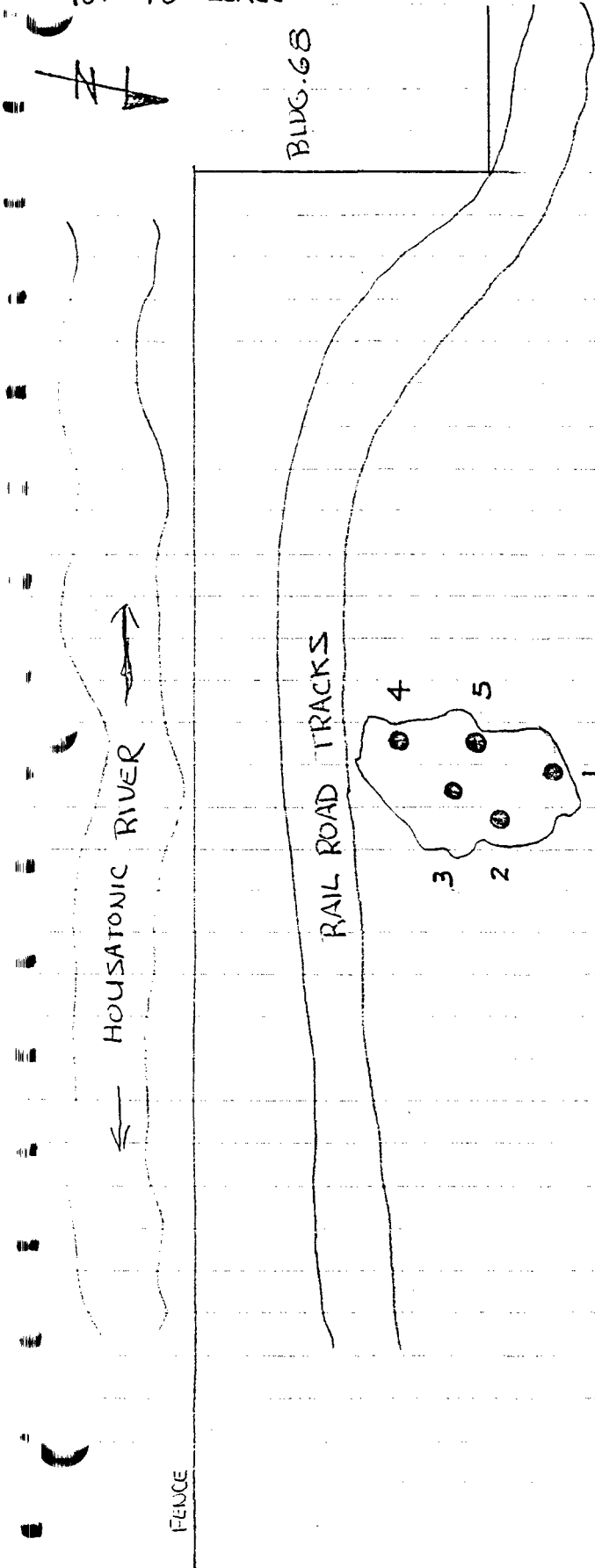
101.75.22

AGP

10-17-91

NOT TO SCALE

FIGURE #1



BLDG. 64 YARD (SOUTH-SIDE)
SWEEPING PILE SAMPLING

101.75.22

● - SAMPLE LOCATION

APPENDIX J, SECTION A-5

DELIVERED TO
GRANT BOWMAN (GB)
9-22-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: OP-63 Foundation Sampling (soil)

Date: 08/06/90
File No: 101-88-10
cc: Grant Bowman (GB)

The following is a summary of the sample results for the PCB sampling program conducted at Bldg. OP-63 on 08/02/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
OP-63-C4	<2.0	SOIL	4	DISCRETE-BRAB	0'-2'
OP-63-C5	<2.0	SOIL	5	DISCRETE-BRAB	0'-2'

bee



1809

Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-88-10

Date Analyzed 8/2/90 DATE COLLECTED See Below DATE RECEIVED 8/2/90

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS (%)	PCB	COMMENTS	QC RESULTS
OP-63-C4	8/2/90	8/2/90	<.6	89.8	<2.	Soil	A)
OP-63-C5	↓	↓	<.6	89.9	<2.	↓	↓
Matrix Spike	of OP-63-C4		—	—	$\frac{4.32}{3.95} =$	109%	Recovery

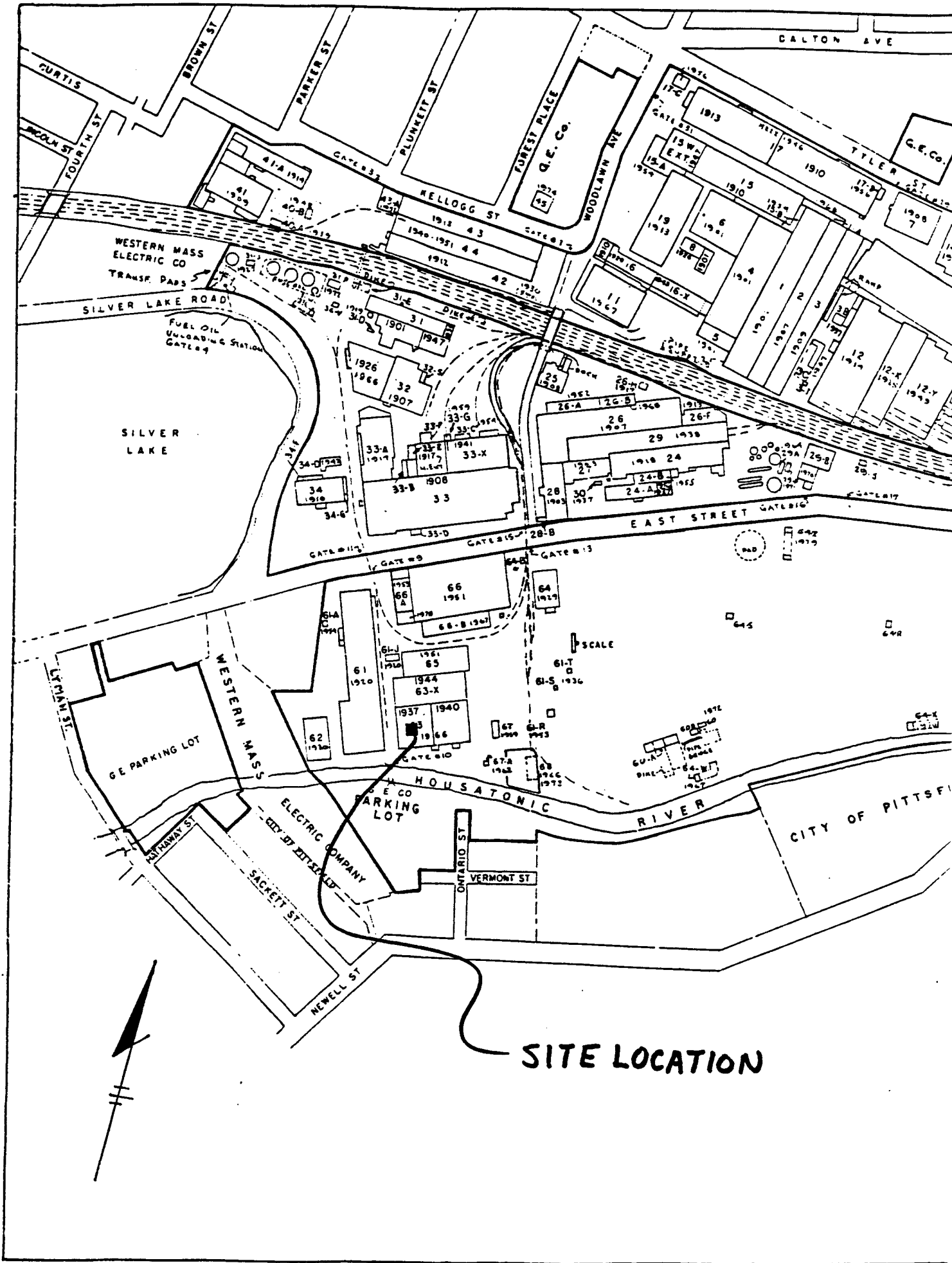
Comments:

Certification No.:

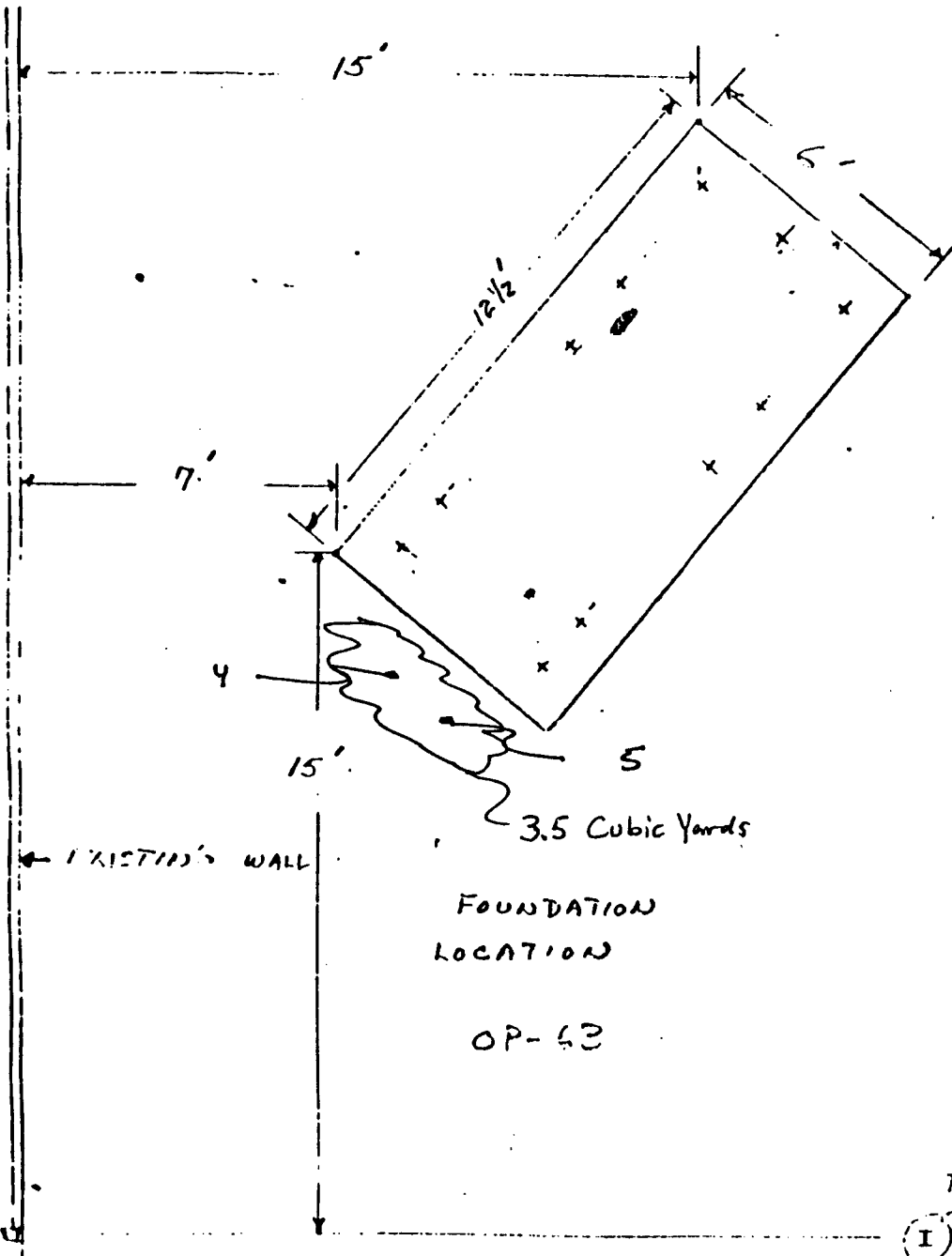
Units: mg/Kg dry wt.

Authorized: _____

Date: _____



SITE LOCATION



NOTES


1. CONCRETE TO TEST 3000 PSI @ 28 DAYS
STANDARD G.F. MIX #4, 3/4 IN. AGGREGATE MAX.
2. CONCRETE CONSTRUCTION + DETAILS TO
CONFORM TO ACI 318 SPECS. (LATEST)
3. REINFORCING STEEL TO BE NEW BILLET
STEEL GRADE 40, CONFORMING TO ASTM
A65 SPECS.
4. GRAVEL TO BE COMPACTED. IF FILL
IS ADDED, COMPACT IN 6" LAYERS.

OP-63 FOUNDATION SAMPLING

101-88-10

$\frac{1}{4}" = 1'$

 - SAMPLE LOCATION
SOIL PILE

BUILDING
SUPPORT


SK-KLT6590

SH 1 OF 2

APPENDIX J, SECTION A-6

BLASLAND & BOUCK ENGINEERS P.C.
(REQUEST FOR SAMPLING)

ELIMINAR
APR 3 1992

To: Files

Date: 3-27-92

From: Bruce Eulian

File No: 101-75-23

Re: Misc. Drum Sampling (Bldg.12-1)

INITIATOR: Aimee Cole (GE)

DATE: 3-4-92

BLDG. LOCATION: Bldg.12Y-1

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil (discrete-grab)

PURPOSE:

To determine proper disposal method for soil generated from various drilling locations around the plant.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE).

1.) Soil generated from various drilling locations around the plant is to be sampled for;
drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 5976: TCLP-Metals (no herbicides or pesticides)
drum # 5997: TCLP-Metals (no herbicides or pesticides)
drum # 9008: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010
drum # 9009: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010.

PRELIMINARY

4-8-92

APR 3 1992

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Misc. Drum Sampling (Bldg.12-1)

Date: 3-4-92
File No: 101-75-23
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on the soil generated from various drilling locations around the plant. The soil was put into 55 gal. drums and transported to bldg.12-1 for sampling and storage.

At the request of Aimee Dale (GE) the following sampling was performed:

drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)

drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)

drum # 5976: TCLP-Metals (no herbicides or pesticides)

drum # 5997: TCLP-Metals (no herbicides or pesticides)

drum # 9008: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010

drum # 9009: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010

A summary table of the sampling program has been provided (TABLE 1), including drawings showing the site location (FIGURE 1) and sample locations (FIGURE 2). Preliminary analytical reports provided by JEG Laboratories and analytical reports provided by Alpha Analytical have also been included.

egg

Misc. Drum Sampling
 (Bldg. 12-1)
 101-75-23

PRELIMINARY
APR 3 1992

TABLE 1

SAMPLE LOCATION	LAB-ID	SAMPLE DATE	TOTAL PCB's METHOD 8080 PPH	TCLP METALS	REACTIVE CYANIDE METHOD 9010 PPH	REACTIVE SULFIDE METHOD 9030 PPH	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
1	12-1-5997- C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 22"	2
2	12-1-9009- C1	3-4-92	-----	-----	<1.0	<10.0	SOIL	DISCRETE- GRAB	0 - 30"	2
3	12-1-9009- C1	3-4-92	-----	-----	<1.0	76.0	SOIL	DISCRETE- GRAB	0 - 23"	2
4	12-1-5976- C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 26"	2
5	12-1-9019- C1	3-4-92	9.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 32"	2
6	12-1-9016- C1	3-4-92	1.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 24"	2

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analysis of Drum Samples

Number: EL-92-030

Test by: Alpha Analytical

Date: March 23, 1992

Report by: WA Fessler

Requested by: A Cole

Approved: *WA Fessler*

3-23-92

Four samples from waste drums in Building 12 were sent to Alpha Analytical Laboratories for determination of toxicity characteristics due to metals listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

None of the samples showed the characteristic of toxicity. Note, however, that the value reported for lead (5.0 mg/L) in sample 12-2-5976-C1 corresponds to the limit for lead.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
 A Cole 11-205



SUBJECT	(EAST ST. AREA 2)	PROJ. NO.	BY	DATE	SHEET
SOIL LOCATIONS FOR DRUM SAMP.		10193-11	BEE	6-9-92	1 OF 1

DRUM # LOCATION (SEE ATTACHED B&B MAP)

05555 B4

05596 B5

05549 B1

05599 B5

05997 Y11 TO Y20

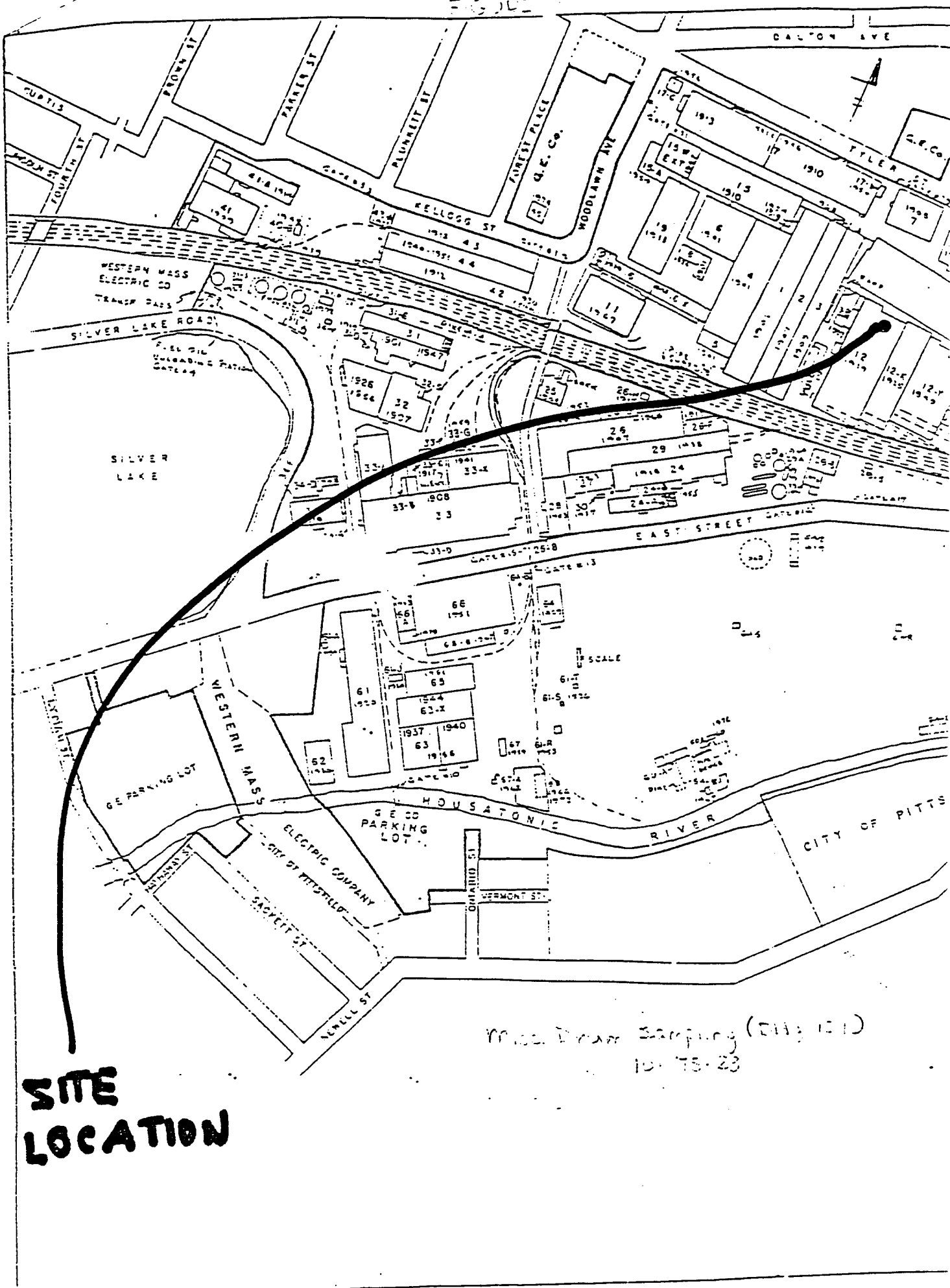
09008 X14

09009 X8

05976 Y1, Y2, Y3, Y5, Y7

09019 X19

09016 X19, X20



**SITE
LOCATION**

Mud Pond Sampling (DMS 101)
10-75-23

APPENDIX J, SECTION B-1

DELIVERED TO
GRANT BOWMAN (GE)
11-6-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Strain Pole Soil Sampling (Excavation for Parking Lot Sampling)

Date: 11/02/90
File No: 101-93-04
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted at the Strain Pole Locations on 10/16/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
STRAIN-PL-C1	see OBG Lab Report	1	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C2	see OBG Lab Report	2	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C3	see OBG Lab Report	3	SOIL	DISCRETE-GRAB	0'-2'

SEMI-VOLATILES SAMPLING RESULTS METHOD 8270

STRAIN-PL-C1	see OBG Lab Report	1	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C2	see OBG Lab Report	2	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C3	see OBG Lab Report	3	SOIL	DISCRETE-GRAB	0'-2'

PHENOL SAMPLING RESULTS METHOD 8040

STRAIN-PL-C1	see OBG Lab Report	1	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C2	see OBG Lab Report	2	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C3	see OBG Lab Report	3	SOIL	DISCRETE-GRAB	0'-2'

TOTAL CYANIDE SAMPLING RESULTS METHOD 9010

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
--------	------------------	-----------------	-----------------	-------------	--------------

cn

STRAIN-PL-C1	see 086 Lab Report	1	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C2	see 086 Lab Report	2	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C3	see 086 Lab Report	3	SOIL	DISCRETE-GRAB	0'-2'

TCLP METALS SAMPLING RESULTS

STRAIN-PL-C1	see 086 Lab Report	1	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C2	see 086 Lab Report	2	SOIL	DISCRETE-GRAB	0'-2'
STRAIN-PL-C3	see 086 Lab Report	3	SOIL	DISCRETE-GRAB	0'-2'

see



Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENG JOB NO. 2887-026-517

DESCRIPTION Strain Pole Excavation for Parking Lot
6E. Pittsfield - Soils

date analyzed 10/18/90 DATE COLLECTED 10-16-90 DATE RECEIVED 10-17-90

DESCRIPTION	SAMPLE #	PCB	HYDRO	PDS
Strain PL-C1	L1734	3B.	1260	86
↓ PL-C2	L1735	1.4	1260	38
↓ PL-C3	L1736	2.3	1260	88

Comments:

Certification No.: NY 034

Units: mg/kg dry wt.

Authorized: _____

Date: _____

SECTION LEADER: HC

Laboratory Report

BIN #: 145386**PRELIMINARY**

CLIENT: Blasland & Buckle Eng JOB NO. 2887-024-517
 DESCRIPTION: Strain Pole Excavation for Parking Lot
GE Pittsfield MATRIX: Soils
 Date Analyzed: 10/18/90 DATE COLLECTED: 10-16-90 DATE RECEIVED: 10-17-90

Description:Sample #:TECP Metals

	STRAIN- PL-C1	STRAIN- PL-C2	STRAIN- PL-C3
	<u>41734</u>	<u>41735</u>	<u>41736</u>
<u>AS</u>	<u>20.5</u>	<u>20.5</u>	<u>20.5</u>
<u>BA</u>	<u>210.</u>	<u>210.</u>	<u>210.</u>
<u>CD</u>	<u>20.1</u>	<u>20.1</u>	<u>20.1</u>
<u>CR</u>	<u>20.5</u>	<u>20.5</u>	<u>20.5</u>
<u>Pb</u>	<u>20.5</u>	<u>20.5</u>	<u>20.5</u>
<u>Hg</u>	<u>20.0005</u>	<u>20.0005</u>	<u>20.0005</u>
<u>SE</u>	<u>20.1</u>	<u>20.5</u>	<u>20.5</u>
<u>AG</u>	<u>20.5</u>	<u>20.5</u>	<u>20.5</u>
<u>Total CN method 9010 *</u>	<u>20.6</u>	<u>20.6</u>	<u>20.6</u>
<u>Phenol method 8040</u>			
<u>BNA method 8270</u>			
<u>PCB method 8080</u>			
<u>PCTS</u>	<u>86</u>	<u>88</u>	<u>88</u>

Comments:

Certification No.: N4034 -Units: mg/l
* mg/kg dry wt

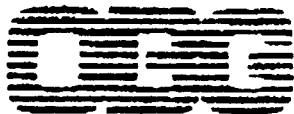
Authorized: _____

Date: _____

PRELIMINARY

CLIENT Blasland & Bouck Engineers P.C. JOB NO. 2887.026.517
 DESCRIPTION Strain Pole Excavation for Parking Lot
GE Pittsfield, MA Soil
 SAMPLE NO. L1734 DATE COLLECTED 10-16-90 DATE RECEIVED 10-17-90
 DATE EXTRACTED 10-22-90 DATE ANALYZED 10-24-90

Phenol	< 380	4-Chloro-3-methylphenol	< 380	
Bis (2-chloroethyl) ether	↓	2-Methylnaphthalene	↓	
2-Chlorophenol		Hexachlorocyclopentadiene		
1,3-Dichlorobenzene		2,4,6-Trichlorophenol		
1,4-Dichlorobenzene		2,4,5-Trichlorophenol		< 1900
Benzyl alcohol		2-Chloronaphthalene		< 380
1,2-Dichlorobenzene		2-Nitroaniline		< 1900
2-Methylphenol		Dimethylphthalate		< 380
Bis (2-chloroisopropyl) ether		Acenaphthylene		↓
4-Methylphenol		2,8-Dinitrotoluene		
N-Nitroso-di-n-propylamine		3-Nitroaniline		
Hexachloroethane		Acenaphthene		< 380
Nitrobenzene		2,4-Dinitrophenol		< 1900
Isophorone		4-Nitrophenol		< 1900
2-Nitrophenol		Dibenzofuran		< 380
2,4-Dimethylphenol		2,4-Dinitrotoluene		↓
Benzoic acid	Diethylphthalate			
Bis (2-chloroethoxy) methane	4-Chlorophenyl-phenylether			
2,4-Dichlorophenol	Fluorene			
1,2,4-Trichlorobenzene	4-Nitroaniline	< 1900		
Naphthalene	4,6-Dinitro-2-methylphenol	< 1900		
4-Chloroaniline	N-Nitrosodiphenylamine	< 380		
Hexachlorobutadiene	4-Bromophenyl-phenylether	< 380		



LABORATORIES, INC.

Semivolatile Organics Method 8270

PRELIMINARY

CLIENT Blasland & Bouck Engineers, P.C JOB NO. 2887.026.517

DESCRIPTION Strain Pole Excavation for Parking Lot
GE Pittsfield, MA Soil

SAMPLE NO. L1734 DATE COLLECTED 10-16-90 DATE RECEIVED 10-17-90
DATE EXTRACTED 10-22-90 DATE ANALYZED 10-24-90

Hexachlorobenzene	< 380
Pentachlorophenol	< 1900
Phenanthrene	< 380
Anthracene	↓
Di-n-butylphthalate	
Fluoranthene	
Pyrene	
Butylbenzylphthalate	
3,3'-Dichlorobenzidine	< 770

Benzo (a) anthracene	< 380
Chrysene	↓
Bis (2-ethylhexyl) phthalate	
Di-n-octylphthalate	
Benzo (b) fluoranthene	
Benzo (k) fluoranthene	
Benzo (a) pyrene	
Indeno (1,2,3-cd) pyrene	
Dibenz (a,h) anthracene	
Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1996, 3rd Edition

Certification No.: NY034

Units: ug/kg dry weight

~~Values reported in parentheses are estimated values, detected, but below the quantitation limit.~~

~~Elevated detection limits due to matrix interferences.~~



Semivolatile Organics Method 8270

PRELIMINARY

CLIENT Blasland & Bouck Engineers, PC JOB NO. 2887.026.517

DESCRIPTION Strain Pole Excavation for Parking Lot
GE Pittsfield, MA Soil

SAMPLE NO. L1735 DATE COLLECTED 10-16-90 DATE RECEIVED 10-17-90

DATE EXTRACTED 10-22-90 DATE ANALYZED 10-22-90

Phenol	<380	4-Chloro-3-methylphenol	<380	
Bis (2-chloroethyl) ether	↓	2-Methylnaphthalene	↓	
2-Chlorophenol		Hexachlorocyclopentadiene		
1,3-Dichlorobenzene		2,4,6-Trichlorophenol		
1,4-Dichlorobenzene		2,4,5-Trichlorophenol		<1800
Benzyl alcohol		2-Chloronaphthalene		<380
1,2-Dichlorobenzene		2-Nitroaniline		<1800
2-Methylphenol		Dimethylphthalate		<380
Bis (2-chloroisopropyl) ether		Acenaphthylene		↓
4-Methylphenol		2,6-Dinitrotoluene		
N-Nitroso-di-n-propylamine		3-Nitroaniline		<1800
Hexachloroethane	Acenaphthene	<380		
Nitrobenzene	2,4-Dinitrophenol	<1800		
Isophorone	4-Nitrophenol	<1800		
2-Nitrophenol	Dibenzofuran	<380		
2,4-Dimethylphenol	2,4-Dinitrotoluene	↓		
Benzoic acid	Diethylphthalate			
Bis (2-chloroethoxy) methane	4-Chlorophenyl-phenylether			
2,4-Dichlorophenol	Fluorene			
1,2,4-Trichlorobenzene	4-Nitroaniline		<1800	
Naphthalene	4,6-Dinitro-2-methylphenol		<1800	
4-Chloroaniline	N-Nitrosodiphenylamine		<380	
Hexachlorobutadiene	4-Bromophenyl-phenylether		<380	

Authorized: _____

Date: _____



Semivolatile Organics Method 8270

PRELIMINARY

CLIENT Blasland & Bouck Engineers P.C. JOB NO. 2887.026.517

DESCRIPTION Strain Pole Excavation for Parking Lot
GE Pittsfield, MA Soil

SAMPLE NO. L1735 DATE COLLECTED 10-16-90 DATE RECEIVED 10-17-90
DATE EXTRACTED 10-22-90 DATE ANALYZED 10-22-90

Hexachlorobenzene	<380	✓ Benzo (a) anthracene	470
Pentachlorophenol	<1800	✓ Chrysene	600
✓ Phenanthrene	460	✓ Bis (2-ethylhexyl) phthalate	470
Anthracene	<380	Di-n-octylphthalate	<380
Di-n-butylphthalate	<380	✓ Benzo (b) fluoranthene	1000
✓ Fluoranthene	600	Benzo (k) fluoranthene	<380
✓ Pyrene	1800	✓ Benzo (a) pyrene	590
Butylbenzylphthalate	<380	✓ Indeno (1,2,3-cd) pyrene	410
3,3'-Dichlorobenzidine	<750	Dibenz (a,h) anthracene	<380
		✓ Benzo (g,h,i) perylene	430

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: ug/kg dry weight

~~Values reported in parentheses are estimated values, detected, but below the quantitation limit.~~

~~Elevated detection limits due to matrix interferences.~~



Semivolatile Organics

Method 8270

PRELIMINARY

CLIENT Blasland & Bouck Engineers P.C. JOB NO. 2887.026.517
 DESCRIPTION Strain Pole Excavation for Parking Lot
GE Pittsfield, MA Soil
 SAMPLE NO. L1736 DATE COLLECTED 10-16-90 DATE RECEIVED 10-17-90
 DATE EXTRACTED 10-22-90 DATE ANALYZED 10-24-90

Hexachlorobenzene	< 380	Benzo (a) anthracene	590
Pentachlorophenol	< 1800	Chrysene	740
Phenanthrene	550	Bis (2-ethylhexyl) phthalate	570
Anthracene	< 380	Di-n-octylphthalate	< 380
Di-n-butylphthalate	< 380	Benzo (b) fluoranthene	840
Fluoranthene	900	Benzo (k) fluoranthene	420
Pyrene	1800	Benzo (a) pyrene	720
Butylbenzylphthalate	< 380	Indeno (1,2,3-cd) pyrene	450
3,3'-Dichlorobenzidine	< 750	Dibenz (a,h) anthracene	< 380
		Benzo (g,h,i) perylene	480

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.: NY034

Units: ug/kg dry weight

~~Values reported in parentheses are estimated values, detected, but below the quantitation limit.~~

~~Elevated detection limits due to matrix interferences.~~

Authorized: _____

Date: _____



Semivolatile Organics Method 8270

PRELIMINARY

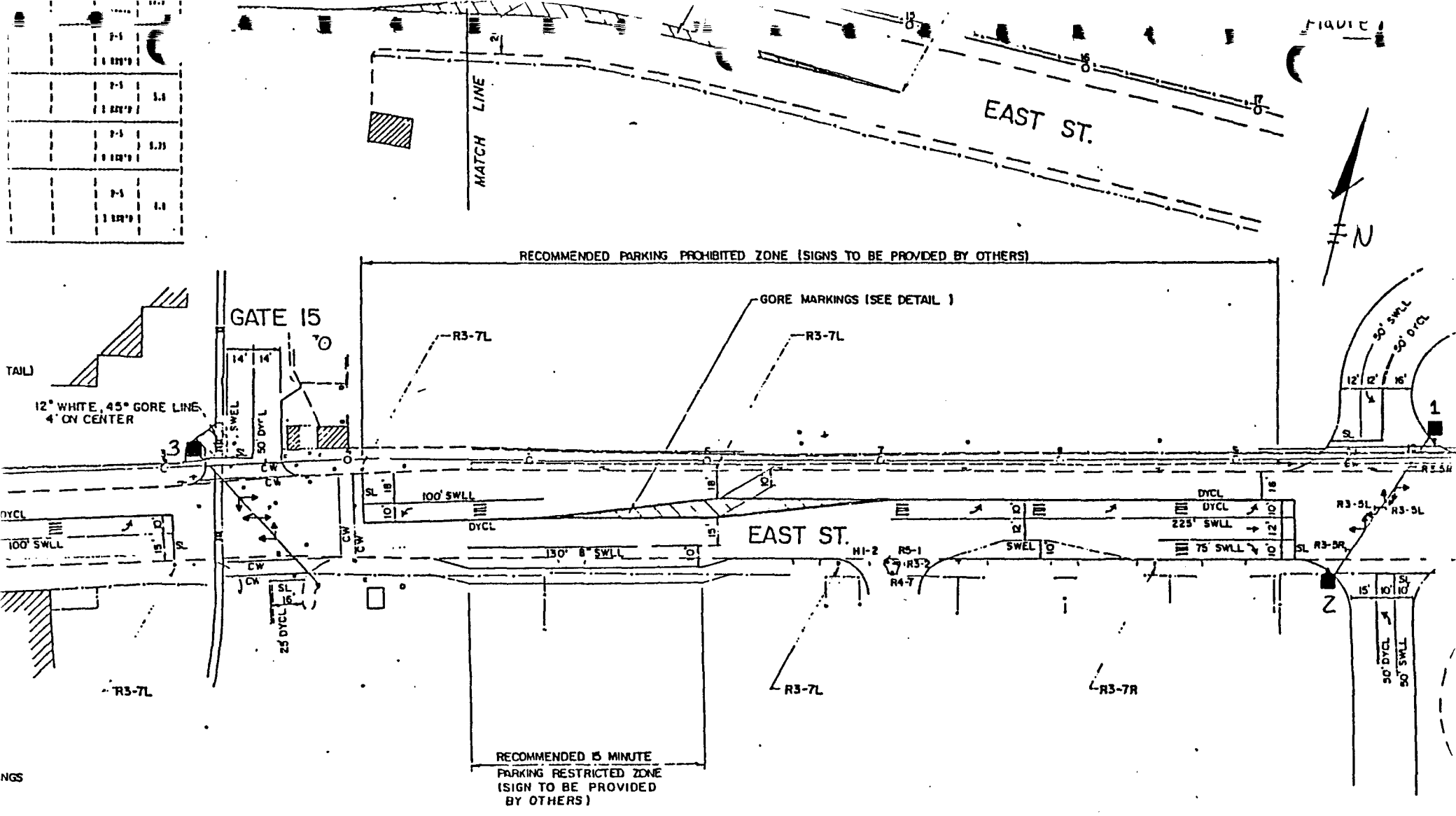
CLIENT Blasland & Bouck Engineers, P.C. JOB NO. 2887.026.517
 DESCRIPTION Strain Pole Excavation for Parking Lot
GE Pittsfield, MA Soil
 SAMPLE NO. L1736 DATE COLLECTED 10-16-90 DATE RECEIVED 10-17-90
 DATE EXTRACTED 10-22-90 DATE ANALYZED 10-24-90

Phenol	< 380	4-Chloro-3-methylphenol	< 380
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	< 1800
Benzyl alcohol		2-Chloronaphthalene	< 380
1,2-Dichlorobenzene		2-Nitroaniline	< 1800
2-Methylphenol		Dimethylphthalate	< 380
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	< 1800
Hexachloroethane		Acenaphthene	< 380
Nitrobenzene		2,4-Dinitrophenol	< 1800
Isophorone		4-Nitrophenol	< 1800
2-Nitrophenol		Dibenzofuran	< 380
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	< 1800	Diethylphthalate	
Bis (2-chloroethoxy) methane	< 380	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	< 1800
Naphthalene		4,6-Dinitro-2-methylphenol	< 1800
4-Chloroaniline		N-Nitrosodiphenylamine	< 380
Hexachlorobutadiene		4-Bromophenyl-phenylether	< 380

Authorized: _____

Date: _____

1	1.0
2	1.0
3	1.0
4	1.0
5	1.0
6	1.0
7	1.0
8	1.0
9	1.0
10	1.0
11	1.0
12	1.0
13	1.0
14	1.0
15	1.0
16	1.0
17	1.0
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24	1.0
25	1.0
26	1.0
27	1.0
28	1.0
29	1.0
30	1.0
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32	1.0
33	1.0
34	1.0
35	1.0
36	1.0
37	1.0
38	1.0
39	1.0
40	1.0
41	1.0
42	1.0
43	1.0
44	1.0
45	1.0
46	1.0
47	1.0
48	1.0
49	1.0
50	1.0



STRAIN POLE SOIL SAMPLING
101-93-11
■ - SAMPLE LOCATION

INSTRUCTION NOTES

1. Base Plan Of Existing Conditions, Including Survey Baseline, Physical Features and Elevations, Was Prepared By Hill Engineering, 50 Depot Street, Dalton, MA, 01226 Tel. (413) 684-0925, July 1989. Plan Sheets SRV-112-2, SRV-112-3, SRV-112-4

LEGEND

EXISTING	PROPOSED	
○	○	ROADWAY LAYOUT
⊙	⊙	PEDESTRIAN PUSH BUTTON
⊚	⊚	PEDESTRIAN SIGNAL
⊛	⊛	STREET LIGHT
⊜	⊜	TRAFFIC CONTROLLER
⊝	⊝	CATCH BASIN
⊞	⊞	HYDRANT
⊟	⊟	VEHICLE SIGNAL

APPENDIX J, SECTION B-2

DELIVERED TO
GRANT BOWMAN GE
(7-9-91)

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Heli-Pad Wind Sock Mast Soil Sampling

Date: 7-03-91
File No: 101-75-01
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted North of Bldg 60 on the concrete pad on 6-20-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by DBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 3080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
HPWSM-C1	53.0	1	SOIL	DISCRETE-GRAB	0-3"
HPWSM-C2	93.0	2	SOIL	DISCRETE-GRAB	0-1'
HPWSM-C3	38.0	3	SOIL	DISCRETE-GRAB	0-18"

jhh



SECTION LEADER: HC

BIN #: 61

LEVEL OF REPORT: 1

Laboratory Report

DATE SCHEDULED: 6/28/91
~~PRELIMINARY~~

CLIENT: Bosland & Bouck Engineers P.C. JOB NO. 2887-026-517
 DESCRIPTION: Heli-Pad Wind Sock Mast #: 101-75-01
Sampling MATRIX: Soil
 Date Analyzed: 6/28/91 DATE COLLECTED 6-20-91 DATE RECEIVED 6-21-91

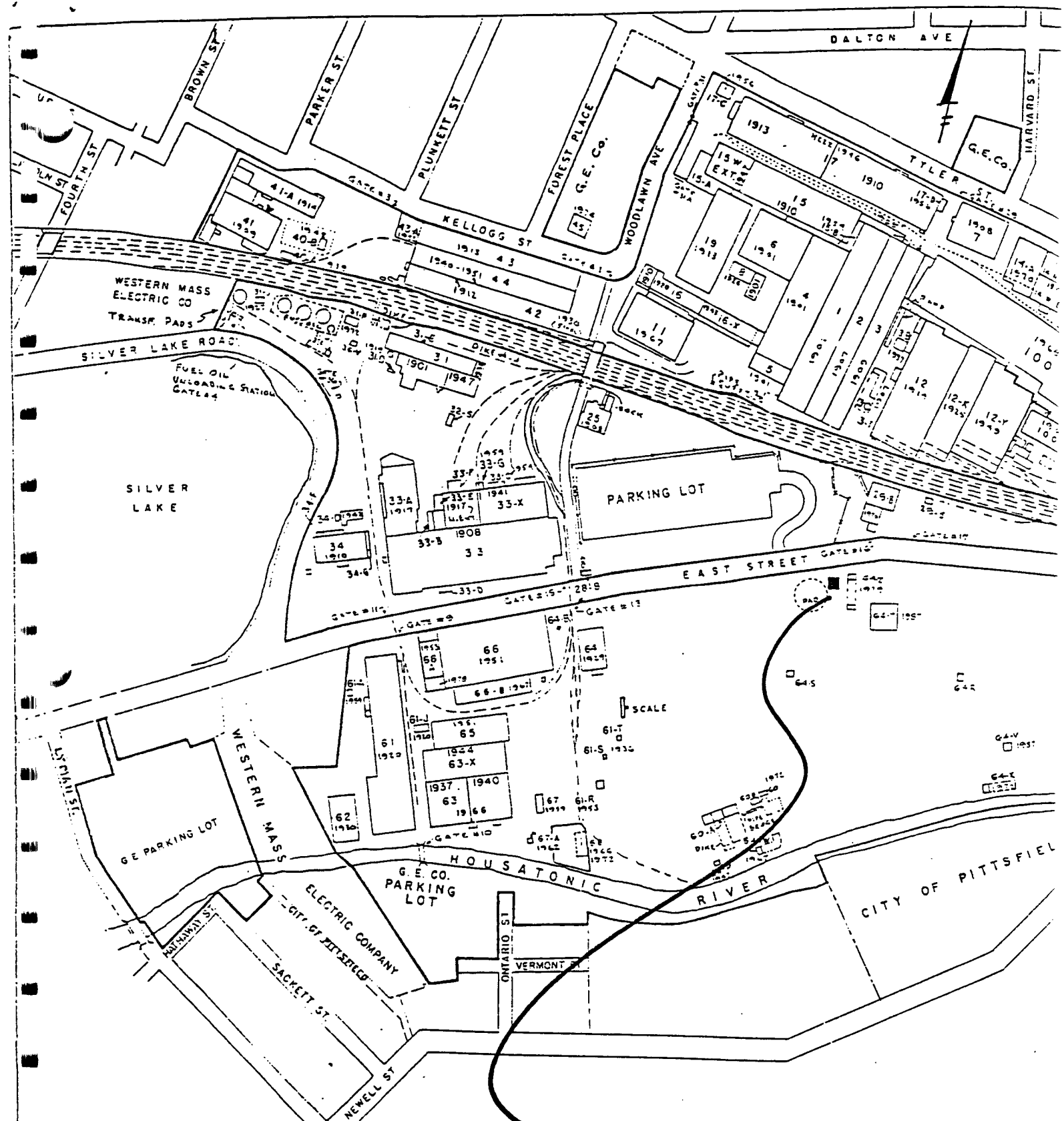
Description:	Lab#:	PCB	Atrodoy	PCTS
HPWSM-C1	m6566	53.	1250	91.
↓ -C2	↓ 67	93.	↓	89.
↓ -C3	↓ 68	38		91.

Comments:

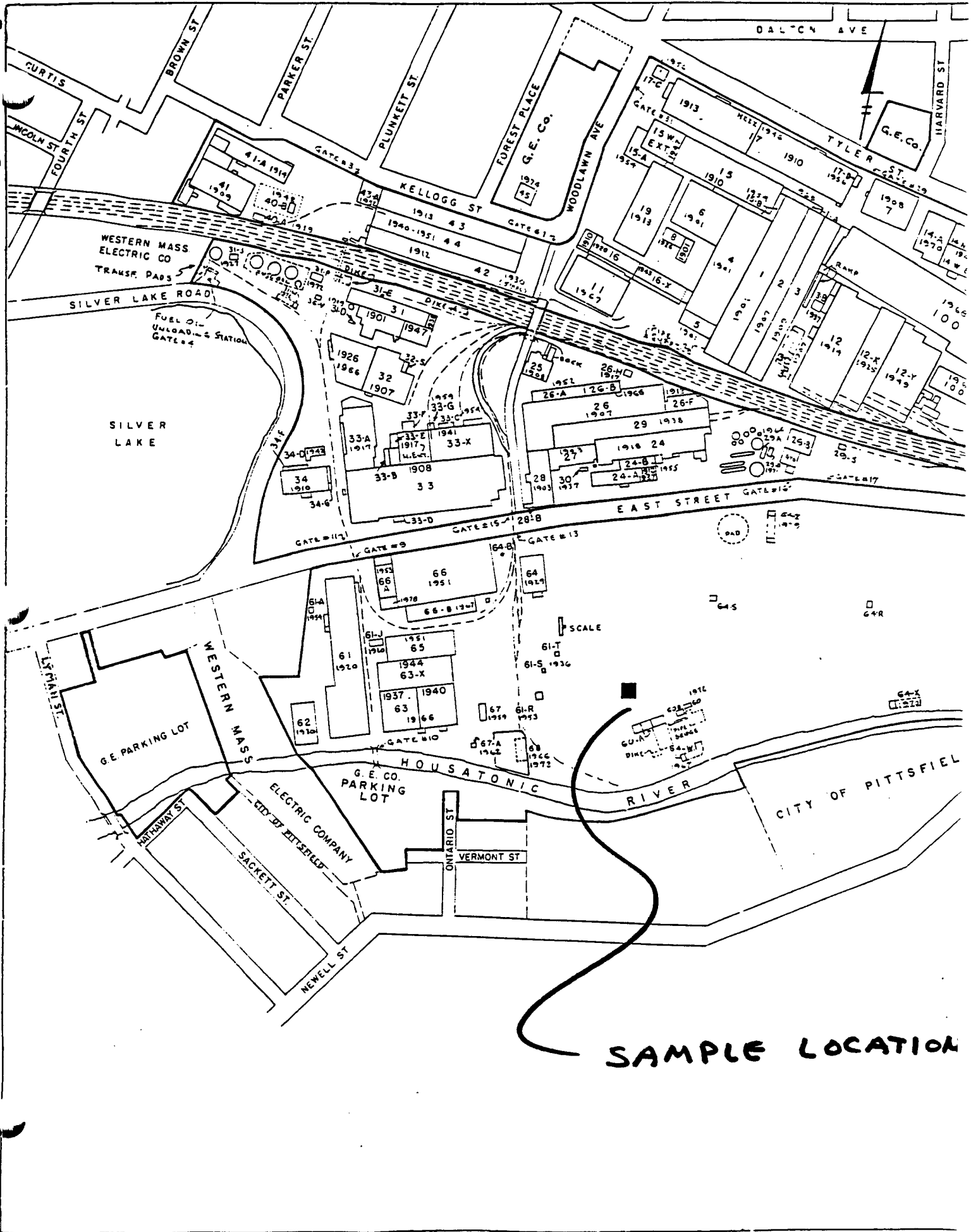
Certification No.: NY 034
 Units: mg/kg dry wt.

Authorized: _____

Date: _____



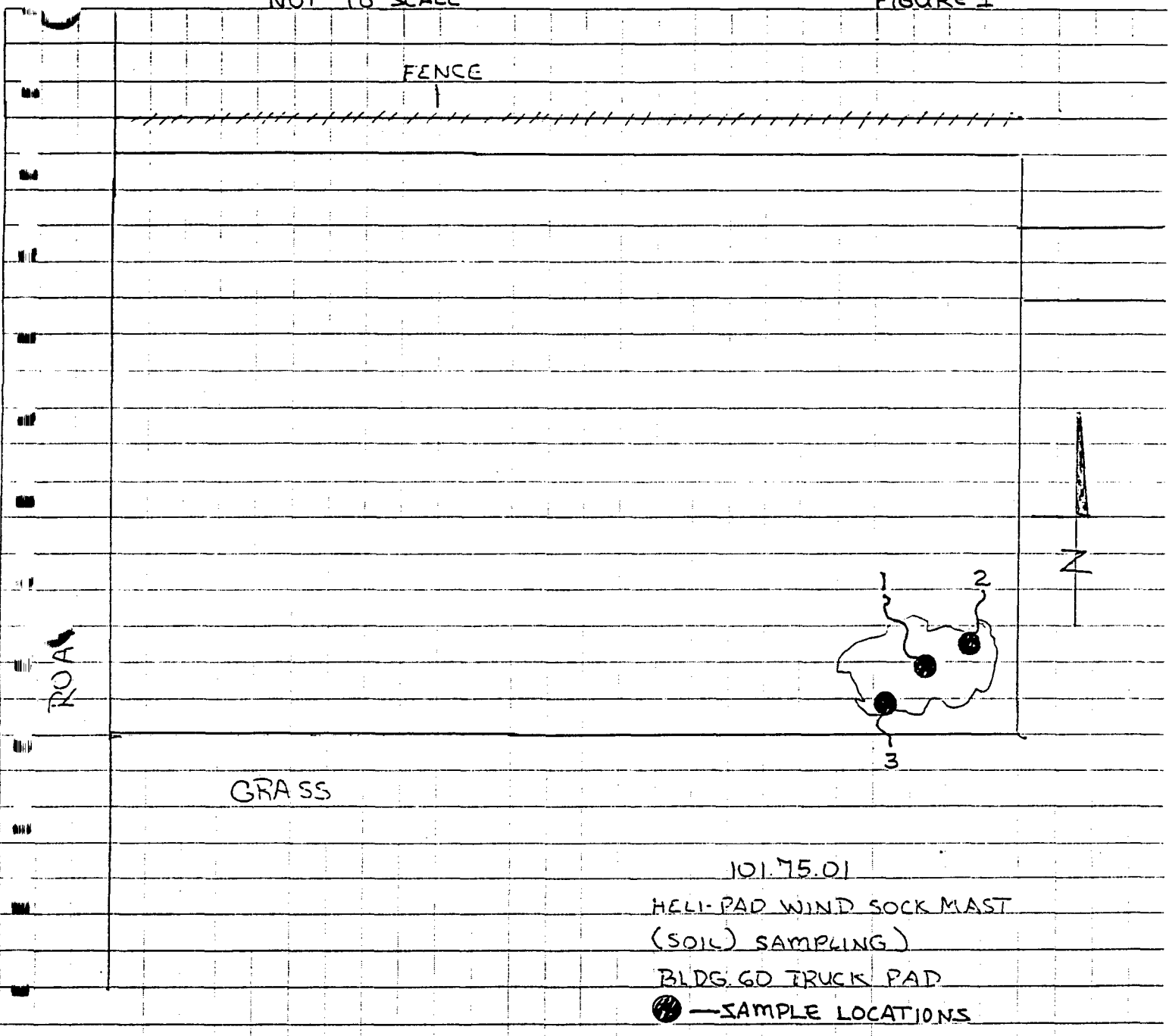
SITE LOCATION



SUBJECT	PROJ. NO.	BY	DATE	SHEET
HELI-PAD WIND SOCK MAST (SOIL) SAMPLING	101.75.01	A.G.P.	6-20-91	1 of 1

NOT TO SCALE

FIGURE 1



APPENDIX J, SECTION B-3

DELIVERED TO
GRANT BOWMAN (GE)
8-19-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Weather Station Soil Sampling

Date: 6-26-91
File No: 101-75-01
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB, VOC and Semi-Volatiles sampling program conducted North of Bldg 60 on the concrete pad on 6-6-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by DBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
WS-SS-C1	73.0	1	SOIL	DISCRETE-GRAB	0-1'
WS-SS-C2	66.0	2	SOIL	DISCRETE-GRAB	0-1'
WS-SS-C3	110.0	3	SOIL	DISCRETE-GRAB	0-1'

VOC SAMPLING RESULTS METHOD 8240

WS-SS-C4	(SEE DBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-1'
WS-SS-C6	(SEE DBG LAB REPORT)	2	SOIL	DISCRETE-GRAB	0-1'

SEMI-VOLATILES SAMPLING RESULTS METHOD 8270

WS-SS-C5	(SEE DBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-1'
WS-SS-C7	(SEE DBG LAB REPORT)	2	SOIL	DISCRETE-GRAB	0-1'

CLIENT: Blasland + Bouck Engineers P.C. JOB NO. 2887-026-517
 DESCRIPTION: Weather Station Soil Sampling #101-75-01
 MATRIX: Soil
 Date analyzed: 6/13/91 DATE COLLECTED: 6-6-91 DATE RECEIVED: 6-7-91

Description:	Lab#:	PCB-	Analysis	SEMI VOA-	PCTS
		8080		8270	
WS-SS-C1	M5669	73	1260	---	89
WS-SS-C2	M5660	66	↓	---	92
WS-SS-C3	M5661	110	↓	---	89
WS-SS-C4*	M5662	---	---	---	---
WS-SS-C5	M5663	---	---	---	---
WS-SS-C6*	M5664	---	---	---	---
WS-SS-C7	M5665	---	---	---	---

PRELIMINARY
26

Comments: * PCTS Not Scheduled -
 Only 1 Container per
 site. Please notify when
 VOA's are done so PCTS can
 be scheduled on these two.

Certification No.: NY 034
 Units: mg/kg dry wt.

Authorized: _____
 Date: _____



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Weather Station Soil Sampling B & B # 101.75.01
Pittsfield, MA - WS-SS-C5 MATRIX: Soil
 SAMPLE NO. M5663 DATE COLLECTED 6-06-91 DATE RECEIVED 6-07-91
 DATE EXTRACTED 6-13-91 DATE ANALYZED 6-19-91

Phenol	<1900.	4-Chloro-3-methylphenol	<1900.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<9100.
Benzyl alcohol		2-Chloronaphthalene	<1900.
1,2-Dichlorobenzene		2-Nitroaniline	<9100.
2-Methylphenol		Dimethylphthalate	<1900.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<9100.
Hexachloroethane		Acenaphthene	<1900.
Nitrobenzene		2,4-Dinitrophenol	<9100.
Isophorone		4-Nitrophenol	<9100.
2-Nitrophenol		Dibenzofuran	<1900.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<9100.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<1900.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<9100.
Naphthalene		4,6-Dinitro-2-methylphenol	<9100.
4-Chloroaniline		N-Nitrosodiphenylamine	<1900.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<1900.



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Weather Station Soil Sampling B & B # 101.75.01
Pittsfield, MA - WS-SS-C5 MATRIX: Soil
 SAMPLE NO. M5663 DATE COLLECTED 6-06-91 DATE RECEIVED 6-07-91
 DATE EXTRACTED 6-13-91 DATE ANALYZED 6-19-91

Hexachlorobenzene	<1900.	Benzo (a) anthracene	<1900.
Pentachlorophenol	<9100.	Chrysene	
Phenanthrene	<1900.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene	2400.	Benzo (a) pyrene	
Butylbenzylphthalate	<1900.	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<3800.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments: Elevated detection limits due to matrix interferences.

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

Authorized: *Anthony Crum*
Date: July 9, 1991



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Weather Station Soil Sampling B & B # 101.75.01
Pittsfield, MA - WS-SS-C7 MATRIX: Soil
 SAMPLE NO. M5665 DATE COLLECTED 6-06-91 DATE RECEIVED 6-07-91
 DATE EXTRACTED 6-13-91 DATE ANALYZED 6-19-91

Phenol	<1800.	4-Chloro-3-methylphenol	<1800.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	9600.
2-Chlorophenol		Hexachlorocyclopentadiene	<1800.
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	<1800.
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<8700.
Benzyl alcohol		2-Chloronaphthalene	<1800.
1,2-Dichlorobenzene		2-Nitroaniline	<8700.
2-Methylphenol		Dimethylphthalate	<1800.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<8700.
Hexachloroethane		Acenaphthene	<1800.
Nitrobenzene		2,4-Dinitrophenol	<8700.
Isophorone		4-Nitrophenol	<8700.
2-Nitrophenol		Dibenzofuran	<1800.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<8700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<1800.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<8700.
Naphthalene	26,000.	4,6-Dinitro-2-methylphenol	<8700.
4-Chloroaniline	<1800.	N-Nitrosodiphenylamine	<1800.
Hexachlorobutadiene	<1800.	4-Bromophenyl-phenylether	<1800.



Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Weather Station Soil Sampling B & B # 101.75.01
Pittsfield, MA - WS-SS-C7 MATRIX: Soil
 SAMPLE NO. M5665 DATE COLLECTED 6-06-91 DATE RECEIVED 6-07-91
 DATE EXTRACTED 6-13-91 DATE ANALYZED 6-19-91

Hexachlorobenzene	<1800.	Benzo (a) anthracene	<1800.
Pentachlorophenol	<8700.	Chrysene	
Phenanthrene	2100.	Bis (2-ethylhexyl) phthalate	
Anthracene	<1800.	Di-n-octylphthalate	
Di-n-butylphthalate	<1800.	Benzo (b) fluoranthene	
Fluoranthene	2400.	Benzo (k) fluoranthene	
Pyrene	3400.	Benzo (a) pyrene	
Butylbenzylphthalate	<1800.	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<3600.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments: Elevated detection limits due to matrix interferences.

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

Authorized: *Anthony Curran*
Date: July 9, 1991

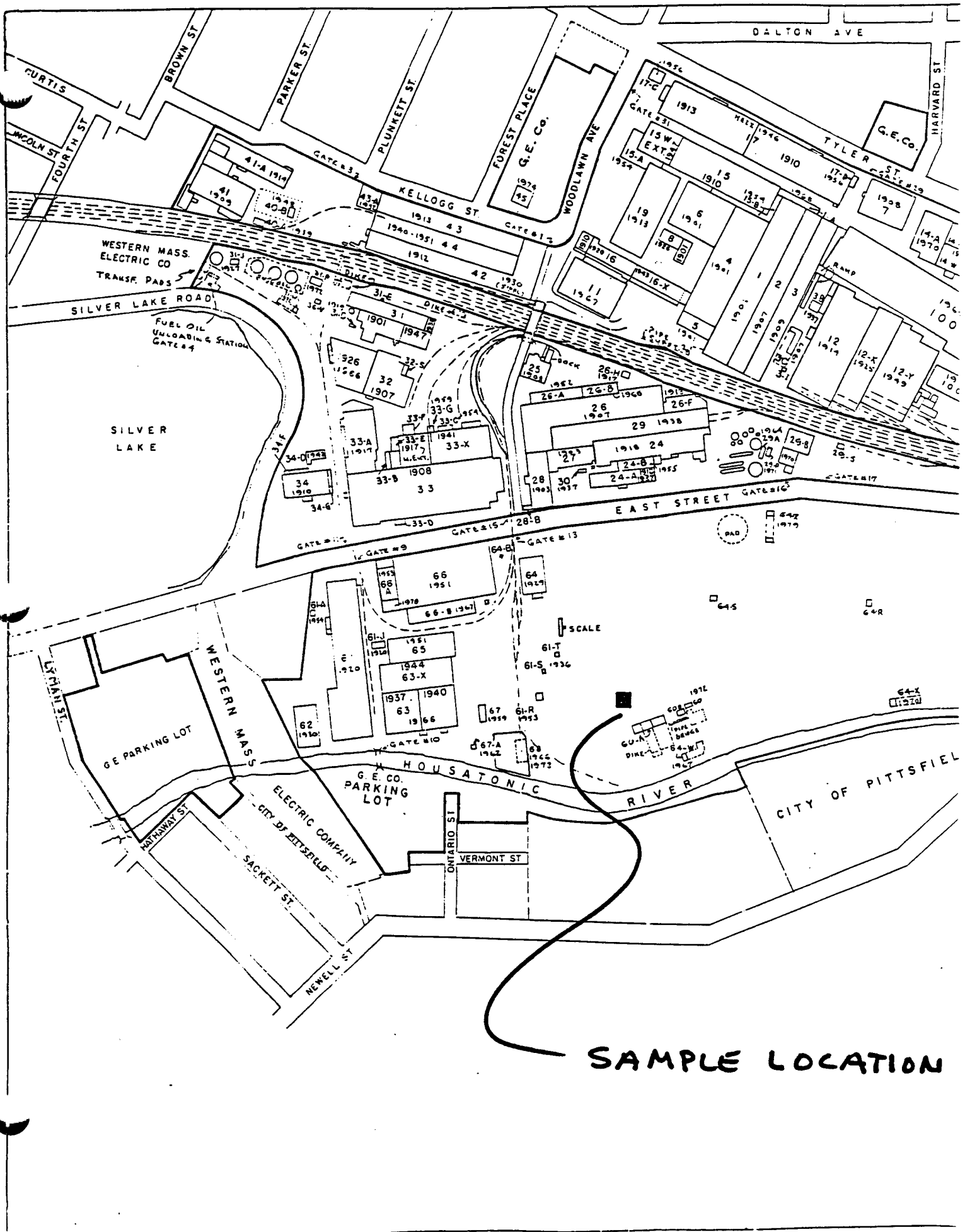


Volatile Organics

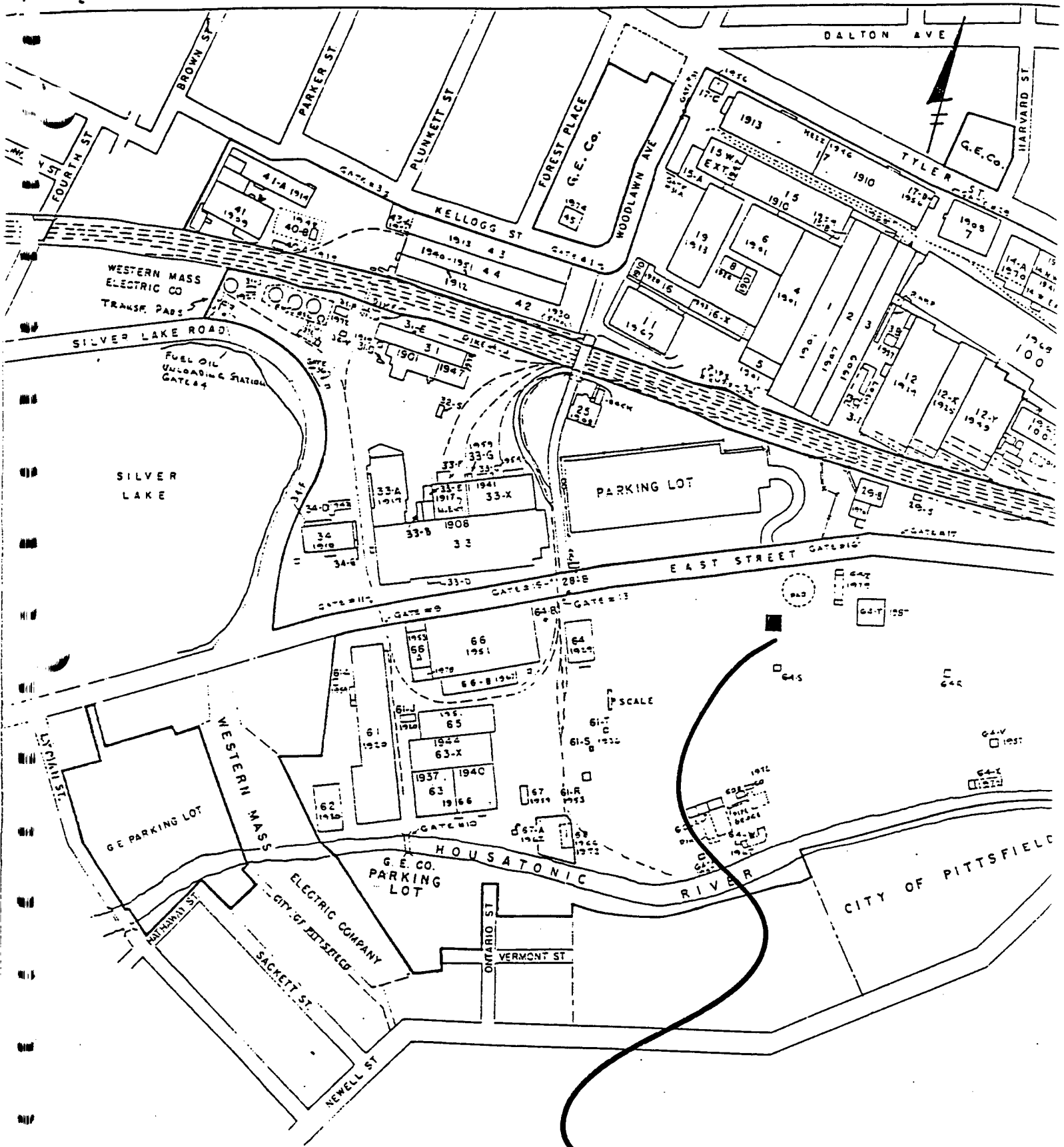
Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Weather Station Soil Sampling B & B # 101.75.01
Pittsfield, MA MATRIX: Soil
 DATE COLLECTED 6-6-91 DATE RECEIVED 6-7-91 DATE ANALYZED 6-14-91

DESCRIPTION:	WS-SS-C4	WS-SS-C6			
SAMPLE NO.:	M5662	M5664			
Chloromethane	<12.	<11.			
Bromomethane					
Vinyl chloride					
Chloroethane					
Methylene chloride	<6.	<5.			
Acetone	<12.	<11.			
Carbon disulfide	<6.	<5.			
1,1-Dichloroethene					
1,1-Dichloroethane					
1,2-Dichloroethene (total)					
Chloroform					
1,2-Dichloroethane					
2-Butanone	<12.	<11.			
1,1,1-Trichloroethane	<6.	<5.			
Carbon tetrachloride	<6.	<5.			
Vinyl acetate	<12.	<11.			
Bromodichloromethane	<6.	<5.			
1,2-Dichloropropane					
cis-1,3-Dichloropropene					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					

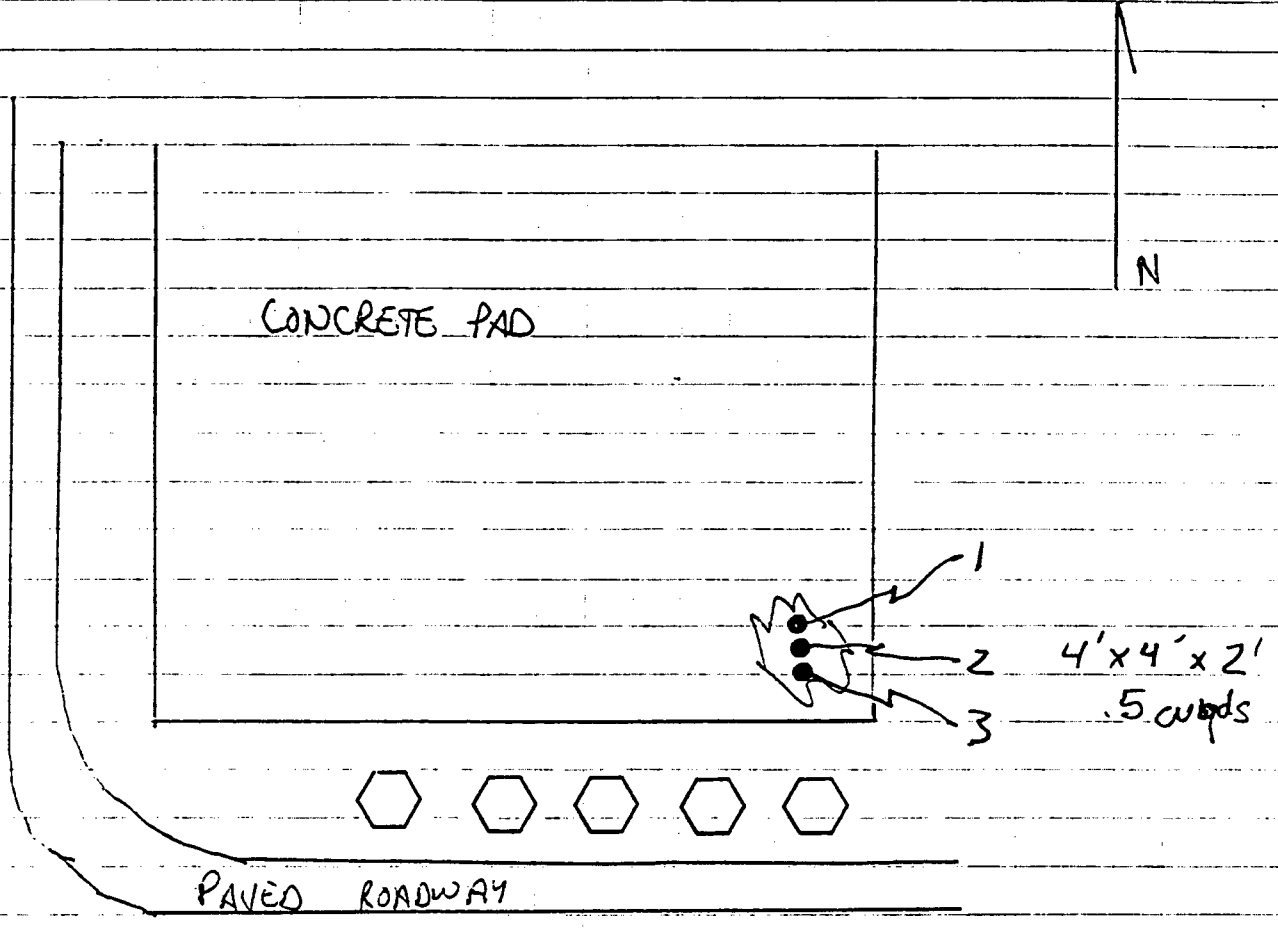


SAMPLE LOCATION



SITE LOCATION

SUBJECT WEATHER STATION SOIL SAMPLING	PROJ. NO. 101-75-01	BY JJH	DATE 6-10-91	SHEET 1 of 1
--	------------------------	-----------	-----------------	-----------------



WEATHER STATION SOIL SAMPLING

101-75-01



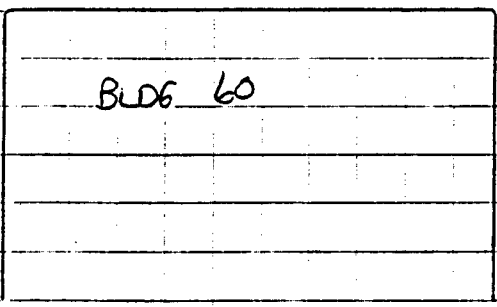
- SOIL PILE



- TREES



- SAMPLE LOCATION



APPENDIX J, SECTION B-4



BLASLAND, BOUCK & LEE, INC.

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: 64Z Oil/Water Separator
Sand/Sediment Sampling

DATE: June 3, 1994
FILE NO.: 201.22.03

INITIATOR: Tom Armstrong (GE)

DATE: 5-17-94

LOCATION: 64Z Oil/Water Separator

CONTACT PERSON: Aimee Cole (GEC)

EXT: 2534

ITEM DESCRIPTION:

1.) Sand/Sediment

PURPOSE: To collect samples for GE to determine the proper disposal method of the sand/sediment located in the area from the barrel screen toward the incoming end of 64Z Oil/Water Separator. (See attached request for sampling letter from Aimee Cole (GE) to Bruce Eulian (BBL) dated May 17, 1994).

NOTES:

- 1.)** One (1) field-composite sample of the sand/sediment is to be collected and analyzed for PCBs (Method 8080).
- 2.)** GE requests that the sample collected be analyzed by OBG Laboratory, Pittsfield, MA.

May 17, 1994

To: B. Eulian B & B

cc: J. Nicholson

From: A. Cole 

Re: Sampling of 64 Z, 31W, 119W

Please take field composite samples of the sand/sediment in the separators 64Z, 31W, and 119W for PCB's. Tom Armstrong has requested the samples be taken in the area from the barrel screen toward the incoming end. ~~PCB's~~ OBG PITTSFIELD PER ATC
5-19-94

These samples may be sent to the GE lab. The sampling of 31W should be charged to 201.22.06, 119W to 201.22.05, and 64Z to 201.22.03.

Please take an additional sample at 31W for TCLP ^{ONLY FOR} Mercury and send it to ALPHA
PO# PE 2005900. 1 QT. METHOD 1311



BLASLAND, BOUCK & LEE, INC.

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: 64Z Oil/Water Separator
Sand/Sediment Sampling

DATE: May 27, 1994
FILE NO.: 201.22.03
cc: Grant Bowman (GE)
Tom Armstrong (GE)

The following is a summary of the sampling program conducted on 5-19-94 on the sand/sediment located in the area from the barrel screen toward the incoming end of 64Z Oil/Water Separator.

At the request of Aimee Cole (GE) the following sampling program was implemented:

- One (1) field-composite sample of sand/sediment was collected and analyzed for PCBs (Method 8080).

Note:

The sample was collected using a 2" I.D. Lexan® tube.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). Preliminary analytical reports provided by OBG Laboratories of Pittsfield, MA (Attachment 1) and a copy of the chain of custody that accompanied this sample (Attachment 2) are also included.



BLASLAND, BOUCK & LEE, INC.

**64Z Oil/Water Separator
Sand/Sediment Sampling**

(201.22.03)

(Table 1)

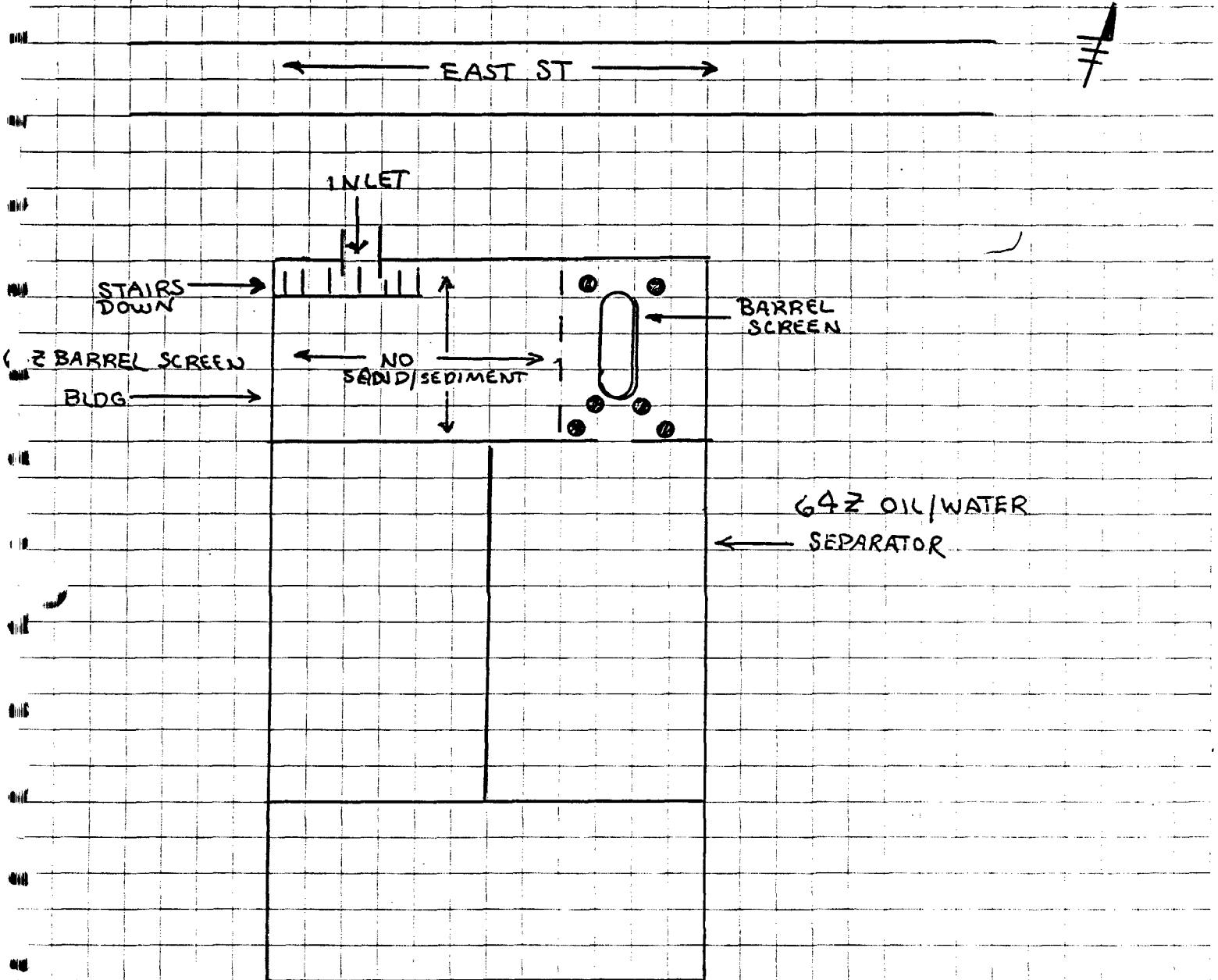
LAB ID	SAMPLE DATE	PCBs (METHOD 8080) PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
64Z-OWS-C1	5-19-94	86.	1 - 6	SAND/SEDIMENT	FIELD-COMPOSITE	0-6"	2

Note:

The sample was collected using a 2" I.D. Lexan® tube.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
64Z OIL/WATER SEPARATOR SAND/SEDIMENT SAMPLING	201.22.03	AGP	5-23-94	1 of 1

FIGURE 2



LEGEND
● - SAMPLE LOCATION

64Z OIL/WATER SEPARATOR
SAND/SEDIMENT SAMPLING
(201.22.03)

NOTES
NOT TO SCALE

Attachment 1

4550



PRELIMINARY Laboratory Report

MAY 23 1994

CLIENT BLASLAND, BOUCK & LEE, INC.

JOB NO. 2887.026 520

DESCRIPTION G.E., Pittsfield

BB&L Job No. 201-22-03

64Z OIL WATER SEPARATOR SAND / SEDIMENT Sampling

Date Analyzed 5/23/94 DATE COLLECTED See Below DATE RECEIVED 5/20/94

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
64Z-OWS-C1	5/20/94	5/19/94	61	71%	86	sand/sediment A	
A. Reagent Blank 052094-1:						<1	
Reference Sample 052094-1:						2.4/3 = 80%	
Matrix Spike 64Z-OWS-C1:						3.5/3 = 117%	
Matrix Spike Duplicate:						3.5/3 = 117%	
Precision:					3.5 vs 3.5 = 0% RPD		

Comments:

Certification No.: NY034

Units: mg/kg (dry wt.)

Authorized: _____

Date: _____

Attachment 2

BLASLAND & BOUCK ENGINEERS. P.C.
(REQUEST FOR SAMPLING)

TO: Files

DATE: 11-2-92

FROM: Bruce Eulian

FILE NO: 101.75.23

RE: Miscellaneous Drum Sampling - Soil
(Originating from Bldgs 64W, 64X and 64Z Oil/Water Separators)

INITIATOR: Aimee Cole (GE)

DATE: 10-27-92

BLDG. LOCATION: Bldg 71

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples so GE can determine the proper disposal method of the soil placed in GE drum #'s 41541, 41547, 41558, 41571, 41568 (originating from Bldg 64W Oil/Water Separator), GE drum #'s 41484, 41505, 41514, 41517, 41529 (originating from Bldg 64X Oil/Water Separator) and GE drum #'s 41420, 41425, 41432, 41470, 41481 (originating from Bldg 64Z Oil/Water Separator), located in Bldg 71.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE), (see attached sampling request letter dated 10-27-92).

1.) Soil placed in above mentioned GE drum #'s (located in Bldg 71), are to be sampled for PCB's Method 8080.

2.) GE requests the samples to be analyzed for PCB's at Pittsfield GE laboratory.

jhh

10-27-92

SUPERCEDES_10-21-92_MEMO

SAMPLING_REQUEST

TO: BRUCE EULIAN - B & B

FROM: A. COLE - GEC *AC*

RE: SAMPLING OF DRUMS AT BLDG. 71 FROM 64W, X, Z

About 58 drums of material from cleanout of the separators are located in bldg. 71. Drums from Bldgs. 64Z, 64X and 64W will be separated into three groups. Please sample the drums listed below for PCB. Specifically, we know these drums contain greater than 50 ppm but the request has been made by Tom Armstrong to ascertain how many, if any, come back higher than 500 ppm. Based on our previous sampling and after discussion with Grant, Tom and Jeff, the decision has been made to proceed with representative sampling. Should results indicate borderline levels around 500 ppm, more extensive (each drum) sampling may be requested. Please deliver the samples to Jeff Nicholson in the GE lab for dry weight PCB analysis. I have spoken with the lab and Jeff Nicholson is prepared to do these analyses.

The drums listed below were chosen by the date of filling assuming that the earlier dated drums represent the more shallow material in each separator. These may be grab samples.

SEPARATOR_64Z

SEPARATOR_64X

SEPARATOR_64W

41420
41425
41432
41470
41481

41484
41505
41514
41517
41529

41541
41547
41558
41571
41568

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Miscellaneous Drum Sampling - Soil
(Originating from Bldgs 64W, 64X and
64Z Oil/Water Separators)

Date: 11-2-92
File No: 101.75.23
cc: Grant Bowman (GE)
Robert Rhoades (B&B)

The following is a summary of the sampling program conducted on 11-2-92 on the soil placed in GE drum #'s 41541, 41547, 41559, 41571, 41568 (originating from Bldg 64W Oil/Water Separator), GE drum #'s 41484, 41505, 41514, 41517, 41529 (originating from Bldg 64X Oil/Water Separator) and GE drum #'s 41420, 41425, 41432, 41470, 41481 (originating from Bldg 64Z Oil/Water Separator), located in Bldg 71.

At the request of Aimee Cole (GE), the following samples were collected:

Bldg 64W

GE Drum #'s 41541 - (1) discrete-grab sample for PCB's Method 8080
41547 - (1) discrete-grab sample for PCB's Method 8080
41558 - (1) discrete-grab sample for PCB's Method 8080
41571 - (1) discrete-grab sample for PCB's Method 8080
41568 - (1) discrete-grab sample for PCB's Method 8080

Bldg 64X

GE Drum #'s 41484 - (1) discrete-grab sample for PCB's Method 8080
41505 - (1) discrete-grab sample for PCB's Method 8080
41514 - (1) discrete-grab sample for PCB's Method 8080
41517 - (1) discrete-grab sample for PCB's Method 8080
41529 - (1) discrete-grab sample for PCB's Method 8080

Bldg 64Z

GE Drum #'s 41420 - (1) discrete-grab sample for PCB's Method 8080
41425 - (1) discrete-grab sample for PCB's Method 8080
41432 - (1) discrete-grab sample for PCB's Method 8080
41470 - (1) discrete-grab sample for PCB's Method 8080
41481 - (1) discrete-grab sample for PCB's Method 8080

Note: Samples were collected using a 2" diameter Lexan Tube.

A summary table of the sampling program has been provided (Table 1) along with drawings showing the site locations (Figures 1 & 2) and sample location (Figure 3). An analytical report has also been provided by Pittsfield GE Laboratory (Attachment 1).

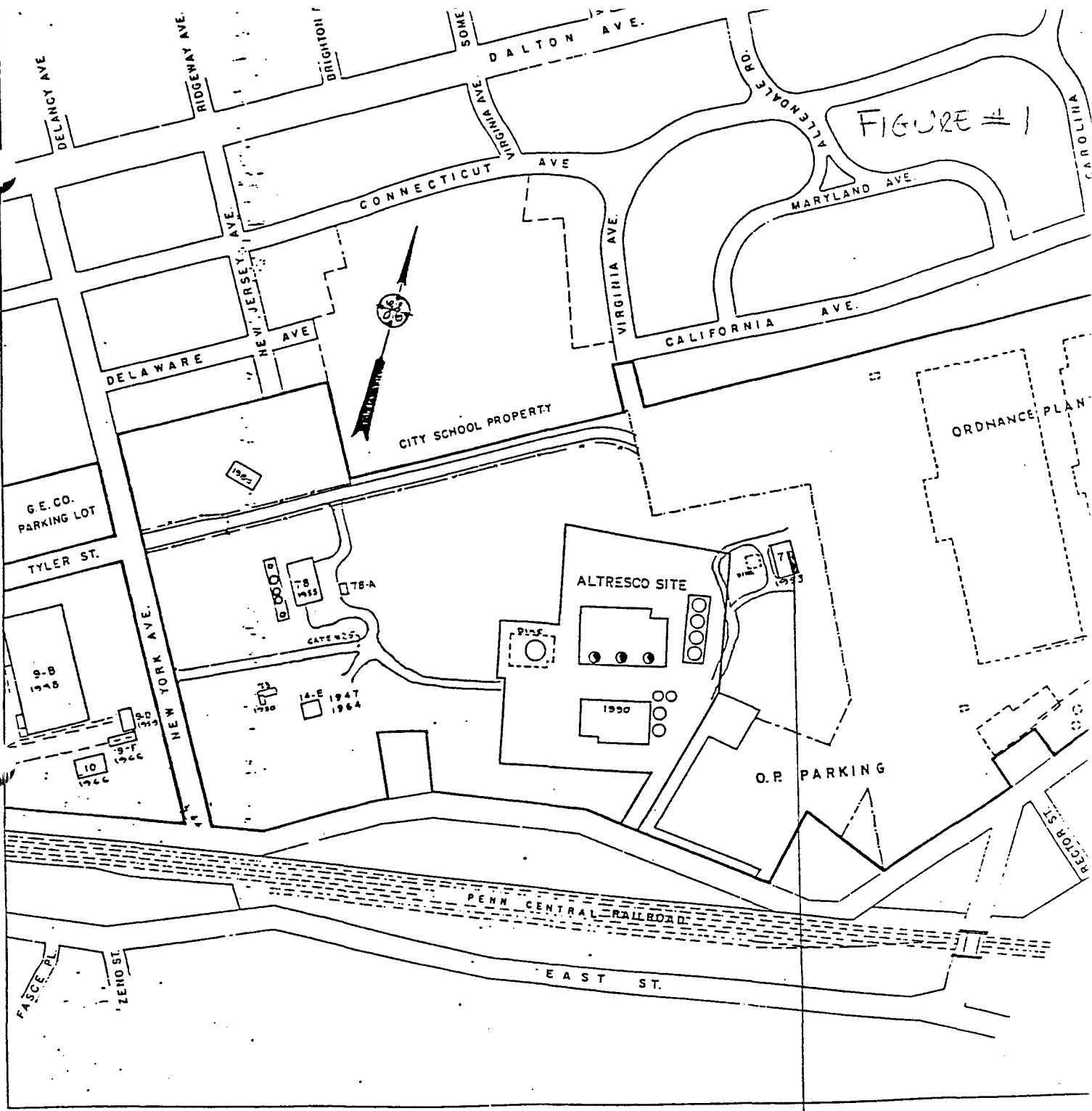
Miscellaneous Drum Sampling - Soil
 (Originating from Bldgs 64W, 64X and 64Z Oil/Water Separators)

101.75.23

Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	SAMPLE DATE	TOTAL PCB'S PPM	GE DRUM #	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
<u>BLDG 64W DRUMS</u>							
71-41541-01	11-2-92	33.7	41541	SOIL	DISCRETE-GRAB	0-28"	3
71-41547-01	11-2-92	40.3	41547	SOIL	DISCRETE-GRAB	0-30"	3
71-41558-01	11-2-92	321.7	41558	SOIL	DISCRETE-GRAB	0-30"	3
71-41571-01	11-2-92	963.4	41571	SOIL	DISCRETE-GRAB	0-29"	3
71-41568-01	11-2-92	1311.8	41568	SOIL	DISCRETE-GRAB	0-28"	3
<u>64X DRUMS</u>							
71-41484-01	11-2-92	23.5	41484	SOIL	DISCRETE-GRAB	0-28"	3
71-41505-01	11-2-92	19.8	41505	SOIL	DISCRETE-GRAB	0-26"	3
71-41514-01	11-2-92	33.3	41514	SOIL	DISCRETE-GRAB	0-28"	3
71-41517-01	11-2-92	29.2	41517	SOIL	DISCRETE-GRAB	0-30"	3
71-41529-01	11-2-92	34.8	41529	SOIL	DISCRETE-GRAB	0-29"	3
<u>BLDG 64Z DRUMS</u>							
71-41420-01	11-2-92	55.0	41420	SOIL	DISCRETE-GRAB	0-28"	3
71-41425-01	11-2-92	39.6	41425	SOIL	DISCRETE-GRAB	0-28"	3
71-41432-01	11-2-92	107.8	41432	SOIL	DISCRETE-GRAB	0-28"	3
71-41470-01	11-2-92	114.3	41470	SOIL	DISCRETE-GRAB	0-28"	3
1481-01	11-2-92	177.9	41481	SOIL	DISCRETE-GRAB	0-28"	3



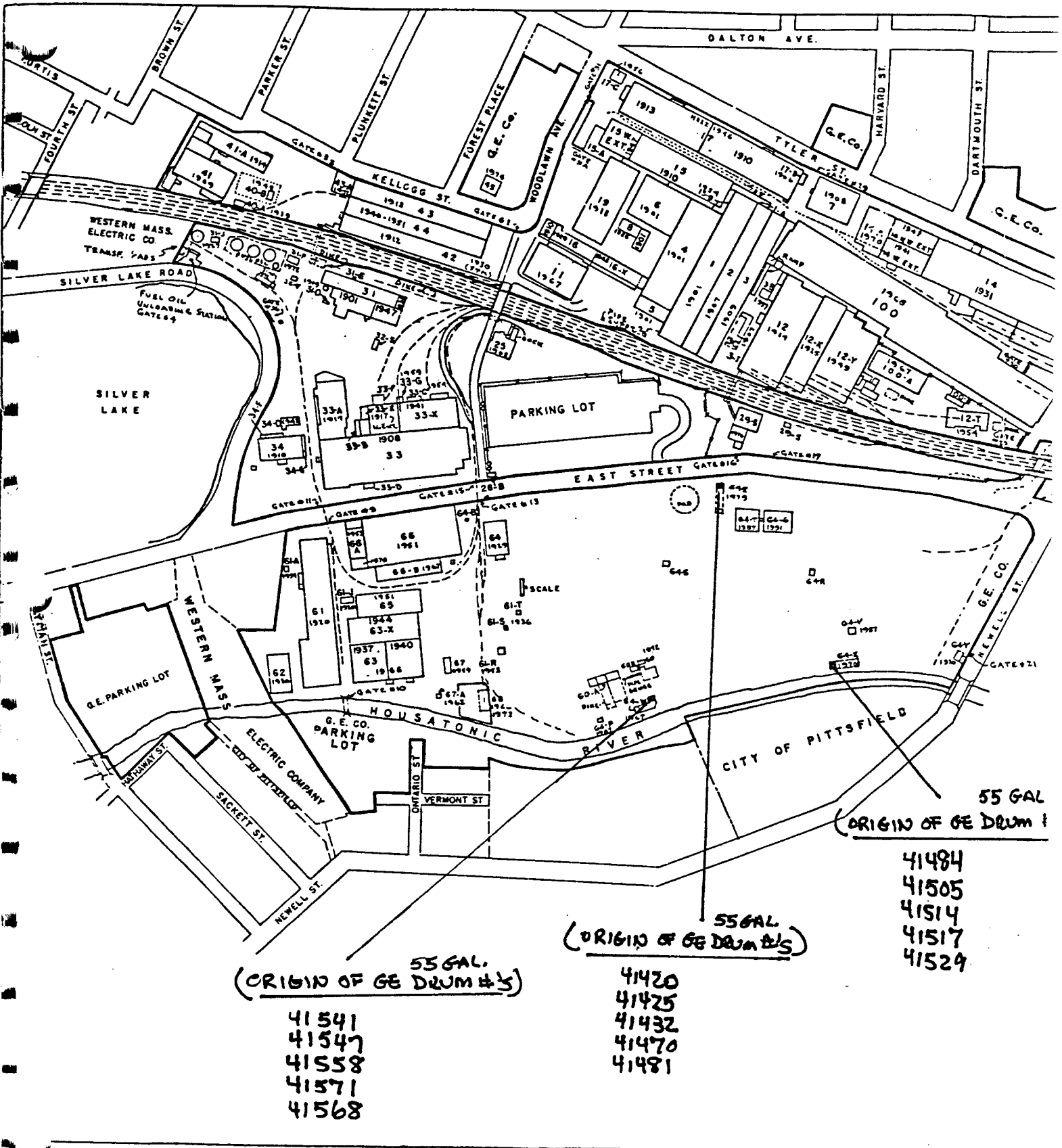
MISCELLANEOUS DRUM SAMPLING - SOIL
 (ORIGINATING FROM BLDGS 64W, 64X AND 64Z OIL-WATER SEPARATORS)

(101.75.23)

(LOCATION OF 55 GALLON DRUMS
 GB DRUM #'S)

<u>64W</u>	<u>64X</u>	<u>64Z</u>
41541	41484	41420
41547	41505	41425
41558	41514	41432
41571	41517	41470
41568	41529	41481

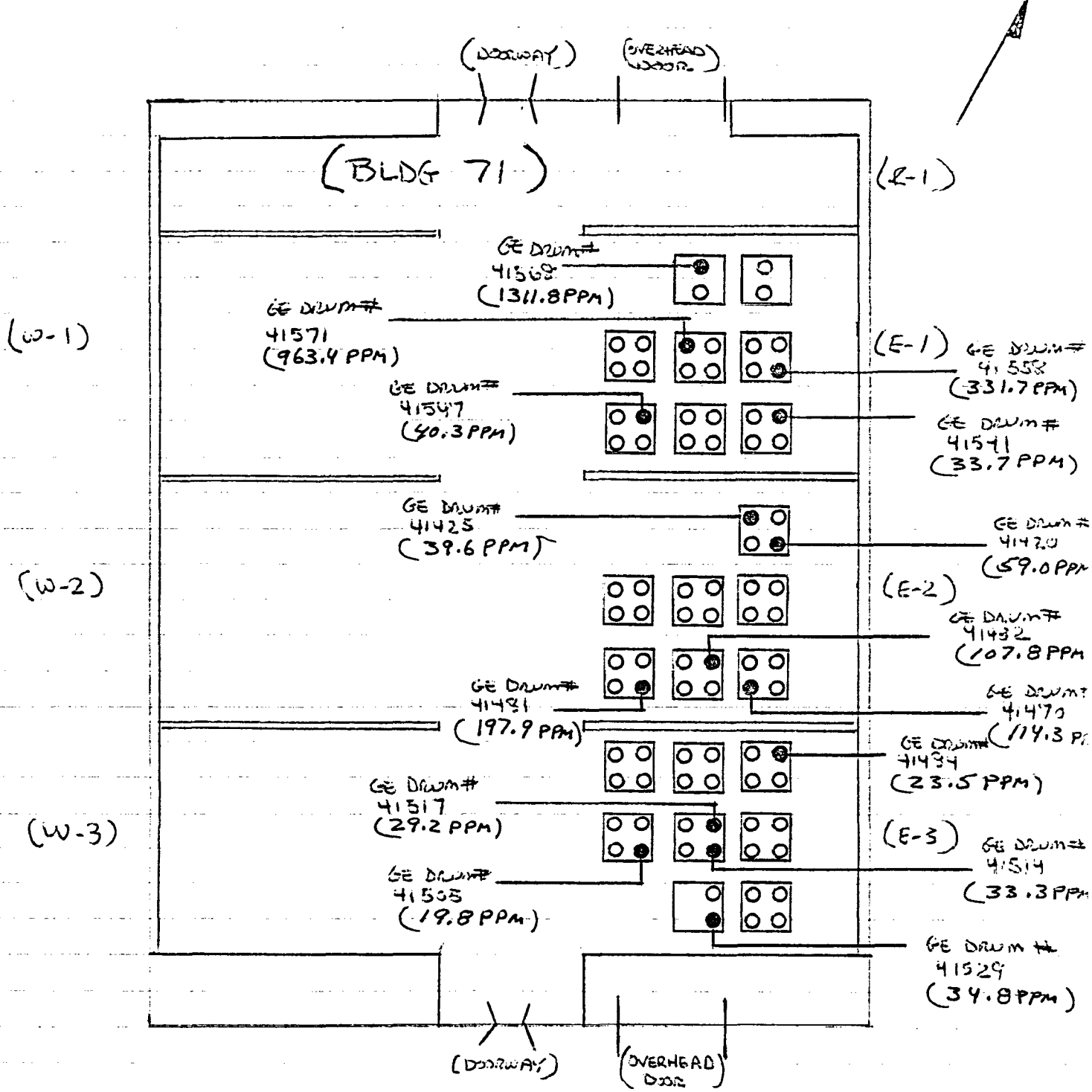
FIGURE # 2



MISCELLANEOUS DRUM SAMPLING - SOIL
 ORIGINATING FROM BUGS 640, 64X AND 64Z OIL/WATER SEPARATORS

(101.75.23)

FIGURE #3



- LEGEND
- (NOT TO SCALE)
- - PALLET
 - - 55 GALLON DRUM
 - - 55 GALLON DRUM (SAMPLE LOCATION)
 - (E-1) - BAY NUMBER (SUNSHED BAYS)

ATTACHMENT 1

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Pittsfield, Mass

PCB Analysis

Misc. Drum Samples - A. Cole

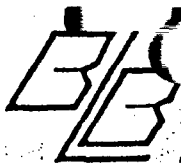
11/30/1992

SAMPLE NAME	FILE BASE	RESULTS PACKED COLUMN
71-41420-C1	41420	59.0 ug/g
71-41425-C1	41425	39.6 ug/g
71-41432-C1	41432	107.8 ug/g
71-41470-C1	41470	114.3 ug/g
71-41505-C1	41505	19.8 ug/g
71-41514-C1	41514	33.3 ug/g
71-41517-C1	41517	29.2 ug/g
71-41541-C1	41541	33.7 ug/g
71-41529-C1	41529	34.8 ug/g
71-41547-C1	41547	40.3 ug/g
71-41558-C1	41558	331.7 ug/g
71-41568-C1	41568	1311.8 ug/g
71-41571-C1	41571	963.4 ug/g
71-41481-C1	41481	197.9 ug/g
71-41484-C1	41484	23.5 ug/g

NOTE: PCB concentrations were calculated on DRY sample weight.

DISTRIBUTION:

A. Cole
WA Fessler
File



BLASLAND & BOUCK ENGINEERS, P.C.

6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

PLEASE SEND LAB REPORT TO:
BRUCE EULIAN
BLASLAND & BOUCK ENGINEERS
C/O GE POWER TRANSFORMER DEPT.
MAILCODE D-32
100 WOODLAWN AVE.
PITTSFIELD, MA 01201
CC: ROBERT RHOADES
BLASLAND & BOUCK ENGINEERS
6723 TOWPATH RD.
SYRACUSE, NY 13214

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	PCB'S METHOD 8080					REMARKS
101.75.23		MISC DRUM SAMPLING - SOIL (BUCKS 64W, 64X AND 64Z OIL/WATER SEPARATORS)													
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE									
					SOLID (SOIL)	WPE	WATER								
71-41420-C1		11/2/92	1220		X	X			1	X					
71-41425-C1		11/2/92	1235		X	X			1	X					
71-41432-C1		11/2/92	1250		X	X			1	X					SAMPLED PER:
71-41470-C1		11/2/92	1305		X	X			1	X					AIMEC COLLECTOR
71-41481-C1		11/2/92	1320		X	X			1	X					
71-41484-C1		11/2/92	1335		X	X			1	X					
71-41505-C1		11/2/92	1350		X	X			1	X					
71-41514-C1		11/2/92	1405		X	X			1	X					
71-41517-C1		11/2/92	1420		X	X			1	X					
71-41529-C1		11/2/92	1435		X	X			1	X					
71-41541-C1		11/2/92	1450		X	X			1	X					
71-41547-C1		11/2/92	1505		X	X			1	X					
71-41558-C1		11/2/92	1520		X	X			1	X					
71-41571-C1		11/2/92	1535		X	X			1	X					
71-41568-C1		11/2/92	1550		X	X			1	X					
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)	
<i>[Signature]</i>		11/2/92 1220 to 1550 hr		<i>[Signature]</i>				<i>[Signature]</i>				11/2/92 4:15		<i>[Signature]</i> 4:21 PM	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)				DATE/TIME		REMARKS					
										SENT TO PITTSFIELD GE LABORATORY					

BLASLAND & BOUCK ENGINEERS, P.C.
(REQUEST FOR SAMPLING)

TO: Files

DATE: 12-16-92

FROM: Bruce Eulian

FILE NO: 101.75.23

RE: Miscellaneous Drum Sampling -- Soil
(Originating from Bldg 64W Oil/Water Separator)

INITIATOR: Aimee Cole (GE)

DATE: 12-11-92

BLDG. LOCATION: Bldg 71

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect soil samples for PCB's so GE can determine the proper disposal method on the soil placed in GE drum #'s 41543, 41539, 41544, 41549, 41555, 41572, 41570, 41573, 41566, 41557, 41548, 41538, 41540, 41542, 41546, 41556, 41552, 41553, 41569, 41567, 41559, 41545 and 41554 (originating from Bldg 64W Oil/Water Separator), located in Bldg 71.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE), (see attached sampling request letter dated 12-11-92).

1.) Soil placed in above mentioned GE drum #'s (located in Bldg 71), are to be sampled for PCB's and analyzed using Method 8080.

2.) GE requests the samples collected be analyzed at Pittsfield GE Laboratory.

12-11-92

MEMORANDUM

TO: B. Eulian

cc: T. Armstrong

From: A. Cole

Re: Sampling remaining drums from 64 W

Due to the large gap between PCB results on the initial random sampling of drums from 64 W which are stored in Bldg. 71, please sample the following drums for PCB as well. The analysis may be done at the GE Lab.

Orange ID #.

1	41543	7 41570	13 41540	19 41569
2	41539	8 41573	14 41542	20 41567
3	41544	9 41566	15 41546	21 41559
4	41549	10 41557	16 41556	22 41545
5	41555	11 41548	17 41552	23 41554
6	41572	12 41538	18 41553	

SLASLAND AND BOWEN ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Miscellaneous Drum Sampling - Soil
(Originating from Bldg 64W Oil/Water Separator)

Date: 12-16-92
File No: 101.75.23
cc: Grant Bowman (GE)
Robert Rhoades (323)

The following is a summary of the sampling program conducted on 12-16-92 on the soil placed in GE drum #'s 41543, 41544, 41545, 41546, 41547, 41548, 41549, 41550, 41551, 41552, 41553, 41554, 41555, 41556, 41557, 41558, 41559, 41560 and 41561 (originating from Bldg 64W Oil/Water Separator), located in Bldg 71.

At the request of Alisa Cole (GE), the following samples were collected:

Bldg 64W

GE Drum #'s 41543 - collect one field-composite sample and analyze for PCB's (Method 8060)
41544 - collect one field-composite sample and analyze for PCB's (Method 8060)
41545 - collect one field-composite sample and analyze for PCB's (Method 8060)
41546 - collect one field-composite sample and analyze for PCB's (Method 8060)
41547 - collect one field-composite sample and analyze for PCB's (Method 8060)
41548 - collect one field-composite sample and analyze for PCB's (Method 8060)
41549 - collect one field-composite sample and analyze for PCB's (Method 8060)
41550 - collect one field-composite sample and analyze for PCB's (Method 8060)
41551 - collect one field-composite sample and analyze for PCB's (Method 8060)
41552 - collect one field-composite sample and analyze for PCB's (Method 8060)
41553 - collect one field-composite sample and analyze for PCB's (Method 8060)
41554 - collect one field-composite sample and analyze for PCB's (Method 8060)
41555 - collect one field-composite sample and analyze for PCB's (Method 8060)
41556 - collect one field-composite sample and analyze for PCB's (Method 8060)
41557 - collect one field-composite sample and analyze for PCB's (Method 8060)
41558 - collect one field-composite sample and analyze for PCB's (Method 8060)
41559 - collect one field-composite sample and analyze for PCB's (Method 8060)
41560 - collect one field-composite sample and analyze for PCB's (Method 8060)
41561 - collect one field-composite sample and analyze for PCB's (Method 8060)

Note: Samples were collected using a new 2" diameter Loran Tube for each sample.

A summary table of the sampling program has been provided (Table 1) along with drawings showing the site locations (Figures 1 & 2) and sample locations (Figure 3). An analytical report has also been provided by Pittsfield GE Laboratory (Attachment 1).

Miscellaneous Drum Sampling - Soil
 (Originating from Bldg 64W Oil/Water Separator)

101,75.00

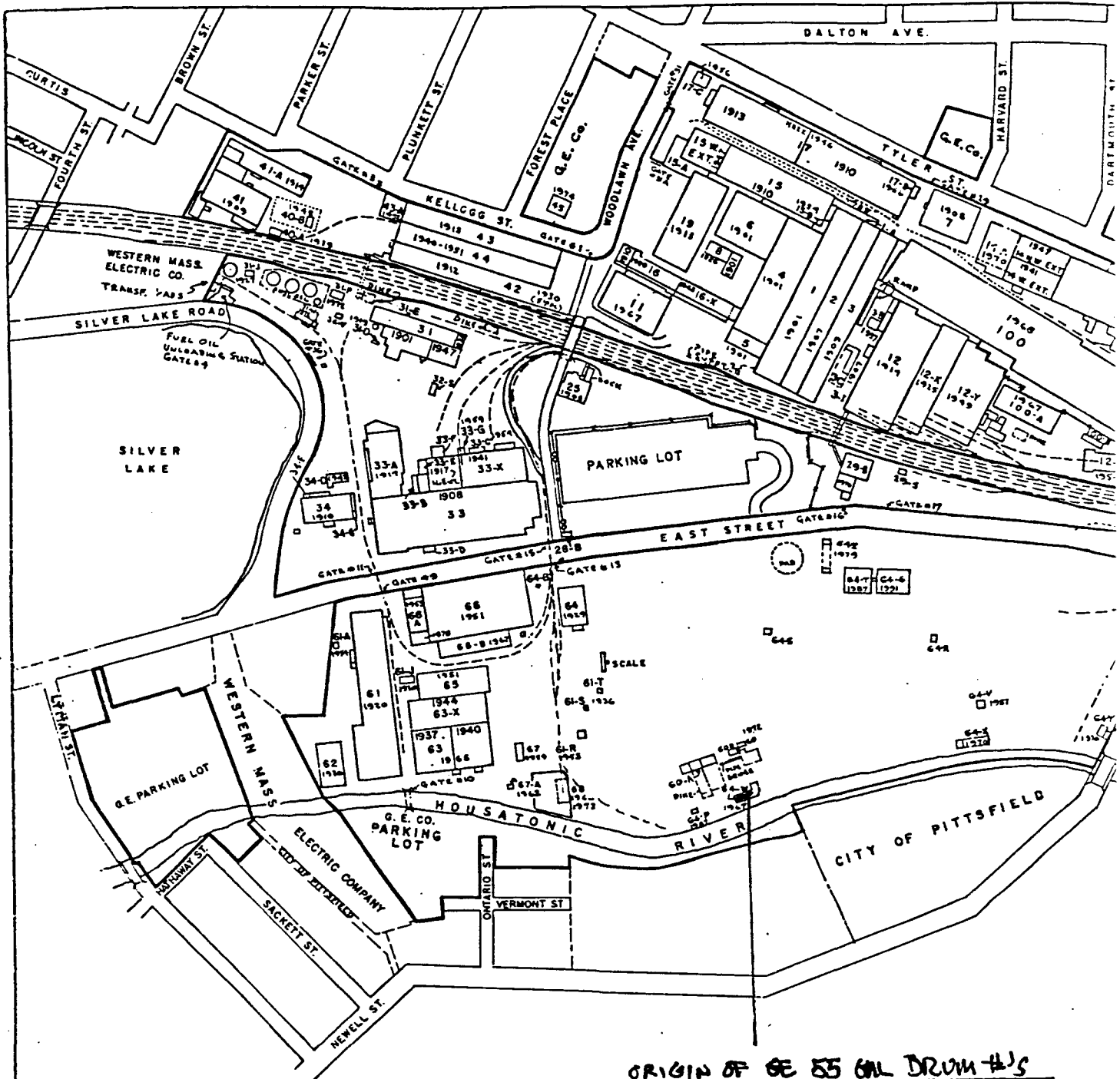
Table 1

PCB SAMPLING RESULTS METHOD 8060

LAB ID	SAMPLE DATE	TOTAL PCB's PPM	DRUM #	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
71-41543-01	12-16-92	18.0	41543	SOIL	FIELD-COMPOSITE	0-30"	3
71-41539-01	12-16-92	33.0	41539	SOIL	FIELD-COMPOSITE	0-30"	3
71-41544-01	12-16-92	24.0	41544	SOIL	FIELD-COMPOSITE	0-31"	3
71-41549-01	12-16-92	89.0	41549	SOIL	FIELD-COMPOSITE	0-30"	3
71-41555-01	12-16-92	74.0	41555	SOIL	FIELD-COMPOSITE	0-31"	3
71-41571-01	12-16-92	1125.0	41571	SOIL	FIELD-COMPOSITE	0-31"	3
71-41570-01	12-16-92	622.0	41570	SOIL	FIELD-COMPOSITE	0-31"	3
71-41573-01	12-16-92	209.0 (*)	41573	SOIL	FIELD-COMPOSITE	0-30"	3
71-41566-01	12-16-92	355.0	41566	SOIL	FIELD-COMPOSITE	0-30"	3
71-41557-01	12-16-92	60.0	41557	SOIL	FIELD-COMPOSITE	0-31"	3
71-41548-01	12-16-92	24.0	41548	SOIL	FIELD-COMPOSITE	0-31"	3
71-41535-01	12-16-92	36.0	41535	SOIL	FIELD-COMPOSITE	0-30"	3
71-41540-01	12-16-92	164.0	41540	SOIL	FIELD-COMPOSITE	0-31"	3
71-41542-01	12-16-92	24.0	41542	SOIL	FIELD-COMPOSITE	0-31"	3
71-41546-01	12-16-92	30.0	41546	SOIL	FIELD-COMPOSITE	0-30"	3
71-41556-01	12-16-92	47.0	41556	SOIL	FIELD-COMPOSITE	0-29"	3
71-41552-01	12-16-92	2956.0	41552	SOIL	FIELD-COMPOSITE	0-31"	3
71-41553-01	12-16-92	120.0	41553	SOIL	FIELD-COMPOSITE	0-31"	3
71-41569-01	12-16-92	89.0	41569	SOIL	FIELD-COMPOSITE	0-31"	3
71-41567-01	12-16-92	633.0	41567	SOIL	FIELD-COMPOSITE	0-30"	3
71-41559-01	12-16-92	136.0	41559	SOIL	FIELD-COMPOSITE	0-30"	3
71-41545-01	12-16-92	21.0	41545	SOIL	FIELD-COMPOSITE	0-30"	3
71-41554-01	12-16-92	566.0	41554	SOIL	FIELD-COMPOSITE	0-31"	3

(*) - RESULT IS AN AVERAGE OF TWO FULL SAMPLES (SEE SEE LAB REPORT)

FIGURE #2



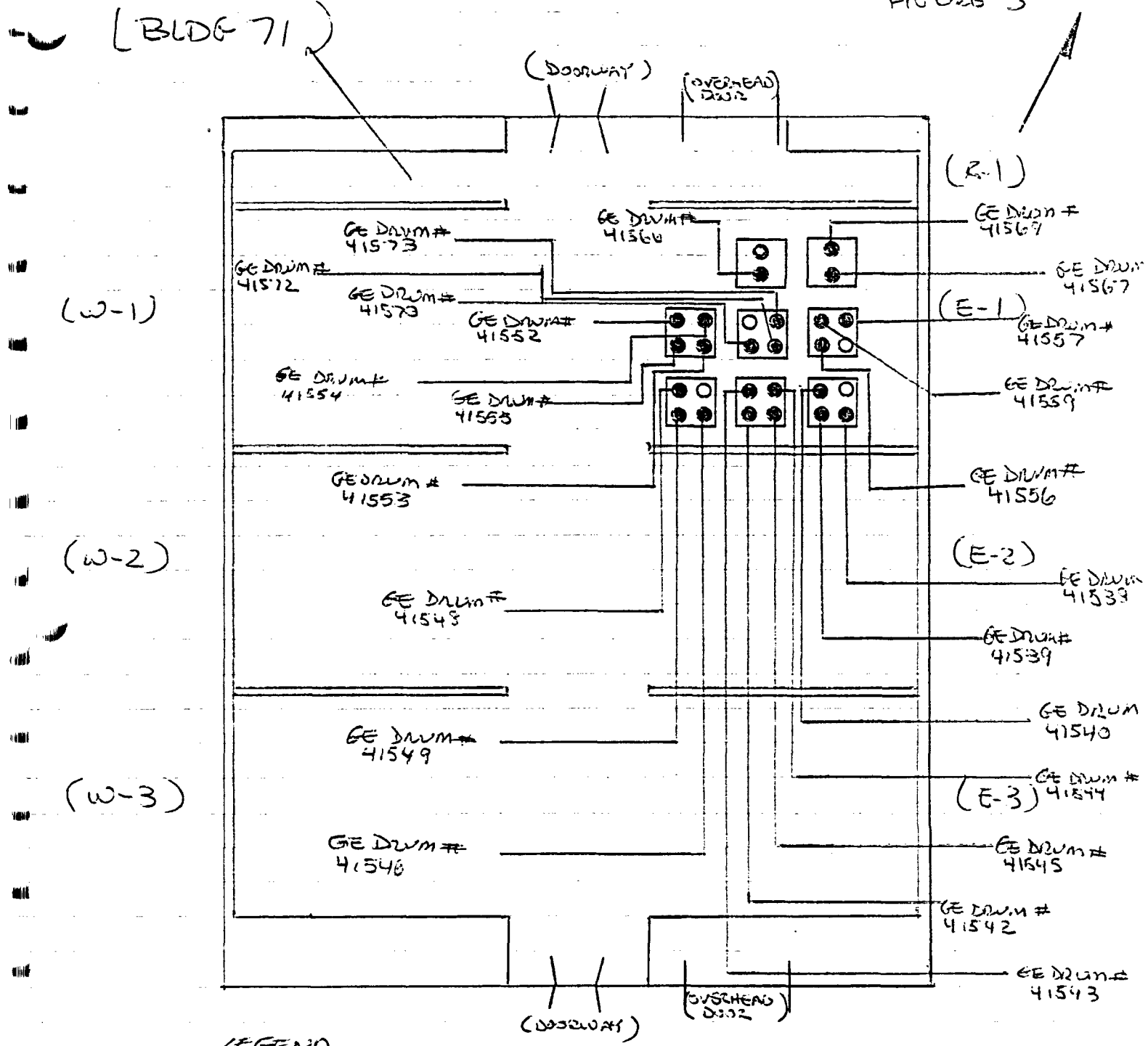
ORIGIN OF GE 55 GAL DRUM #1'S

41543	41570	41540	41564
41539	41573	41542	41567
41544	41560	41546	41559
41549	41557	41556	41545
41555	41548	41552	41554
41572	41538	41553	

MISCELLANEOUS DRUM SAMPLING - SOIL
(ORIGINATING FROM BUS6 64W OIL/WATER SEPARATOR)

(101.75.23)

FIGURE 3



- LEGEND
(NOT TO SCALE)
- - PALLET
 - - 55 GALLON DRUM
 - - 55 GALLON DRUM (SAMPLE LOCATION)
 - (E-1) - BAY NUMBER (SUNKEN BAYS)

ATTACHMENT 1

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Pittsfield, Mass

PCB Analysis

Misc Drum Sampling - B&B Project #101.75.23
2/12/1993

SAMPLE NAME	SAMPLE DATE	DATE REC'D	PCB CONTENT
			PACKED (ug/g)
71-41545-C1	12/16/92	12/16/92	21
71-41569-C1	12/16/92	12/16/92	89
71-41556-C1	12/16/92	12/16/92	47
71-41540-C1	12/16/92	12/16/92	164
71-41554-C1	12/16/92	12/16/92	568
71-41567-C1	12/16/92	12/16/92	633
71-41552-C1	12/16/92	12/16/92	2958
71-41542-C1	12/16/92	12/16/92	24
71-41539-C1	12/16/92	12/16/92	33
71-41538-C1	12/16/92	12/16/92	36
71-41543-C1	12/16/92	12/16/92	18
71-41544-C1	12/16/92	12/16/92	24
71-41546-C1	12/16/92	12/16/92	30
71-41549-C1	12/16/92	12/16/92	89
71-41553-C1	12/16/92	12/16/92	120
71-41559-C1	12/16/92	12/16/92	136
71-41548-C1	12/16/92	12/16/92	24
71-41555-C1	12/16/92	12/16/92	74
71-41557-C1	12/16/92	12/16/92	60
71-41566-C1	12/16/92	12/16/92	353
71-41570-C1	12/16/92	12/16/92	622
71-41572-C1	12/16/92	12/16/92	1125
71-41573-C1	12/16/92	12/16/92	209*

* - Result is average of two full analyses

Report by: JS Nicholson 2/12/93

Distribution: A Cole
WA Fessler
File

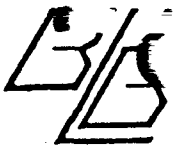


BLASLAND & BOUCK ENGINEERS, P.C.

6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME					NO. OF CONTAINERS	REMARKS				
131,75.23		MISC DRUM SAMPLING - SOIL (BLDG 64W OIL/WATER SEPARATOR)										
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE						
						SOLID SOIL	WIPE	WATER				
71-41543-C1		12/16/92	1130		X	X		1	X	RB'S METHOD 6050 (1) PINT GLASS JARS		
71-41539-C1		12/16/92	1140		X	X		1	X			
71-41544-C1		12/16/92	1150		X	X		1	X			
71-41549-C1		12/14/92	1200		X	X		1	X			
71-41555-C1		12/16/92	1210		X	X		1	X			
71-41572-C1		12/16/92	1220		X	X		1	X			
71-41570-C1		12/16/92	1230		X	X		1	X			
71-41573-C1		12/16/92	1240		X	X		1	X			
71-41566-C1		12/16/92	1250		X	X		1	X			
71-41557-C1		12/16/92	1300		X	X		1	X			
71-41548-C1		12/16/92	1310		X	X		1	X			
71-41538-C1		12/16/92	1320		X	X		1	X			
71-41540-C1		12/16/92	1330		X	X		1	X			
71-41542-C1		12/16/92	1340		X	X		1	X			
71-41546-C1		12/16/92	1350		X	X		1	X			
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
<i>[Signature]</i>		12/16/92 1130 to 1350		<i>[Signature]</i>			<i>[Signature]</i>		12/16/92 1515		12/16/92 3:15 pm	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS			
									SENT TO PITTSFIELD GE LABS			



BLASLAND & BOUCK ENGINEERS, P.C.

6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS				
101.75.23		INDIC DIRM SAMPLING - SOIL (BLDG 6410 OIL/WATER SEPARATOR)									
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB			SAMPLE TYPE			
					SOLID (SOIL)	WIPE	WATER				
71-41556-C1		12/14/92	1400		X	X		1	X	FCB'S METHOD 8060	
71-41552-C1		12/16/92	1410		X	X		1	X		* SAMPLED PER AMEG CASE *
71-41553-C1		12/16/92	1420		X	X		1	X		
71-41569-C1		12/16/92	1430		X	X		1	X		
71-41567-C1		12/16/92	1440		X	X		1	X		(1) PINT GLASS JARS
71-41559-C1		12/14/92	1450		X	X		1	X		
71-41545-C1		12/14/92	1500		X	X		1	X		
71-41554-C1		12/16/92	1510		X	X		1	X		
SAMPLED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			
<i>[Signature]</i>		12/16/92 1400 1510	<i>[Signature]</i>		<i>[Signature]</i>		12/16/92 1515	<i>[Signature]</i> 12/16/92 3:15 PM			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME	REMARKS					
						SENT TO PITTSFIELD GE LAB					

PRELIMINARY

SLASLAND & BOUCK ENGINEERS, P.C.
(REQUEST FOR SAMPLING)

TO: FILES

DATE: 6-5-92

FROM: BRUCE EULIAN

FILE NO: 101.75.01

RE: 64W/64Z Oil/Water Separator Sediment Sampling

INITIATOR: Ross Clark (GE)

DATE: 7-2-92

BLDG. LOCATION: BLDGS 64W/64Z

CONTACT PERSON: Ross Clark (GE)

EXT: 2091

ITEM DESCRIPTION:

1.) Sediment

PURPOSE: To collect sediment samples at the oil/water separators at BLDG 64W and BLDG 64Z, for GE to determine the proper disposal method.

NOTES: The following sampling program was implemented at the request of Ross Clark (GE).

1.) Nine discrete-grab samples of sediment located in the oil/water separator at BLDG 64W is to be collected and analyzed for PCB's Method 8080.

2.) Nine discrete-grab samples of sediment located in the oil/water separator at BLDG 64Z is to be collected and analyzed for PCB's Method 8080.

JJh

DELIVERED TO
GRANT BOWMAN (GE)
7-28-92

PRELIMINARY

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: 64W/64Z Oil/Water Separator Sediment Sampling

Date: 7-7-92
File No: 101.75.01
cc: Grant Bowman (GE)
Ross Clark (GE)

The following is a summary of the sampling program conducted on 7-7-92 at Bldgs 64W/64Z oil/water separators. At the request of Ross Clark (GE) 9 discrete grab samples of sediment were collected at the Bldg 64W oil/water separator and 9 discrete grab samples of sediment were collected at the Bldg 64Z oil/water separator and analyzed for PCB's using Method 3080.

A summary table of the sampling program has been provided (Table 1), as well as drawings showing the site location (Figure 1) and sample locations (Figures 2 & 3). A preliminary analytical report has also been provided by OBC Laboratories (Attachment 1).

64W/64Z SEPARATOR SEDIMENT SAMPLING
101.75.01

PRELIMINARY

TABLE 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
--------	------------------	-----------------	-----------------	-------------	--------------	---------------

Bldg. 64Z Oil/Water Separator

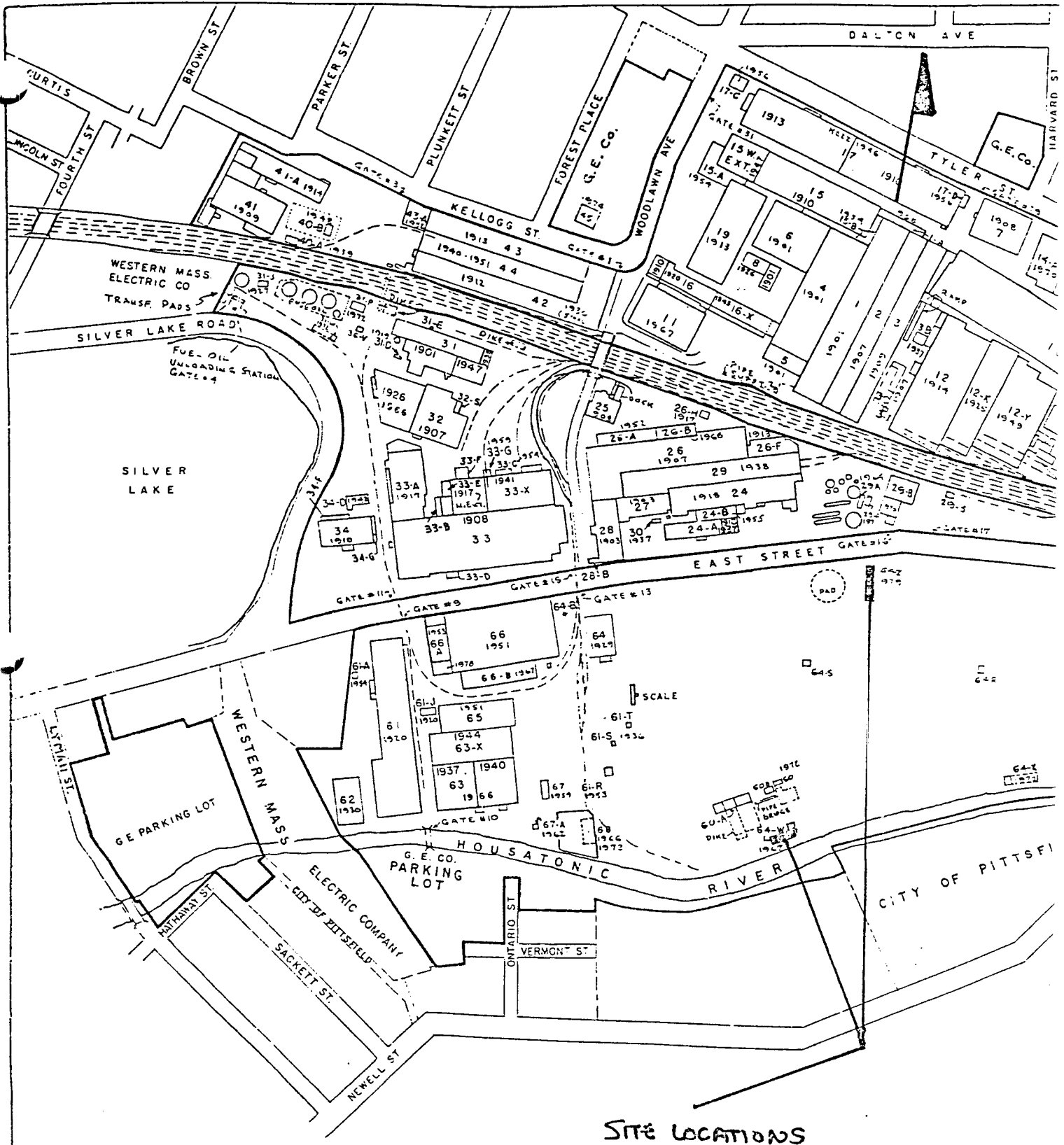
64Z-01	830.0	1	SEDIMENT	DISCRETE-GRAB	0-1.8'	2
64Z-02	280.0	2	SEDIMENT	DISCRETE-GRAB	0-2.2'	2
64Z-03	460.0	3	SEDIMENT	DISCRETE-GRAB	0-1.6'	2
64Z-04	450.0	4	SEDIMENT	DISCRETE-GRAB	0-1.3'	2
64Z-05	160.0	5	SEDIMENT	DISCRETE-GRAB	0-1.1'	2
64Z-06	550.0	6	SEDIMENT	DISCRETE-GRAB	0-1.1'	2
64Z-07	170.0	7	SEDIMENT	DISCRETE-GRAB	0-0.9'	2
64Z-08	590.0	8	SEDIMENT	DISCRETE-GRAB	0-1.0'	2
64Z-09	320.0	9	SEDIMENT	DISCRETE-GRAB	0-0.7'	2

Bldg. 64W Oil/Water Separator

64W-01	1900.0	10	SEDIMENT	DISCRETE-GRAB	0-2.9'	3
64W-02	2400.0	11	SEDIMENT	DISCRETE-GRAB	0-2.1'	3
64W-03	44,000.0	12	SEDIMENT	DISCRETE-GRAB	0-2.4'	3
64W-04	6,200.0	13	SEDIMENT	DISCRETE-GRAB	0-1.3'	3
64W-05	2,850.0	14	SEDIMENT	DISCRETE-GRAB	0-0.9'	3
64W-06	1,800.0	15	SEDIMENT	DISCRETE-GRAB	0-1.4'	3
64W-07	1,600.0	16	SEDIMENT	DISCRETE-GRAB	0-1.0'	3
64W-08	2,000.0	17	SEDIMENT	DISCRETE-GRAB	0-1.5'	3
64W-09	150.0	18	SEDIMENT	DISCRETE-GRAB	0-1.1'	3

NOTE: THE SAMPLE DEPTH REPRESENTS THE DEPTH OF SEDIMENT WHERE THE SAMPLE WAS COLLECTED AND SHOULD NOT BE USED AS A MEASUREMENT TO CALCULATE TOTAL VOLUME OF SEDIMENT IN GRID AREA.

FIGURE # 1



BUDG 64W/64Z ON WATER SEPARATOR SEDIMENT SAMPLING
 101.75.01

FIGURE # 2

BLDG 64E OIL/WATER SEPARATOR

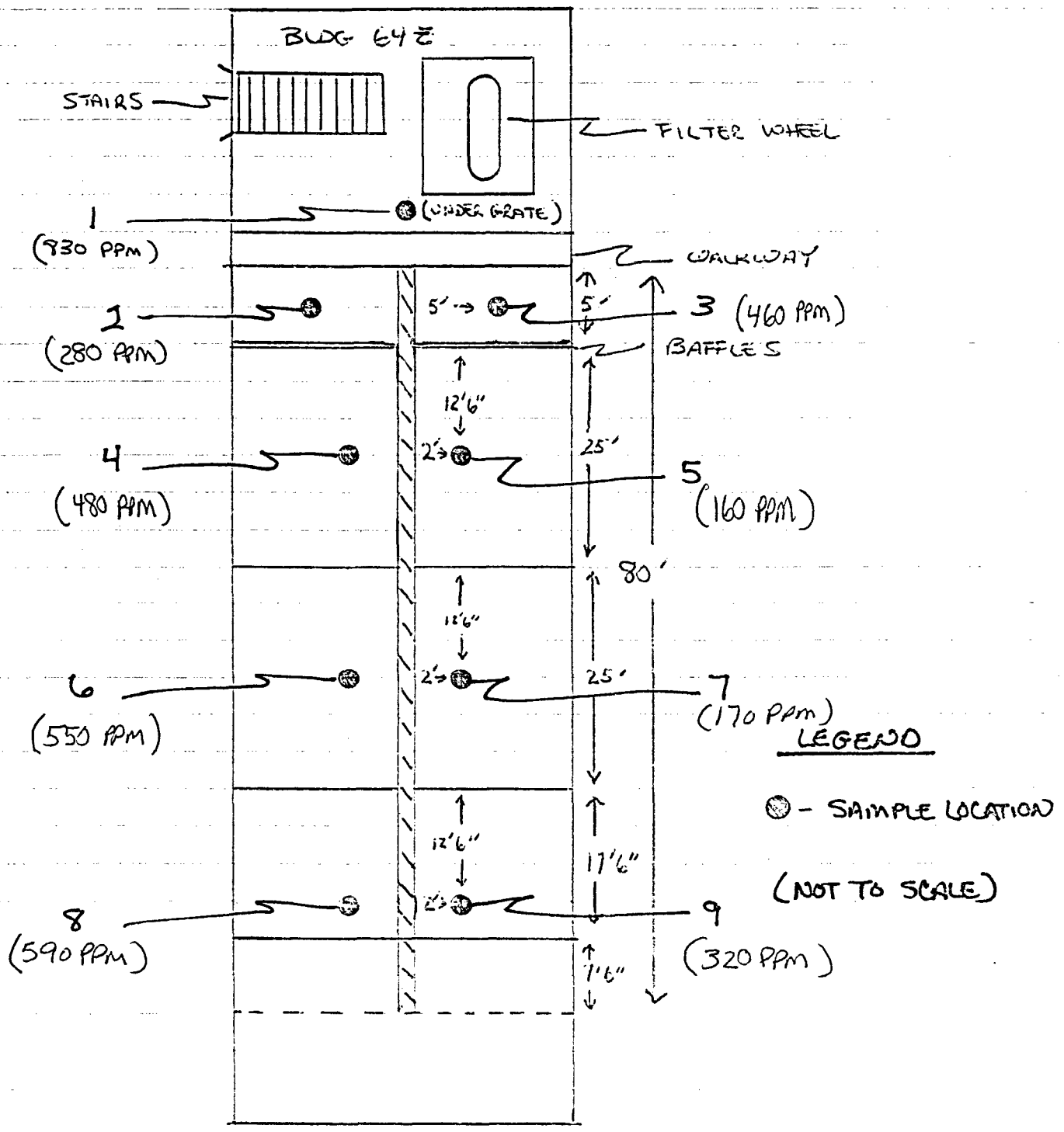
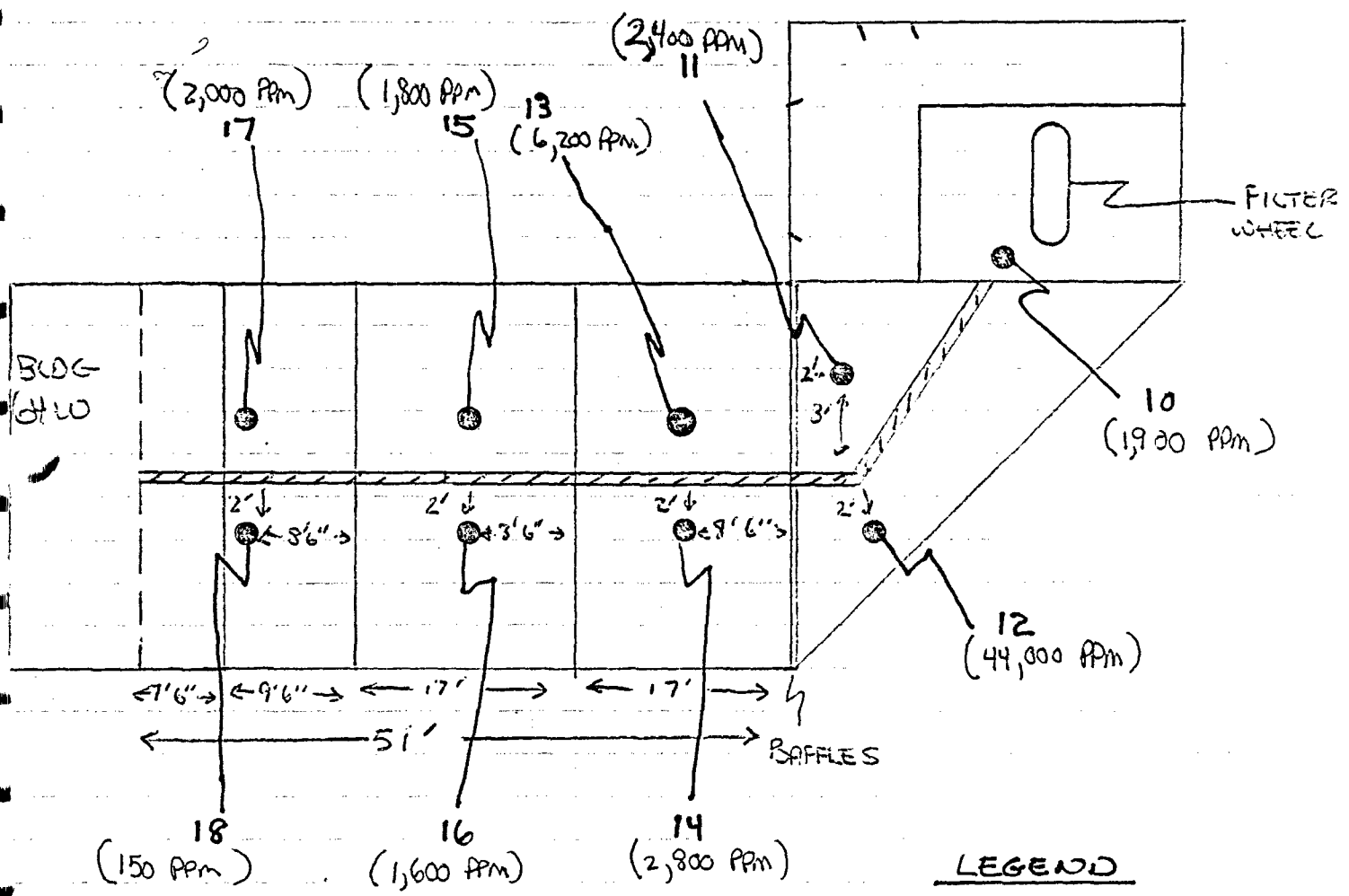


FIGURE # 3

BUDG 64 W OIL/WATER SEPARATOR



LEGEND

● - SAMPLE LOCATION

(NOT TO SCALE)

ATTACHMENT 1



3967
PRELIMINARY
 JUL 10 1992

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520
 DESCRIPTION G.E., Pittsfield Job No. 101.75.01
64W/64Z Separator Sediment Sampling
 Date Analyzed 7/8 → 7/9/92 DATE COLLECTED See Below DATE RECEIVED 7/7/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
64W-C1	7/8/92	7/7/92	1,406	73	1,900	Sediment	A
-C2			1,758	73	2,400		
-C3			23,717	54	44,000		
-C4			3,365	54	6,200		
-C5			1,596	56	2,800		
-C6			704	39	1,900		
-C7			682	42	1,600		
-C8			671	34	2,000		
-C9			50	34	150		
64Z-C1			663	80	830		
-C2			177	64	280		
-C3			220	48	460		
-C4			197	41	480		
-C5			64	41	160		
-C6			155	28	550		

A) Reagent Blank 1:

Reference Sample 1:

Matrix Spike 64W-C3:

Matrix Spike Duplicate:

Precision:

41000 VS 32000 = 25% RPD

< 1
 3.9/3.3 = 118%

DL

DL

Comments:

Certification No.:

DL = diluted out of solution
 RPD calculated using native arachlor present
 in sample 64W-C3 (1260/1254)

Units: mg/kg

Authorized: _____

Date: _____



39168
PRELIMINARY
 JUL 10 1992

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520
 DESCRIPTION G.E., Pittsfield Job No. 101-75-01
64W/64Z Separator Sediment Sampling
 Date Analyzed 7/8 → 7/9/92 DATE COLLECTED See Below DATE RECEIVED 7/7/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
64Z-C7	7/8/92	7/7/92	61	36	170	sediment ↓	A ↓
↓ -C8	↓	↓	83	14	590		
↓ -C9			51	16	320		
A) Reagent Blank 1:					< 1		
Reference Sample 1:							
Matrix Spike 64W-C3:					3.9/3.3 =	118%	
Matrix Spike Duplicate:					DL		
Precision:					DL		
					41000 vs 32000 =	25% RPD	

Comments: DL = diluted out of solution
 RPD calculated using native Arochlor present in sample 64W-C3 (1260/1254)

Certification No.:
 Units: mg/Kg = ppm



BLASLAND & BOUCK ENGINEERS, P.C.

6723 Towpath Road, Box 66
 Syracuse, New York 13214-0066 (315) 446-9120
 FAX: (315) 449-0017

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	REMARKS	
LAB ID		CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE				
							SOLID	MPE			WATER
01.75.01		6410/647 SEAWATER, 300' DEPTH, SANDY HARBOR							20'S METERS 80'S		
6410-01			11/7/92	1430		X	X			1	X
6410-02				1440		X	X			1	X
6410-03				1450		X	X			1	X
6410-04				1500		X	X			1	X
6410-05				1510		X	X			1	X
6410-06				1520		X	X			1	X
6410-07				1530		X	X			1	X
6410-08				1540		X	X			1	X
6410-09				1550		X	X			1	X
647-01				1250		X	X			1	X
647-02				1300		X	X			1	X
647-03				1310		X	X			1	X
647-04				1320		X	X			1	X
647-05				1330		X	X			1	X
647-06			11/7/92	1340		X	X			1	X
SAMPLED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 11/7/92 1430	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 11/7/92 1625	RECEIVED BY: (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 11/7/92 1425	REMARKS SENT TO OBG RUSPRED					

APPENDIX J, SECTION B-5

TABLE 7

EAST STREET AREA 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

SUBSURFACE PCB CONCENTRATIONS
WASTEWATER TREATMENT FACILITY (PPM)

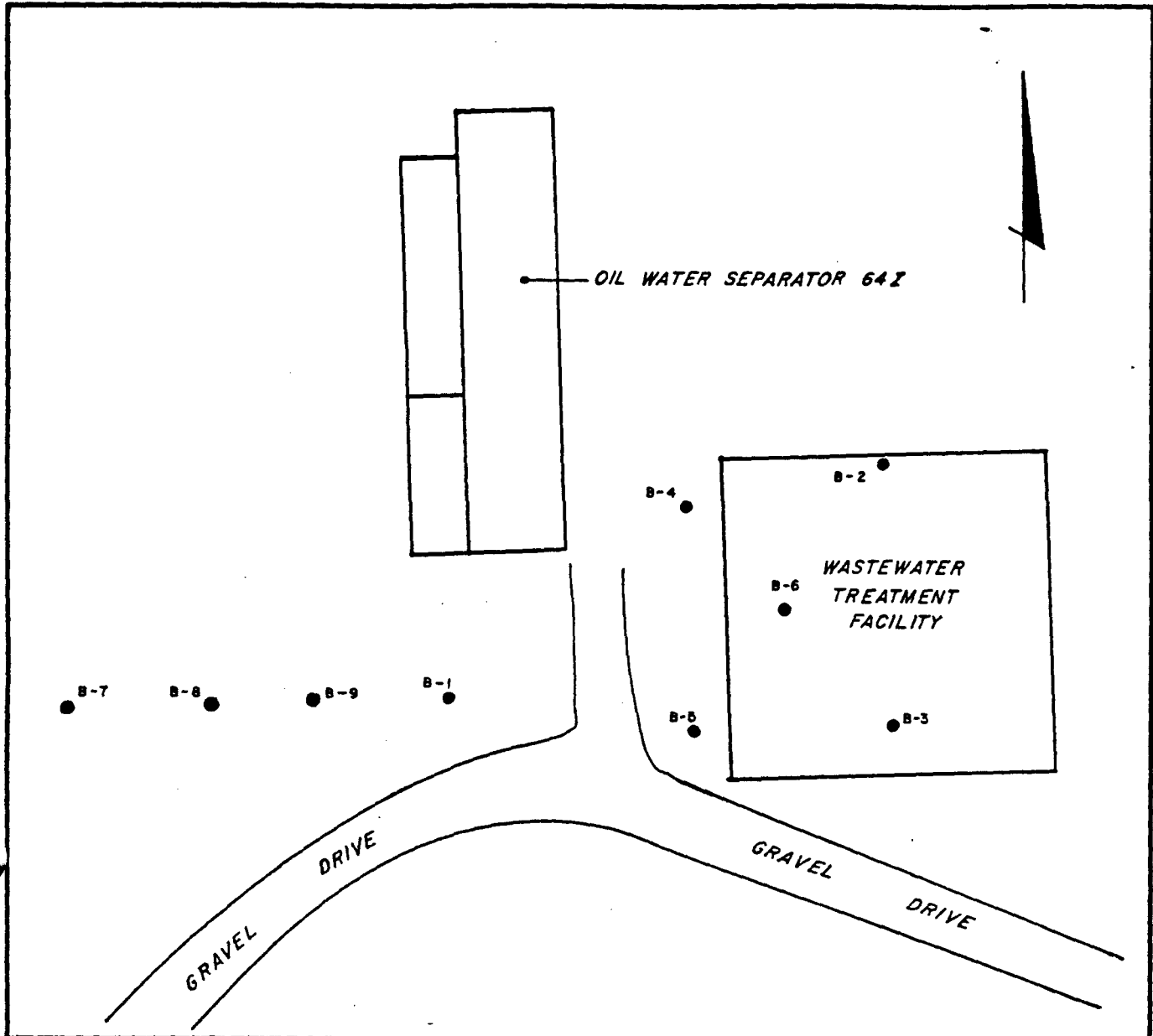
<u>Depth Below Grade (ft.)</u>	<u>Boring Number</u>				
	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>	<u>B-4</u>	<u>B-5</u>
0-2		15	14	3	2
2-4	10/4	<1	14	7	2
4-6	12	<1	2	<1	<1
6-8	7	<1	1	<1	<1
8-10	11	<1	<1	<1	1
10-12	20	<1	46	<1	3
12-14	69	<1	53	45	38
14-16	58	NR	NR	54	52
16-18	188	183	139	114	132
18-20	231	247	218	230	486

MISCELLANEOUS SAMPLES

<u>Description</u>	<u>PCBs (ppm)</u>
Concrete - Former Tank Foundation	<1
Soil - Unsuitable Foundation Material	<50
Concrete Pavement - Building 64	25
Asphalt Pavement - Building 66 Trench and East Street Parking Lots	11
Soil - Electrical Trench (East)	1
Soil - Electrical Trench (West)	2,485
Soil - Building 66 Trench	2

Note:

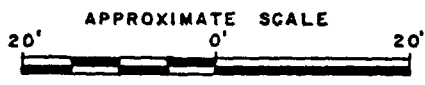
NR = No sample recovery



LEGEND
 ● SOIL BORING

GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
 MCP PHASE II
 EAST STREET AREA 2

LOCATION OF
 WASTEWATER
 TREATMENT FACILITY
 BORINGS



APPENDIX J, SECTION B-6

September 25, 1990

Ms. Jackie DeSantis
GE Company
100 Woodlawn Avenue - Bldg 11-250
Pittsfield, MA 01201

Re: Results of Soils Boring Program for Proposed Area 2 Groundwater Treatment Facility, GE Company, Pittsfield, Massachusetts (Project No. AY03601)

Dear Jackie:

Enclosed are the soil boring logs, geotechnical information, site map, photionization detector results, and analytical results collected during the soil boring program for the proposed Area 2 Groundwater Treatment Facility (GWTF).

During the period August 28-30, 1990, ten soil borings were drilled, at the locations shown on Figure 1, to characterize the subsurface soil conditions and structural properties, and to identify the presence (if any) of polychlorinated biphenyls (PCBs) or other hazardous constituents present in the soils that may be excavated as part of the GWTF construction.

The boreholes were drilled by Clean Berkshires, Inc. of Lanesboro, Massachusetts using the hollow-stem auger method. Continuous split-spoon samples were collected in two-foot increments (ASTM D1586) to a depth of 20 feet. Soil sampling logs are presented in Appendix A. All samples were screened in the field for volatile organic compounds (VOCs) using an OVM™ photionization detector, the results of this screening are presented in Table 1. The split-spoon sampler was scrubbed with laboratory-grade cleaning solution and rinsed with potable water between each sampling episode to prevent any cross contamination. All downhole equipment was steam cleaned between boring locations and prior to leaving the site. Upon completion, the boreholes were grouted to land surface with a cement/bentonite mixture. All drill cuttings were placed in 55-gallon drums and labeled as PCB waste. One "grab" sample was collected from the drummed material to determine the appropriate disposal procedures. The "grab" sample was submitted to the laboratory and analyzed for the same parameters as the soil boring samples. These parameters are discussed below.

Representative soil samples from the 0 to 2-foot, 2 to 4-foot, and 4 to 6-foot intervals at each boring location were shipped overnight to IT Analytical, Inc., Knoxville, Tennessee. The laboratory was instructed to composite equal volumes of these samples and analyze one 0 to 6-foot sample for each boring. Boring locations GW-1 and GW-5 encountered concrete pads within the 2 to 4-foot zone, these increments were not sampled.

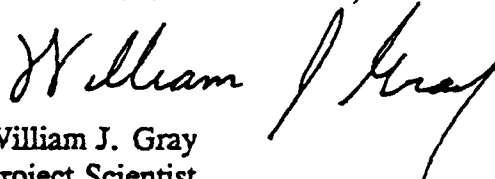
↑ also GW-9

The composited samples (0 to 6-feet), and grab sample, were analyzed for PCBs (Method 8080), VOCs (Method 8240), semi-VOCs (Method 8270), RCRA metals (Method 6010, and mercury Method 7040), phenols (Method 8040), and cyanide (Method 9010). The remaining samples (6 to 20-feet) were retained for possible future analyses. Results of the PCBs analyses are presented in Table 2. All other laboratory results are in Appendix B.

If you have any questions concerning the sampling program, do not hesitate to call us.

Sincerely,

GERAGHTY & MILLER, INC.



William J. Gray
Project Scientist



Dennis Colton
Senior Project Advisor

DC:WJG/smh

TABLE 2. RESULTS OF PCBs ANALYSES^{a)} PERFORMED ON SOIL SAMPLES COLLECTED ON AUGUST 28-30, 1990, AT THE PROPOSED AREA 2 GROUNDWATER TREATMENT FACILITY, GE COMPANY, PITTSFIELD, MASSACHUSETTS.

<u>SAMPLE DESIGNATION</u>	<u>DEPTH (FEET)</u>	<u>AROCLOR 1016^{b)} 1232 & 1242</u>	<u>AROCLOR 1254</u>	<u>AROCLOR 1260</u>	<u>TOTAL AROCLORS</u>
GW-1	0-6	ND ^{c)}	0.26	0.64	0.90
GW-2	0-6	ND	0.14	0.35	0.49
GW-3	0-6	ND	ND	ND	ND
GW-4	0-6	ND	ND	0.40*	0.40
GW-5	0-6	ND	0.19	2.2	2.4
GW-6	0-6	ND	ND	2.0*	2.0
GW-7	0-6	ND	ND	0.74	0.74
GW-8	0-6	ND	ND	0.74*	0.74
GW-9	0-6	ND	ND	0.15*	0.15
GW-10	0-6	ND	0.40*	2.4*	2.8
Grab Sample	NA	ND	ND	150*	150

^{a)} Analyzed per EPA Method 8080

^{b)} PCB Concentrations reported in mg/kg (ppm)

^{c)} Compound was analyzed for but not detected

* Alteration of standard Aroclor pattern

NA Not Applicable

GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
 GROUND-WATER TREATMENT FACILITY

RESULTS OF SOIL SAMPLING AND ANALYSIS

<u>Constituent</u>	<u>Soil Concentration for 0 to 6 Feet Depth (ppm)</u>									
	<u>GW-1</u>	<u>GW-2</u>	<u>GW-3</u>	<u>GW-4</u>	<u>GW-5</u>	<u>GW-6</u>	<u>GW-7</u>	<u>GW-8</u>	<u>GW-9</u>	<u>GW-10</u>
1. PCBs	0.9	0.49	--	0.4	2.4	2.0	0.74	0.74	0.15	2.8
2. Volatile Organics										
Benzene	--	--	--	130	--	--	--	--	--	--
Ethyl Benzene	--	--	--	240	--	--	--	--	--	--
Methylene Chloride	--	6	7	--	5	8	11	9	13	--
Toluene	--	--	--	400	--	--	--	--	--	--
3. Base Neutral/Acid Extractables										
Acenaphthene	--	--	--	--	--	--	--	18	--	--
Acenaphthylene	--	--	--	--	--	--	--	45	--	--
Anthracene	--	--	--	--	--	--	--	28	--	--
Benzo(a) Anthracene	--	--	--	140	--	--	--	110	--	--
Benzo(b) Fluoranthene	--	--	--	97	--	--	--	72	--	--
Benzo(k) Fluoranthene	--	--	--	140	--	13	--	88	--	--
Benzo(a) Pyrene	--	--	--	150	--	--	--	52	--	--
Benzo(g,h,i) Perylene	--	--	--	32	--	--	--	20	--	--
Chrysene	--	--	13	150	--	--	--	120	--	--
Dibenz (a,h) Anthracene	--	--	--	14	--	--	--	--	--	--
Fluoranthene	--	--	--	280	--	--	--	240	--	--
Fluorene	--	--	--	85	--	--	--	90	--	--
Indeno (1,2,3-cd) Pyrene	--	--	--	240	--	--	--	19	--	--
Napthalene	--	--	--	2,300	--	--	--	2,000	--	--
Phenanthrene	--	--	--	890	--	--	--	590	--	--
Pyrene	--	--	--	520	--	--	--	350	--	--

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GROUND-WATER TREATMENT FACILITY

RESULTS OF SOIL SAMPLING AND ANALYSIS
(Cont'd)

<u>Constituent</u>	<u>Soil Concentration (ppm) for 0 to 6 Feet Depth</u>									
	<u>GW-1</u>	<u>GW-2</u>	<u>GW-3</u>	<u>GW-4</u>	<u>GW-5</u>	<u>GW-6</u>	<u>GW-7</u>	<u>GW-8</u>	<u>GW-9</u>	<u>GW-10</u>
4. Metals										
Arsenic	--	4	15	8	--	--	--	--	--	--
Barium	31.3	26.7	19.4	20.8	19.7	17.3	14.9	14.9	22.5	7.6
Cadmium	--	--	--	--	--	--	--	--	--	--
Chromium	10	19	15	9	10	11	4	6	6	7
Lead	24	41	46	39	22	35	12	102	13	10
Selenium	--	--	--	--	--	--	--	--	--	--
Silver	--	11.0	0.8	0.9	1.0	0.9	--	--	--	--
Mercury	--	--	--	0.2	--	--	--	0.2	--	--
5. Cyanide	--	0.99	6.1	0.92	--	5.1	0.98	608	1.6	21
6. Phenols	1.4	1.5	1.6	4	0.99	1.7	2.2	2	1.1	1.3

Notes:

1. -- = not detected.
2. See attached figure for sample locations.
3. Sampling performed by Geraghty & Miller. Analyses by IT Analytical.

DATE:

PRJCT. NO.: AY03601

FILE NO.:

CAD FILE: NON-CAD



COMPILER:

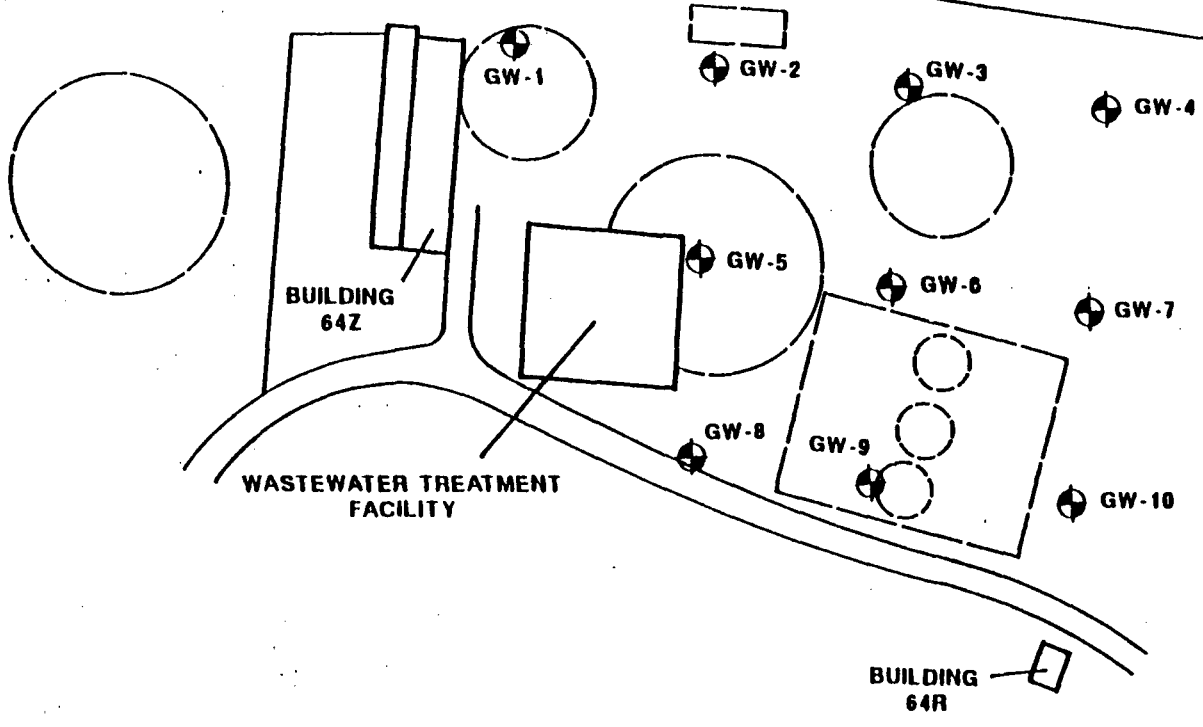
MGR.: W. GRAY

DRAFTER: R. FAULK



EAST STREET

- EXPLANATION**
- GW-1  SOIL BORING LOCATION
 -  SUBSURFACE TANK PADS



SCALE SHOWN

GERAGHTY & MILLER, INC.
Environmental Services

SOIL BORING LOCATIONS, AUGUST 28-30, 1990
EAST STREET AREA 2
GROUNDWATER TREATMENT FACILITY
G.E. COMPANY, PITTSFIELD, MASSACHUSETTS

FIGURE

1

January 17, 1991

Ms. Jacqueline DeSantis
GE Company
100 Woodlawn Ave. Bldg. 11-250
Pittsfield, MA 01201

Re: Results of the Area 2 Ground Water Treatment Facility Pre-excavation
Supplemental Soil Sampling Program (Project No. AY03602)

Dear Ms. DeSantis:

Enclosed are the soil boring logs, geotechnical information, site maps, photoionization detector results and analytical results collected during the supplemental soil boring program for the proposed Area 2 Ground Water Treatment Facility (GWTF).

During the period December 5 through 10, 1990, 28 soil borings were drilled, at the locations shown on Figure 1, to characterize the subsurface soil conditions and structural properties of soils that may be excavated as part of the GWTF construction. The boreholes were drilled by Clean Berkshires, Inc. of Lanesboro, Massachusetts using the hollow-stem auger method. Continuous split-spoon samples were collected in two-foot increments (ASTM D1586) to the total depth of the boring. Soil sample logs are presented in Appendix A. Soil samples from locations BF-1 to BF-5, SS-2, SS-3, E-1, E-3 and WM-2 were submitted for PCBs analysis (Method 8080). The results of these analyses are presented in Table 1. Soil samples from locations BF-6, CA-1, RS-1 to RS-7, D-1, D-2, D-3, E-4, E-5, E-6, SS-1 and WM-1 were submitted for full Area 2 protocol. Full Area 2 protocol consists of analyses for PCBs (Method 8080), semivolatiles (Method 8270), phenols (Method 8040), cyanide (Method 9010) and RCRA metals (Method 6010 and 7040). The results of these analyses are presented in Tables 2 and 3.

All samples were field screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). The results of this screening are presented in Table 4. If any boring contained soil yielding a PID reading of 10 units or greater, soil from each increment was composited into one sample per boring and submitted to the laboratory for VOC analysis (Method 8240). The results of these analyses are presented in Table 5. A complete sample collection report describing collection dates and analyses performed is presented in Table 6. All soil samples analyzed were submitted to CT Male Analytical Laboratories, LTD. of Latham, New York. Laboratory data sheets are presented Appendix B.

All drill cuttings were drummed and labeled according to GE specified protocols. A grab sample (3602-Drum) from the drummed soil was submitted for PCBs analysis. Field equipment was decontaminated according to the protocol described in the September 1990 Sampling and Analysis Plan.

Since organic and inorganic constituents were to be analyzed, the decontamination sequence consisted of:

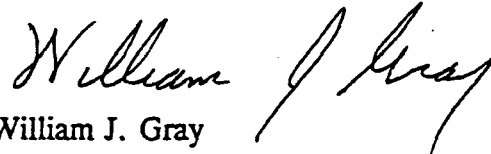
1. Non-phosphate detergent and water wash;
2. Potable water rinse;
3. Hexane rinse;
4. Hydrochloric acid rinse;
5. Distilled water rinse;
6. Type II reagent-grade water rinse.

Four boreholes, NX-1 to NX-4 were drilled to determine the depth and thickness of subsurface concrete structures, the findings of these borings are presented in Table 7. The concrete at NX-2 was cored using a 3-inch diameter (NX) core barrel to retrieve a core sample for possible future analysis. Sample core logs are presented in Appendix A. All boreholes were grouted to land surface upon completion.

If you have any questions concerning the Area 2 GWTF soil boring program, please do not hesitate to contact us.

Sincerely,

GERAGHTY & MILLER, INC.



William J. Gray
Senior Scientist



Dennis Colton
Sr. Project Advisor

WJG:DC/smh

Enclosures

cc: James Nuss, Blasland & Bouck

Table 1. Results of PCBs Analyses^{a)} Performed on Soil Samples Collected at GE Company, Area 2, Groundwater Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts

Sample Designation	Depth (feet)	Aroclor			Total Aroclors ^{b)}
		1016,1221,1232 1242 and/or 1248 ^{b)}	Aroclor 1254 ^{b)}	Aroclor 1260 ^{b)}	
RS-1	(0-6)	ND	2.8	5.5	8.3
RS-2	(0-6)	ND	2.6	3.8	6.4
RS-3	(0-6)	ND	ND	ND	ND
RS-4	(0-6)	ND	2.4	0.59	2.99
RS-5	(0-6)	ND	2.5	8.0	10.5
RS-6	(0-6)	ND	ND	0.6	0.6
RS-7	(0-9)	ND	ND	0.11	0.11
D-1	(0-6)	ND	ND	0.82	0.82
D-2	(0-6)	ND	0.07	0.5	0.57
D-3	(0-2),(4-6)	ND	ND	0.68	0.68
WM-1	(0-6)	ND	ND	ND	ND
WM-2	(0-6)	ND	ND	0.39	0.39
SS-1	(0-10)	ND	0.019	0.014	0.033
SS-2	(0-6)	ND	ND	0.21	0.21
SS-3	(0-6)	ND	ND	0.2	0.2
E-1	(0-6)	ND	ND	1.0	1.0
E-2	(0-3)	ND	ND	1.4	1.4
E-3	(0-2)	ND	ND	ND	ND
E-4	(0-6)	ND	ND	ND	ND
E-5	(0-3)	ND	0.053	0.025	0.078
E-6	(0-3)	ND	ND	ND	ND

^{a)} Analyzed per EPA Method 8080.

^{b)} Concentrations reported in mg/kg (ppm). Detection limits varied between samples and analytes due to laboratory dilution factors. Factors specific detection limits see laboratory data sheets.

ND Compound was analyzed for but not detected.

Table 1. Results of PCBs Analyses^{a)} Performed on Soil Samples Collected at GE Company, Area 2, Groundwater Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts

Sample Designation	Depth (feet)	Aroclor			Total Aroclors ^{b)}
		1016,1221,1232 1242 and/or 1248 ^{b)}	Aroclor 1254 ^{b)}	Aroclor 1260 ^{b)}	
BF-1	(0-0.5)	ND	ND	0.22	0.22
BF-2	(0-0.58)	ND	ND	0.026	0.026
BF-3	(0-0.58)	ND	ND	0.5	0.5
BF-4	(0-0.5)	ND	0.55	1.2	1.75
BF-5	(0-0.5)	ND	0.44	0.5	0.94
BF-6	(0-3)	ND	ND	0.48	0.48
CA-1	(0-5)	ND	ND	ND	ND
3602-DRUM	(Composite)	ND	ND	0.26	0.26

^{a)} Analyzed per EPA Method 8080.

^{b)} Concentrations reported in mg/kg (ppm). Detection limits varied between samples and analytes due to laboratory dilution factors. Factors specific detection limits see laboratory data sheets.

Table 5. Summary of Volatile Organic Compound^{a)} (VOC) Results for Soil Samples Collected at GE Company, Area 2 Groundwater Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts

Parameter	<u>Sample Designation and Depth (feet)</u>							
	BF-1 (0-0.5)	BF-2 (0-0.58)	BF-3 (0-6)	E-1 (0-0.58)	E-4 (0-6)	E-5 (0-3)	CA-1 (0-5)	SS-1 (0-10)
Methylene Chloride	ND	ND	0.013	0.014	ND	0.011	ND	ND
Toluene	ND	ND	ND	ND	ND	0.028	ND	ND

^{a)} Analyzed per EPA Method 8240.

^{b)} Concentrations reported in mg/kg (ppm).

ND=Parameter was analyzed for but not detected above the quantitation limit.

Table 2. Summary of Semivolatile Compounds^{a)} from Soil Samples Collected at GE Company, Area 2 Ground Water Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts

Parameter ^{b)}	Sample ID - Depth (ft)			
	RS-1 (0-6)	RS-2 (0-6)	RS-3 (0-6)	RS-4 (0-6)
Acenaphthylene	ND	ND	ND	ND
Naphthalene	ND	1,300	960	ND
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND
Phenanthrene	1,300	4,200	ND	ND
Fluoranthrene	2,100	5,600	ND	ND
Anthracene	ND	820	ND	ND
Pyrene	3,500	7,400	ND	ND
Fluorene	ND	ND	ND	ND
Benzo(A)anthracene	3,600	5,600	5,800	ND
Chrysene	2,100	3,800	1,900	ND
Bis(2-ethyl-hexyl)phthalate	ND	ND	ND	ND
Benzo(B)fluoranthene	2,400	4,600	1,800	ND
Benzo(K)fluoranthene	1,700	2,400	1,200	ND
Benzo(A)pyrene	2,800	ND	3,400	ND
Ideno-(1,2,3)-(CD)-pyrene	1,200	1,000	ND	ND
Dibenzo-(A,H)-anthracene	ND	ND	ND	ND
Benzo-(G,H,I)-perlyene	1,800	1,500	1,000	ND
2-Methylnaphthalene	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND

^{a)} Analyzed per EPA Method 8270.

^{b)} Concentrations reported in mcg/kg (ppb).

ND = Parameter was analyzed for but not detected above the quantitation limit.

Table 2. Summary of Semivolatile Compounds^{a)} from Soil Samples Collected at GE Company, Area 2 Ground Water Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts

Parameter ^{b)}	Sample ID - Depth (ft)			
	RS-5 (0-6)	RS-6 (0-6)	RS-7 (0-9)	D-1 (0-6)
Acenaphthylene	ND	ND	ND	2,300
Naphthalene	ND	1,300	960	520,000
Acenaphthene	ND	ND	ND	1,100
2,4-Dinitrotoluene	ND	ND	ND	ND
Phenanthrene	ND	2,500	ND	28,000
Fluoranthrene	1,700	4,000	ND	19,000
Anthracene	ND	ND	ND	6,100
Pyrene	3,600	5,400	ND	19,000
Fluorene	ND	ND	ND	2,900
Benzo(A)anthracene	4,600	5,500	ND	10,000
Chrysene	2,300	2,800	ND	15,000
Bis(2-ethyl-hexyl)phthalate	ND	ND	ND	ND
Benzo(B)fluoranthene	1,900	3,300	ND	16,000
Benzo(K)fluoranthene	ND	2,400	ND	13,000
Benzo(A)pyrene	2,800	3,200	ND	13,000
Ideno-(1,2,3)-(CD)-pyrene	ND	1,300	ND	ND
Dibenzo-(A,H)-anthracene	ND	960	ND	2,300
Benzo-(G,H,I)-perlyene	ND	1,300	ND	5,000
2-Methylnaphthalene	ND	ND	ND	2,000
Dibenzofuran	ND	ND	ND	2,200

^{a)} Analyzed per EPA Method 8270.

^{b)} Concentrations reported in mcg/kg (ppb).

ND = Parameter was analyzed for but not detected above the quantitation limit.

Table 2. Summary of Semivolatile Compounds^{a)} from Soil Samples Collected at GE Company, Area 2 Ground Water Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts

Parameter ^{b)}	Sample ID - Depth (ft)			
	D-2 (0-6)	D-3 (0-6)	WM-1 (0-9)	SS-1 (0-10)
Acenaphthylene	ND	ND	ND	ND
Naphthalene	1,300	1,700	6,000	230,000
Acenaphthene	ND	ND	ND	ND
2,4-Dinitrotoluene	2,100	ND	ND	ND
Phenanthrene	ND	2,300	3,000	ND
Fluoranthrene	3,200	2,600	1,800	ND
Anthracene	ND	ND	ND	ND
Pyrene	3,600	2,400	4,100	ND
Fluorene	ND	ND	ND	ND
Benzo(A)anthracene	5,000	1,300	ND	ND
Chrysene	3,800	4,100	ND	ND
Bis(2-ethyl-hexyl)phthalate	810	ND	ND	ND
Benzo(B)fluoranthene	4,500	2,900	4,500	ND
Benzo(K)fluoranthene	3,100	3,000	3,900	ND
Benzo(A)pyrene	3,800	3,500	8,600	ND
Ideno-(1,2,3)-(CD)-pyrene	1,900	ND	ND	ND
Dibenzo-(A,H)-anthracene	ND	ND	ND	ND
Benzo-(G,H,I)-perlyene	2,000	ND	ND	ND
2-Methylnaphthalene	ND	ND	4,400	21,000
Dibenzofuran	ND	ND	ND	ND

^{a)} Analyzed per EPA Method 8270.

^{b)} Concentrations reported in mcg/kg (ppb).

ND = Parameter was analyzed for but not detected above the quantitation limit.

Table 2. Summary of Semivolatile Compounds^{a)} from Soil Samples Collected at GE Company, Area 2 Ground Water Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts

Parameter ^{b)}	Sample ID - Depth (ft)				
	E-4 (0-6)	E-5 (0-3)	E-6 (0-3)	BF-6 (0-3)	CA-1 (0-5)
Acenaphthylene	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	11,000	ND
Acenaphthene	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	1,000	ND
Fluoranthrene	ND	ND	ND	1,100	1,000
Anthracene	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	840	1,800
Fluorene	ND	ND	ND	ND	ND
Benzo(A)anthracene	ND	2,100	ND	ND	1,600
Chrysene	ND	ND	ND	ND	1,700
Bis(2-ethyl-hexyl)phthalate	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	ND	ND	ND	ND	1,600
Benzo(K)fluoranthene	ND	ND	ND	ND	1,400
Benzo(A)pyrene	ND	ND	ND	ND	1,700
Ideno-(1,2,3)-(CD)-pyrene	ND	ND	ND	ND	820
Dibenzo-(A,H)-anthracene	ND	ND	ND	ND	ND
Benzo-(G,H,I)-perlyene	ND	ND	ND	ND	940
2-Methylnaphthalene	ND	ND	ND	7,600	ND
Dibenzofuran	ND	ND	ND	ND	ND

^{a)} Analyzed per EPA Method 8270.

^{b)} Concentrations reported in mcg/kg (ppb).

ND = Parameter was analyzed for but not detected above the quantitation limit.

Table 3. Summary of Total Phenols, Total Cyanide and Rare Metals from Soil Samples Collected at GE Company Area 2 Groundwater Treatment Facility, December 5-10, 1992, Pittsfield, Massachusetts

Sample Designation and Depth (feet)	Total Phenol ^{a)}	Total Cyanide ^{b)}	Arsenic ^{c)}	Barium ^{d)}	Chromium ^{d)}	Lead ^{d)}	Mercury ^{e)}	Selenium ^{f)}
RS-1 (0-6)	ND	20	ND	42.6	11.1	96.1	0.2	ND
RS-2 (0-6)	ND	8	ND	32.6	8.6	70.4	0.29	ND
RS-3 (0-6)	8	17	ND	45.3	9.5	41.9	ND	ND
RS-4 (0-6)	ND	19	4.1	ND	19.3	66.5	ND	112
RS-5 (0-6)	ND	22	10.5	ND	27.6	52.7	0.14	ND
RS-6 (0-6)	ND	15	ND	32.7	9.6	50.9	11.8	ND
RS-7 (0-9)	ND	0.6	ND	34.8	9.8	16.8	ND	ND
D-1 (0-6)	ND	29	ND	63.0	14.4	93.0	0.10	ND
D-2 (0-6)	ND	4	2.9	110	8.0	62.8	ND	78.7
D-3 (0-6)	ND	2	ND	45.4	11.1	41.8	ND	ND
WM-1 (0-6)	ND	21	ND	29.3	23.7	65.3	ND	ND
SS-1 (0-10)	ND	ND	ND	22.7	10.5	33.9	ND	ND
E-4 (0-6)	ND	ND	ND	15.6	9.7	10.7	ND	ND
E-5 (0-3)	ND	ND	ND	21.3	9.0	24.6	ND	ND
E-6 (0-3)	ND	ND	16.2	29.6	12.1	16.8	ND	ND
BF-6 (0-3)	ND	1	ND	32.0	8.2	20.5	ND	ND
CA-1 (0-5)	ND	26	ND	40.7	15.2	87.4	0.11	ND

* Concentrations reported in mcg/kg (ppb).
^{a)} Total Phenols Analyzed per SW-846 Method 9066.
^{b)} Total Cyanide with Distillation Analyzed per EPA Method 335.2; 335.3.
^{c)} Arsenic analyzed per SW-846 Method 7060.
^{d)} Barium, Chromium and Lead analyzed per EPA Method 6010.
^{e)} Mercury analyzed per EPA Method 1979.245.1.
^{f)} Selenium analyzed per SW-846 Method 7740.
 ND = Parameter was analyzed for but not detected above the quantitation limit.

Table 4. Summary of Photoionization Detector (PID) Results for Soil Samples Collected at GE Company, Area 2 Groundwater Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts.

Sample Location and Depth (feet)	Correlating PID Results ^{a)}
RS-1 (0-2)	0.0
RS-1 (2-4)	0.0
RS-1 (4-6)	0.0
RS-2 (0-2)	0.0
RS-2 (2-4)	0.0
RS-2 (4-6)	0.0
RS-3 (0-2)	0.0
RS-3 (2-4)	0.0
RS-3 (4-6)	0.0
RS-4 (0-2)	0.0
RS-4 (2-4)	0.0
RS-4 (4-6)	0.0
RS-5 (0-2)	0.0
RS-5 (2-4)	0.0
RS-5 (4-6)	0.0
RS-6 (0-2)	0.0
RS-6 (2-4)	0.0
RS-6 (4-6)	2.8
RS-7 (0-2)	0.0
RS-7 (2-4)	0.0
RS-7 (4-6)	0.0
RS-7 (6-8)	1.1
RS-7 (8-9)	0.0

^{a)} These results are qualitative only and do not represent the absolute concentrations of any volatile organic compound in the soil core, whether the compound is natural or man-made.

Table 4. Summary of Photoionization Detector (PID) Results for Soil Samples Collected at GE Company, Area 2 Groundwater Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts.

Sample Location and Depth (feet)	Correlating PID Results ^{a)}
D-1 (0-2)	3.3
D-1 (2-4)	0.0
D-1 (4-6)	7.5
D-2 (0-2)	1.5
D-2 (2-4)	1.1
D-2 (4-6)	0.0
D-3 (0-2)	2.1
D-3 (4-6)	4.8
WM-1 (0-2)	0.0
WM-1 (2-4)	0.0
WM-1 (4-6)	3.0
WM-2 (0-2)	0.0
WM-2 (2-4)	0.0
WM-2 (4-6)	0.0
SS-1 (0-2)	0.0
SS-1 (2-4)	0.0
SS-1 (4-6)	83.5
SS-1 (6-8)	102.4
SS-1 (8-10)	190.5
SS-2 (0-2)	0.2
SS-2 (2-4)	0.2
SS-2 (4-6)	0.2

^{a)} These results are qualitative only and do not represent the absolute concentrations of any volatile organic compound in the soil core, whether the compound is natural or man-made.

Table 4. Summary of Photoionization Detector (PID) Results for Soil Samples Collected at GE Company, Area 2 Groundwater Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts.

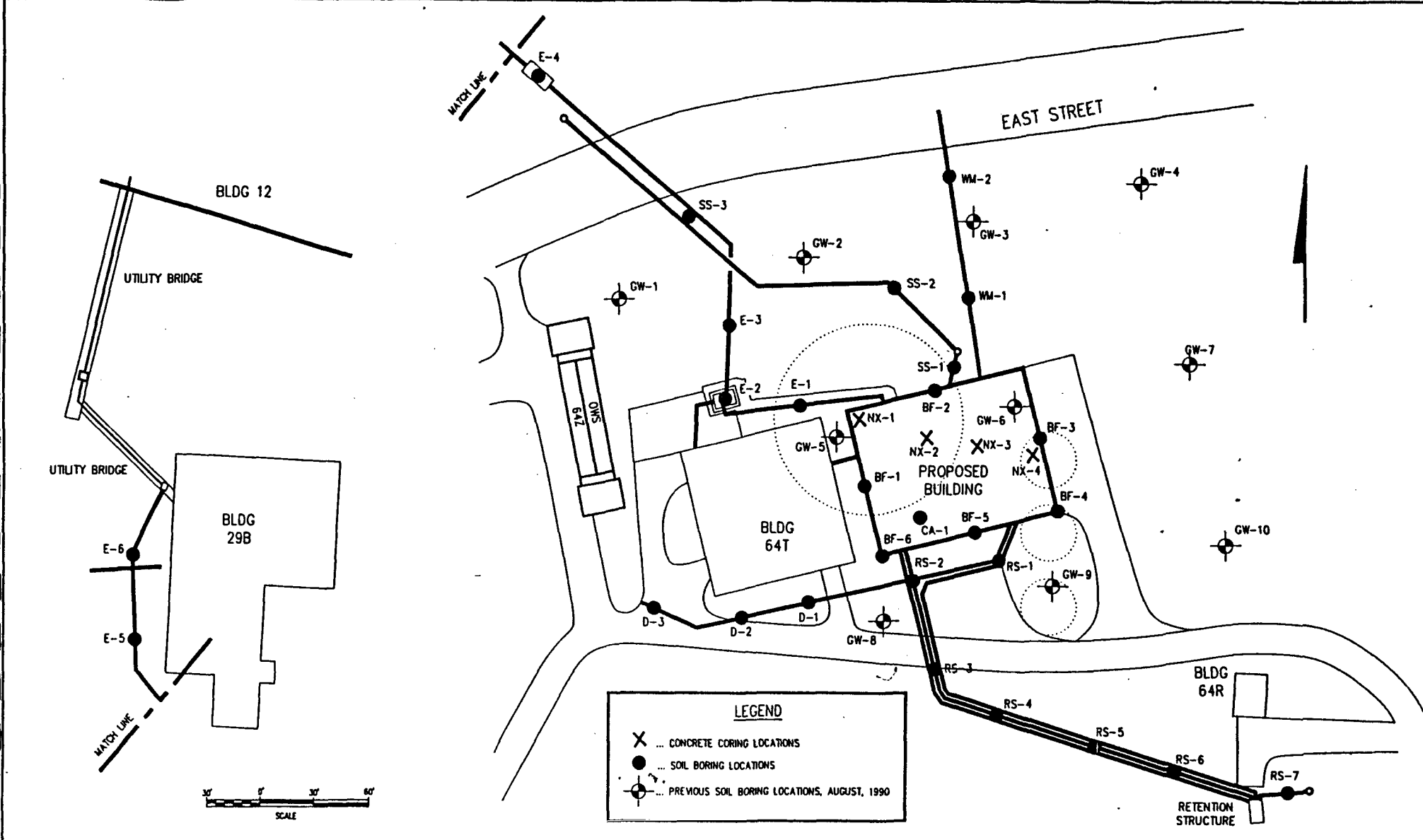
Sample Location and Depth (feet)	Correlating PID Results ^{a)}
SS-3 (0-2)	0.0
SS-3 (2-4)	0.0
SS-3 (4-6)	0.0
E-1 (0-2)	7.0
E-1 (2-4)	55.1
E-1 (4-6)	14.9
E-2 (0-2)	0.0
E-2 (2-3)	0.0
E-3 (0-2)	0.0
E-4 (0-2)	0.0
E-4 (2-4)	94.3
E-4 (4-6)	25.3
E-5 (0-2)	0.4
E-5 (2-3)	16.9
E-6 (0-2)	0.0
E-6 (2-3)	0.0
BF-1 (0-0.05)	22.6
BF-2 (0-0.58)	79.2
BF-3 (0-0.58)	10.4
BF-4 (0-0.5)	7.0
BF-5 (0-0.5)	8.6

^{a)} These results are qualitative only and do not represent the absolute concentrations of any volatile organic compound in the soil core, whether the compound is natural or man-made.

Table 4. Summary of Photoionization Detector (PID) Results for Soil Samples Collected at GE Company, Area 2 Groundwater Treatment Facility, December 5-10, 1990, Pittsfield, Massachusetts.

Sample Location and Depth (feet)	Correlating PID Results ^{a)}
BF-6 (0-2)	6.5
BF-6 (2-3)	7.9
CA-1 (0-2)	41.0
CA-1 (2-4)	6.1
CA-1 (4-5)	79.3

^{a)} These results are qualitative only and do not represent the absolute concentrations of any volatile organic compound in the soil core, whether the compound is natural or man-made.



SOIL BORING LOCATIONS FOR AREA 2 GROUND WATER TREATMENT FACILITY, DECEMBER 5 THRU 10, 1990
GE COMPANY, PITTSFIELD, MASSACHUSETTS

APPENDIX J, SECTION B-7

DELIVERED TO
GRANT BOWMAN@G
10-6-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 646 (East Side Driveway)
Soil Sampling

Date: 11-1-91
File No: 201-10-01
cc: Grant Bowman (GE)
Jackie DeSantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside Bldg 646 on 10-29-91. A drawing showing the sample location is attached (see figure 1). A preliminary analytical report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
646-ESD-C1	<1.0	1	SOIL	DISCRETE-GRAB	0'-1'
646-ESD-C2	<1.0	2	SOIL	DISCRETE-GRAB	0'-1'
646-ESD-C3	<1.0	3	SOIL	DISCRETE-GRAB	0'-1'
646-ESD-C4	<1.0	4	SOIL	DISCRETE-GRAB	0'-1'
646-ESD-C5	1.9	5	SOIL	DISCRETE-GRAB	0'-1'

528

3372



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520
 DESCRIPTION G.E., Pittsfield Job No. 201-10-01
Bldg. 64G East Side Driveway Soil Sampling
 Date Analyzed 10-31-91 DATE COLLECTED See Below DATE RECEIVED 10/29/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
64G-ESD-C1	10/30/91	10/29/91	<1 (.110)	91	<1	soil	A
-C2			<1 (.109)	92	<1		
-C3			<1 (.107)	93	<1		
-C4			<1 (.123)	93	<1		
-C5			1.8	94	1.9		
A) Reagent Blank 1:					<1		
Reference Sample 1:					3.5/3.3 = 106%		
Matrix Spike 64G-ESD-C3:					3.3/3.3 = 100%		
Matrix Spike Duplicate:					3.4/3.3 = 104%		
Precision:					3.33 vs 3.47 = 4.1% RPD		

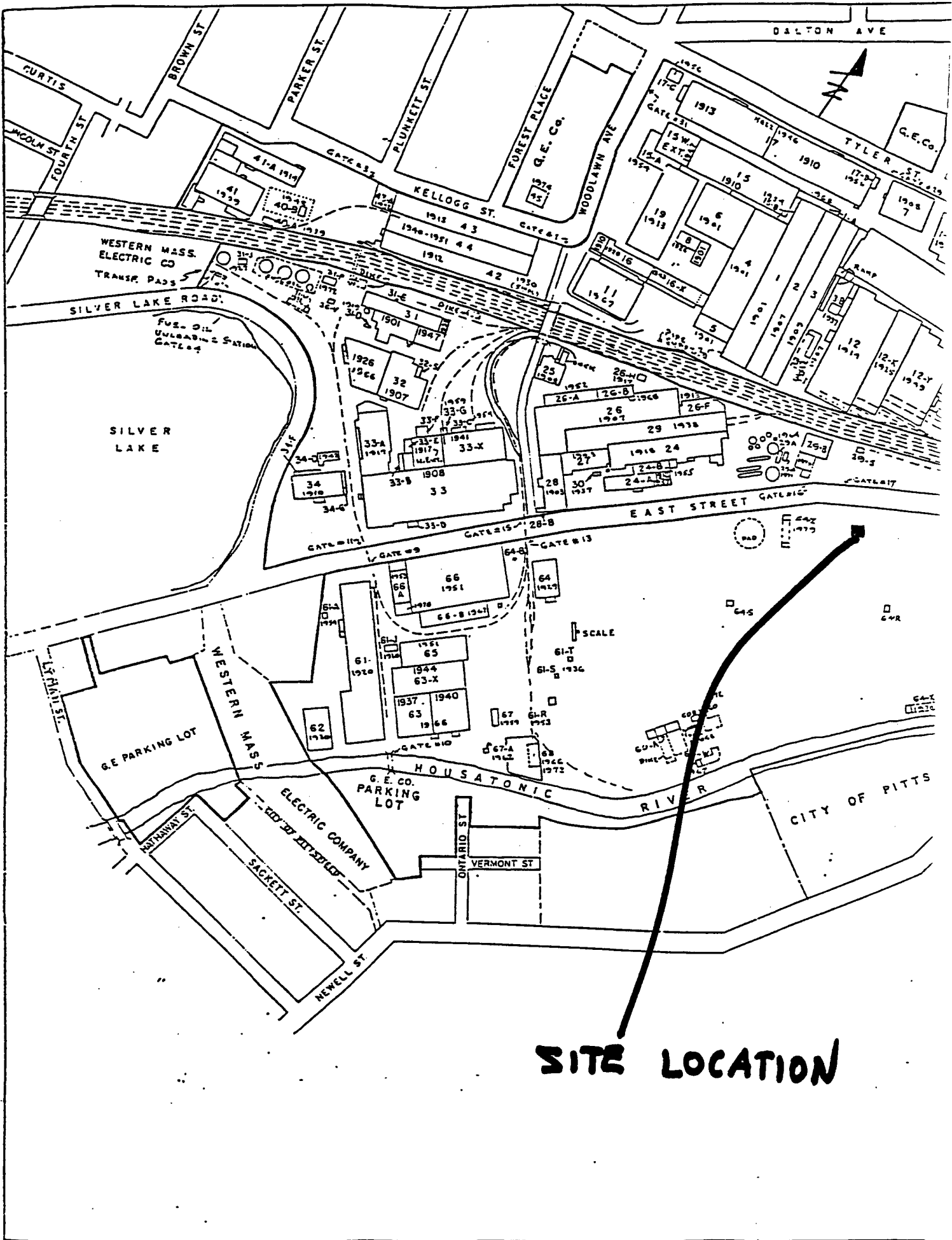
Comments:

Certification No.:

Units: ug/g = ppm

Authorized: _____

Date: _____



SITE LOCATION



SUBJECT BLDG. 64 G (EAST SIDE DRIVE WAY) SOIL SAMPLING	PROJ. NO. 201.10.01	BY AGP	DATE 10-30-91	SHEET
---	------------------------	-----------	------------------	-------

1 IN = 10 FT

FIGURE #1

ASPHALT DRIVE WAY



BLDG. 64 G

#1

#4

#5

#2

#3

BLDG. 64 G (EAST SIDE DRIVE WAY)
SOIL SAMPLING
201.10.01

● - SAMPLE LOCATION

EAST ST →



APPENDIX J, SECTION B-8

DELIVERED TO
GRANT BOWMAN (GE)
6-16-92
REVISED

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Ground Water Treatment Plant Soil Sampling

Date: 6-26-91
File No: 201-10-01
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB and TCLP sampling programs conducted outside Bldg 64-G on 6-5-91. A drawing showing the sample locations is attached (see figure 1). Analytical Reports provided by DRG Laboratories and Alpha Analytical have also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
GW-TP-C1	<.6	1	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C2	1.0	2	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C3	<.6	3	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C4	44.0	4	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C5	4.1	5	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C6	67.0	6	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C7	11.0	7	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C8	9.8	8	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C9	11.0	9	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C10	7.6	10	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C11	7.9	11	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C12	16.0	12	SOIL	DISCRETE-GRAB	0-2'

TCLP SAMPLING RESULTS (NO HERBICIDES OR PESTICIDES)

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
GW-TP-C13	(SEE ALPHA LAB REPORT)	1-3	SOIL	COMPOSITE-GRAB	0-2'
GW-TP-C14	(SEE ALPHA LAB REPORT)	4-6	SOIL	COMPOSITE-GRAB	0-2'
GW-TP-C15	(SEE ALPHA LAB REPORT)	7-12	SOIL	COMPOSITE-GRAB	0-2'

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT: Groundwater Treatment Plant Soil Sampling

PROJECT NO. 201.10.01

BY: AGP

DATE: 07 / 26 / 91

REQUEST FOR SAMPLING

DATE: 06 / 05 / 91

INITIATOR: Jackie DeSantis

BLDG. LOCATION: Outside Bldg. 64-G

CONTACT PERSON: Jackie DeSantis EXT. 2127

ITEM DESCRIPTION:

1) Soil

2)

NOTES:

The following sampling criteria was implemented at the request of Jackie DeSantis (GE).

- 1.) Three soil piles outside Bldg.64-G approx.35 cubic yards, 16 cubic yards and 60 cubic yards. To be sampled for P.C.B.'s Method 8080 and TCLP(no Herbicides or Pesticides). The TCLP analysis to be sent to Alpha Analytical through Pittsfield G.E. lab (Jeff Nicholuson) for courier pick up.

Sample program was conducted on a discrete grab sample basis.

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Ground Water Treatment Plant Soil Sampling

Date: 6-26-91
File No: 201-10-01
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB and TCLP sampling programs conducted outside Bldg 64-G on 6-5-91. A drawing showing the sample locations is attached (see figure 1). Analytical Reports provided by DBG Laboratories and Alpha Analytical have also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
GW-TP-C1	<.6	1	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C2	1.0	2	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C3	<.6	3	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C4	44.0	4	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C5	41.0 4.1	5	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C6	67.0	6	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C7	11.0	7	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C8	9.8	8	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C9	11.0	9	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C10	7.6	10	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C11	7.9	11	SOIL	DISCRETE-GRAB	0-2'
GW-TP-C12	16.0	12	SOIL	DISCRETE-GRAB	0-2'

TCLP SAMPLING RESULTS (NO HERBICIDES OR PESTICIDES)

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
GW-TP-C13	(SEE ALPHA LAB REPORT)	1-3	SOIL	COMPOSITE-GRAB	0-2'
GW-TP-C14	(SEE ALPHA LAB REPORT)	4-6	SOIL	COMPOSITE-GRAB	0-2'
GW-TP-C15	(SEE ALPHA LAB REPORT)	7-12	SOIL	COMPOSITE-GRAB	0-2'

jjh

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY

Test Report

Title: TCLP Analyses of Ground Water Treatment
Plant Soil Samples
Test by: Alpha Analytical
Report by: WA Fessler

Number: EL-91-026
Date: June 28, 1991
Requested by: J DeSantis
Approved: W. J. [Signature]
6/28/91

Three soil samples from the ground water treatment plant were sent to Alpha Analytical Laboratories for determination of toxicity characteristics listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

Samples GW-TP-C13, GW-TP-C14, and GW-TP-C15 did not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

C13 → Pic No 1 (Ref)
C14 → Pic No 2 (Ref) → 67 ppm PCB
C15 → Pic No 3 (Ref)

DISTRIBUTION: Manager, Environmental Laboratory C23
J DeSantis 11-205

Sample ID		Result	Regulatory Lim	
	GW-TP-C13	mg/L	mg/L	
Arsenic	<	.1	5.000	OK
Barium		.16	100.000	OK
Cadmium	<	.01	1.000	OK
Chromium	<	.02	5.000	OK
Lead	<	.05	5.000	OK
Mercury	<	.0005	.200	OK
Selenium	<	.005	1.000	OK
Silver	<	.01	5.000	OK
<hr/>				
o-Cresol	<		200.000	OK
m-Cresol	<		200.000	OK
p-Cresol	<		200.000	OK
Cresols	<	.029	200.000	OK
2,4-Dinitrotoluene	<	.015	.130	OK
Hexachlorobenzene	<	.011	.130	OK
Hexachlorobutadiene	<	.032	.500	OK
Hexachloroethane	<	.02	3.000	OK
Nitrobenzene	<	.0076	2.000	OK
Pentachlorophenol	<	.0368	100.000	OK
2,4,5-Trichlorophenol	<	.019	400.000	OK
2,4,6-Trichlorophenol	<	.011	2.000	OK
Pyridine	<	.1	5.000	OK
<hr/>				
Benzene	<	.005	.500	OK
Carbon Tetrachloride	<	.005	.500	OK
Chlorobenzene	<	.018	100.000	OK
Chloroform	<	.0075	6.000	OK
1,4-Dichlorobenzene	<	.05	7.500	OK
1,2-Dichloroethane	<	.0075	.500	OK
1,1-Dichloroethylene	<	.0075	.700	OK
Tetrachloroethylene	<	.0075	.700	OK
Trichloroethylene	<	.005	.500	OK
Vinyl Chloride	<	.018	.200	OK
Methyl Ethyl Ketone	<	.05	200.000	OK

Sample ID		Result mg/L	Regulatory Lim mg/L	
	GW-TP-C14			
Arsenic	<	.1	5.000	OK
Barium		.49	100.000	OK
Cadmium	<	.01	1.000	OK
Chromium	<	.02	5.000	OK
Lead		.26	5.000	OK
Mercury	<	.0005	.200	OK
Selenium	<	.005	1.000	OK
Silver	<	.02	5.000	OK
<hr/>				
o-Cresol	<		200.000	OK
m-Cresol	<		200.000	OK
p-Cresol	<		200.000	OK
Cresols	<	.029	200.000	OK
2,4-Dinitrotoluene	<	.015	.130	OK
Hexachlorobenzene	<	.011	.130	OK
Hexachlorobutadiene	<	.032	.500	OK
Hexachloroethane	<	.02	3.000	OK
Nitrobenzene	<	.0076	2.000	OK
Pentachlorophenol	<	.0368	100.000	OK
2,4,5-Trichlorophenol	<	.019	400.000	OK
2,4,6-Trichlorophenol	<	.011	2.000	OK
Pyridine	<	.1	5.000	OK
<hr/>				
Benzene	<	.005	.500	OK
Carbon Tetrachloride	<	.005	.500	OK
Chlorobenzene	<	.018	100.000	OK
Chloroform	<	.0075	6.000	OK
1,4-Dichlorobenzene	<	.05	7.500	OK
1,2-Dichloroethane	<	.0075	.500	OK
1,1-Dichloroethylene	<	.0075	.700	OK
Tetrachloroethylene	<	.0075	.700	OK
Trichloroethylene	<	.005	.500	OK
Vinyl Chloride	<	.018	.200	OK
Methyl Ethyl Ketone	<	.05	200.000	OK

Sample ID		Result	Regulatory Lim	
	GW-TP-C15	mg/L	mg/L	
Arsenic	<	.1	5.000	OK
Barium		.19	100.000	OK
Cadmium	<	.01	1.000	OK
Chromium	<	.02	5.000	OK
Lead	<	.05	5.000	OK
Mercury	<	.0005	.200	OK
Selenium	<	.005	1.000	OK
Silver	<	.01	5.000	OK
<hr/>				
o-Cresol	<		200.000	OK
m-Cresol	<		200.000	OK
p-Cresol	<		200.000	OK
Cresols	<	.029	200.000	OK
2,4-Dinitrotoluene	<	.015	.130	OK
Hexachlorobenzene	<	.011	.130	OK
Hexachlorobutadiene	<	.032	.500	OK
Hexachloroethane	<	.02	3.000	OK
Nitrobenzene	<	.0076	2.000	OK
Pentachlorophenol	<	.0368	100.000	OK
2,4,5-Trichlorophenol	<	.019	400.000	OK
2,4,6-Trichlorophenol	<	.011	2.000	OK
Pyridine	<	.1	5.000	OK
<hr/>				
Benzene	<	.005	.500	OK
Carbon Tetrachloride	<	.005	.500	OK
Chlorobenzene	<	.018	100.000	OK
Chloroform	<	.0075	6.000	OK
1,4-Dichlorobenzene	<	.05	7.500	OK
1,2-Dichloroethane	<	.0075	.500	OK
1,1-Dichloroethylene	<	.0075	.700	OK
Tetrachloroethylene	<	.0075	.700	OK
Trichloroethylene	<	.005	.500	OK
Vinyl Chloride	<	.018	.200	OK
Methyl Ethyl Ketone	<	.05	200.000	OK

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.1 Date Received: 06/11/91

Sample Matrix: Soil Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	----	-----	---	13	1311	06/14/91	-----
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	06/22/91
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	06/22/91
Chlorobenzene	ND	mg/L	0.018	1	8240	----	06/22/91
Chloroform	ND	mg/L	0.0075	1	3240	----	06/22/91
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	06/22/91
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	06/22/91
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	06/22/91
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	06/22/91
Trichloroethene	ND	mg/L	0.005	1	8240	----	06/22/91
Vinyl chloride	ND	mg/L	0.018	1	8240	----	06/22/91
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	06/22/91
TCLP Extraction	----	-----	---	13	1311	06/12/91	-----
RCRA 8 Metals							
Arsenic	ND	mg/L	0.10	1	6010	06/13/91	06/14/91
Barium	0.16	mg/L	0.05	1	6010	06/13/91	06/14/91
Cadmium	ND	mg/L	0.01	1	6010	06/13/91	06/14/91
Chromium	ND	mg/L	0.02	1	6010	06/13/91	06/14/91
Lead	ND	mg/L	0.05	1	6010	06/13/91	06/14/91
Mercury	ND	mg/L	0.0005	1	7470	06/13/91	06/14/91
Selenium	ND	mg/L	0.005	1	7740	06/13/91	06/14/91
Silver	ND	mg/L	0.01	1	6010	06/13/91	06/14/91

<u>Volatile Organics</u>	<u>% Surrogate Recovery</u>
1,2-Dichloroethane-d4	102%
Toluene-d8	103%
4-Bromofluorobenzene	103%

NOTE: TCLP Metals are spike recovery corrected. TCLP Organics results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.1 Date Received: 06/11/91

Sample Matrix: Solid Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	--	--	--	1	1311	06/12/91	-----
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	06/13/91	06/15/91
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	06/13/91	06/15/91
Hexachlorobenzene	ND	mg/L	0.011	1	8270	06/13/91	06/15/91
Hexachloro-1,3-butadiene	ND	mg/L	0.032	1	8270	06/13/91	06/15/91
Hexachloroethane	ND	mg/L	0.020	1	8270	06/13/91	06/15/91
Nitrobenzene	ND	mg/L	0.0076	1	8270	06/13/91	06/15/91
Pentachlorophenol	ND	mg/L	0.0368	1	8270	06/13/91	06/15/91
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	06/13/91	06/15/91
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	06/13/91	06/15/91
Pyridine	ND	mg/L	0.10	1	8270	06/13/91	06/15/91

<u>Acid/Base/Neutral Extractables</u>	<u>% Surrogate Recovery</u>
2-Fluorophenol	85%
Phenol-d6	79%
Nitrobenzene-d5	79%
2-Fluorobiphenyl	74%
2,4,6-Tribromophenol	64%
4-Terphenyl-d14	90%

NOTE: TCLP Organics results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.1S Date Received: 06/11/91

Sample Matrix: Soil Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

<u>PARAMETER</u>	<u>%RECOVERY</u>
<hr/>	
TCLP Acid/Base/Neutral Extractables	
Total Cresol	31%
2,4-Dinitrotoluene	94%
Hexachlorobenzene	91%
Hexachloro-1,3-butadiene	35%
Hexachloroethane	43%
Nitrobenzene	74%
Pentachlorophenol	49%
2,4,5-Trichlorophenol	57%
2,4,6-Trichlorophenol	55%
Pyridine	5%

<u>Acid/Base/Neutral Extractables</u>	<u>% Surrogate Recovery</u>
2-Fluorophenol	17%
Phenol-d6	23%
Nitrobenzene-d5	72%
2-Fluorobiphenyl	75%
2,4,6-Tribromophenol	40%
4-Terphenyl-d14	89%

NOTE: TCLP Organics results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.1S Date Received: 06/11/91

Sample Matrix: Solid Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

<u>PARAMETER</u>	<u>%RECOVERY</u>
TCLP RCRA 8 Metals	
Arsenic	94%
Barium	102%
Cadmium	98%
Chromium	92%
Lead	91%
Mercury	110%
Selenium	95%
Silver	93%
TCLP Volatile Organics	
Benzene	72%
Carbon tetrachloride	94%
Chlorobenzene	77%
Chloroform	83%
1,4-Dichlorobenzene	82%
1,2-Dichloroethane	84%
1,1-Dichloroethene	91%
Tetrachloroethene	80%
Trichloroethene	92%
Vinyl chloride	145%
Methyl ethyl ketone	97%

<u>Volatile Organics</u>	<u>% Surrogate Recovery</u>
1,2-Dichloroethane-d4	113%
Toluene-d8	103%
4-Bromofluorobenzene	103%

NOTE: TCLP Metals are spike recovery corrected. TCLP Organics results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.2 Date Received: 06/11/91

Sample Matrix: Solid Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	--	--	--	1	1311	06/12/91	-----
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	06/13/91	06/15/91
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	06/13/91	06/15/91
Hexachlorobenzene	ND	mg/L	0.011	1	8270	06/13/91	06/15/91
Hexachloro-1,3-butadiene	ND	mg/L	0.032	1	8270	06/13/91	06/15/91
Hexachloroethane	ND	mg/L	0.020	1	8270	06/13/91	06/15/91
Nitrobenzene	ND	mg/L	0.0076	1	8270	06/13/91	06/15/91
Pentachlorophenol	ND	mg/L	0.0368	1	8270	06/13/91	06/15/91
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	06/13/91	06/15/91
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	06/13/91	06/15/91
Pyridine	ND	mg/L	0.10	1	8270	06/13/91	06/15/91

<u>Acid/Base/Neutral Extractables</u>	<u>% Surrogate Recovery</u>
2-Fluorophenol	14%
Phenol-d6	21%
Nitrobenzene-d5	73%
2-Fluorobiphenyl	68%
2,4,6-Tribromophenol	52%
4-Terphenyl-d14	92%

NOTE: TCLP Organics results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.2S Date Received: 06/11/91

Sample Matrix: Solid Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

PARAMETER	%RECOVERY
TCLP RCRA 8 Metals	
Arsenic	93%
Barium	111%
Cadmium	100%
Chromium	101%
Lead	101%
Mercury	110%
Selenium	93%
Silver	58%

NOTE: TCLP Metals are spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.3 Date Received: 06/11/91

Sample Matrix: Soil Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	----	-----	---	13	1311	06/14/91	-----
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	06/22/91
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	06/22/91
Chlorobenzene	ND	mg/L	0.018	1	8240	----	06/22/91
Chloroform	ND	mg/L	0.0075	1	8240	----	06/22/91
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	06/22/91
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	06/22/91
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	06/22/91
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	06/22/91
Trichloroethene	ND	mg/L	0.005	1	8240	----	06/22/91
Vinyl chloride	ND	mg/L	0.018	1	8240	----	06/22/91
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	06/22/91
TCLP Extraction	----	-----	---	13	1311	06/12/91	-----
RCRA 8 Metals							
Arsenic	ND	mg/L	0.10	1	6010	06/13/91	06/14/91
Barium	0.19	mg/L	0.05	1	6010	06/13/91	06/14/91
Cadmium	ND	mg/L	0.01	1	6010	06/13/91	06/14/91
Chromium	ND	mg/L	0.02	1	6010	06/13/91	06/14/91
Lead	ND	mg/L	0.05	1	6010	06/13/91	06/14/91
Mercury	ND	mg/L	0.0005	1	7470	06/13/91	06/14/91
Selenium	ND	mg/L	0.005	1	7740	06/13/91	06/14/91
Silver	ND	mg/L	0.01	1	6010	06/13/91	06/14/91

Volatile Organics

% Surrogate Recovery

1,2-Dichloroethane-d4
Toluene-d8
4-Bromofluorobenzene

103%
103%
104%

NOTE: TCLP Metals are spike recovery corrected. TCLP Organics results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.3 Date Received: 06/11/91

Sample Matrix: Solid Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	--	--	--	1	1311	06/12/91	-----
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	06/13/91	06/15/91
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	06/13/91	06/15/91
Hexachlorobenzene	ND	mg/L	0.011	1	8270	06/13/91	06/15/91
Hexachloro-1,3-butadiene	ND	mg/L	0.032	1	8270	06/13/91	06/15/91
Hexachloroethane	ND	mg/L	0.020	1	8270	06/13/91	06/15/91
Nitrobenzene	ND	mg/L	0.0076	1	8270	06/13/91	06/15/91
Pentachlorophenol	ND	mg/L	0.0368	1	8270	06/13/91	06/15/91
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	06/13/91	06/15/91
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	06/13/91	06/15/91
Pyridine	ND	mg/L	0.10	1	8270	06/13/91	06/15/91

<u>Acid/Base/Neutral Extractables</u>	<u>% Surrogate Recovery</u>
2-Fluorophenol	23%
Phenol-d6	29%
Nitrobenzene-d5	62%
2-Fluorobiphenyl	62%
2,4,6-Tribromophenol	65%
4-Terphenyl-d14	85%

NOTE: TCLP Organics results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913602.3S Date Received: 06/11/91

Sample Matrix: Solid Date Reported: 06/27/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Four VOA vials and one glass jar

Analysis Requested: Analysis as listed below

PARAMETER	%RECOVERY
<hr/>	
TCLP RCRA 8 Metals	
Arsenic	93%
Barium	108%
Cadmium	73%
Chromium	100%
Lead	100%
Mercury	100%
Selenium	92%
Silver	80%

NOTE: TCLP Metals are spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES

ACCEPTABLE SURROGATE SPIKE RECOVERY LIMITS

FRACTION	SURROGATE COMPOUND	LOW/MEDIUM WATER	LOW/MEDIUM SOIL/SEDIMENT
VOA	Toluene-d ₈	88-110 %	81-117 %
VOA	4-Bromofluorobenzene	86-115 %	74-121 %
VOA	1,2-Dichloroethane-d ₄	76-114 %	70-121 %
BNA	Nitrobenzene-d ₅	35-114 %	23-120 %
BNA	2-Fluorobiphenyl	43-116 %	30-115 %
BNA	p-Terphenyl-d ₁₄	33-141 %	18-137 %
BNA	Phenol-d ₅	10-94 %	24-113 %
BNA	2-Fluorophenol	10-100 %	25-121 %
BNA	2,4,6-Tribromophenol	10-123 %	19-122 %
Pest.	Dibutylchloroendate	24-154 %	20-150 %

ALPHA ANALYTICAL LABORATORIES
ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS
FOR INORGANICS

PARAMETER GROUP	WATER	SOIL
Metals	75-125 %	60-140 %
Wet Chemistry	70-130 %	N/A

ALPHA ANALYTICAL LABORATORIES
ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS
FOR ORGANICS

FRACTION	MATRIX SPIKE COMPOUND	WATER	SOIL/SEDIMENT
VOA	1,1-Dichloroethene	61-145 %	59-172 %
VOA	Trichloroethene	71-120 %	62-137 %
VOA	Chlorobenzene	75-130 %	60-133 %
VOA	Toluene	76-125 %	59-139 %
VOA	Benzene	76-127 %	66-142 %
BN	1,2,4-Trichlorobenzene	39-98 %	38-107 %
BN	Acenaphthene	46-118 %	31-137 %
BN	2,4-Dinitrotoluene	39-139 %	39-139 %
BN	Di-n-butyl phthalate	11-117 %	29-135 %
BN	Pyrene	26-127 %	35-142 %
BN	N-nitros-di-n-propylamine	41-116 %	41-126 %
BN	1,4-Dichlorobenzene	36-97 %	28-104 %
Acid	Pentachlorophenol	14-176 %	14-176 %
Acid	Phenol	12-89 %	26-90 %
Acid	2-Chlorophenol	27-123 %	25-102 %
Acid	4-Chloro-3-methylphenol	23-97 %	26-103 %
Acid	4-Nitrophenol	10-80 %	11-114 %
Pest.	Lindane	56-123 %	46-127 %
Pest.	Heptachlor	40-131 %	35-130 %
Pest.	Aldrin	40-120 %	34-132 %
Pest.	Dieldrin	52-126 %	31-134 %
Pest.	Endrin	56-121 %	42-139 %
Pest.	4,4'-DDT	38-127 %	23-134 %

ALPHA ANALYTICAL LABS
ADDENDUM I
REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
2. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 16th Edition. 1985.
3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.
4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-82-055. 1983.
5. Oil Spill Identification System. CG-D-52-77 U. S. Coast Guard. 1977.
6. Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water. EPA 600/4-82-057. 1982.
7. U. S. Department of Health & Human Services, National Institute of Occupational Safety and Health. Peter M. Eller, NIOSH Manual of Analytical Methods, Third Edition, 1984.
8. Handbook of Analytical Quality Control in Water and Wastewater Laboratories. EPA 600/4-79-019. March 1979.
9. The United States Pharmacopeia. The National Formulary. USP 20th Edition. Formulary 15th Edition. 1980.
10. Choosing Cost-Effective QA/QC (Quality Assurance/Quality Control) Programs for Chemical Analysis. PB85-241461. U. S. Department of Commerce, National Technical Information Service. August 1985.
11. Manual of Analytical Quality Control for Pesticides in Human and Environmental Media. PB 261 019. EPA 600/1-76-017. February 1975.
12. Annual Book of ASTM Standards. Sections 0, 3, 4, 5, 6, 8, 9, 11, and 14. American Society for Testing and Materials 1986.
13. 40 CFR Part 261, App. II. Method 1311 Toxicity Characteristic Leaching Procedure (TCLP). July 1, 1990 Edition.
14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. Available from USEPA, Cincinnati, 26 West Martin Luther King Drive, Cincinnati, Ohio, 45268.



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Groundwater Treatment Plant Soil Sampling B & B # 201.10.01
Pittsfield, MA MATRIX: Soil
 Date Analyzed 6-13-91 DATE COLLECTED 6-5-91 DATE RECEIVED 6-7-91

	Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS
GW-TP-C1	M5666	<0.6	-	94.
GW-TP-C2	M5667	1.0	1260	94.
GW-TP-C3	N5668	<0.6	-	95.
GW-TP-C4	M5669	44.	1260	89.
GW-TP-C5	M5670	4.1	1260	85.
GW-TP-C6	M5671	67.	1260	92.
GW-TP-C7	M5672	11.	1260	85.
GW-TP-C8	M5673	9.8	1260	86.
GW-TP-C9	M5674	11.	1260	84.
GW-TP-C10	M5675	7.6	1260	87.
GW-TP-C11	M5676	7.9	1260	86.
GW-TP-C12	M5677	16.	1260	87.

Comments:

Certification No.: NY034

Units: mg/kg dry weight

Authorized: *Anthony Crowley*

Date: July 9, 1991

SUBJECT	PROJ. NO.	BY	DATE	SHEET
GROUND WATER TREATMENT PLANT SOIL SAMPLING	201-10-01	JJH	7-3-91	1 of 1

BLOG 64T

NEW GROUND WATER TREATMENT
PLANT
BLOG 64G

N

ROADWAY

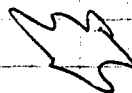
19' x 20' x 5' 35 CD 705
PILE 2

PILE 1
9' x 16' x 6'
16 CD 405

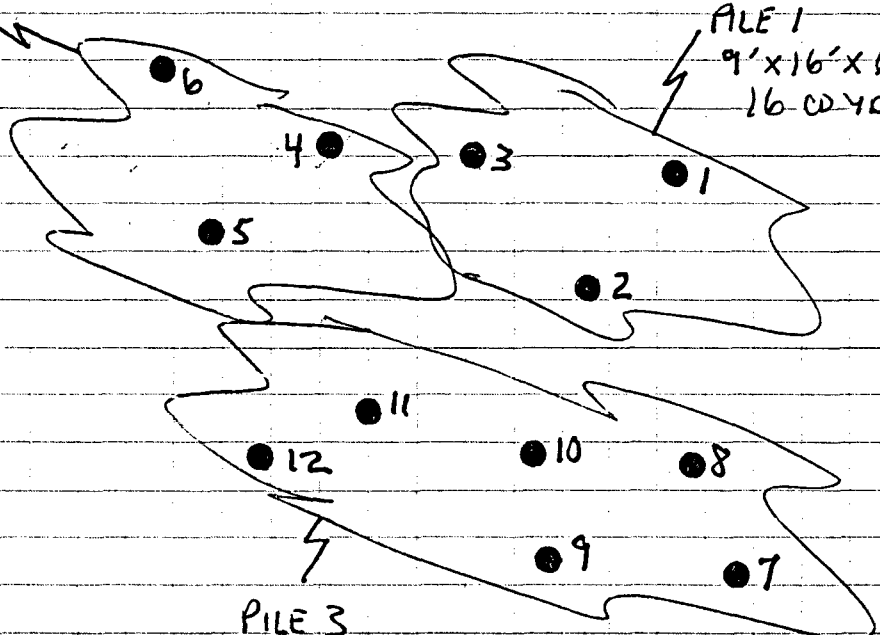
PILE 3
24' x 15' x 9'
60 CD 405

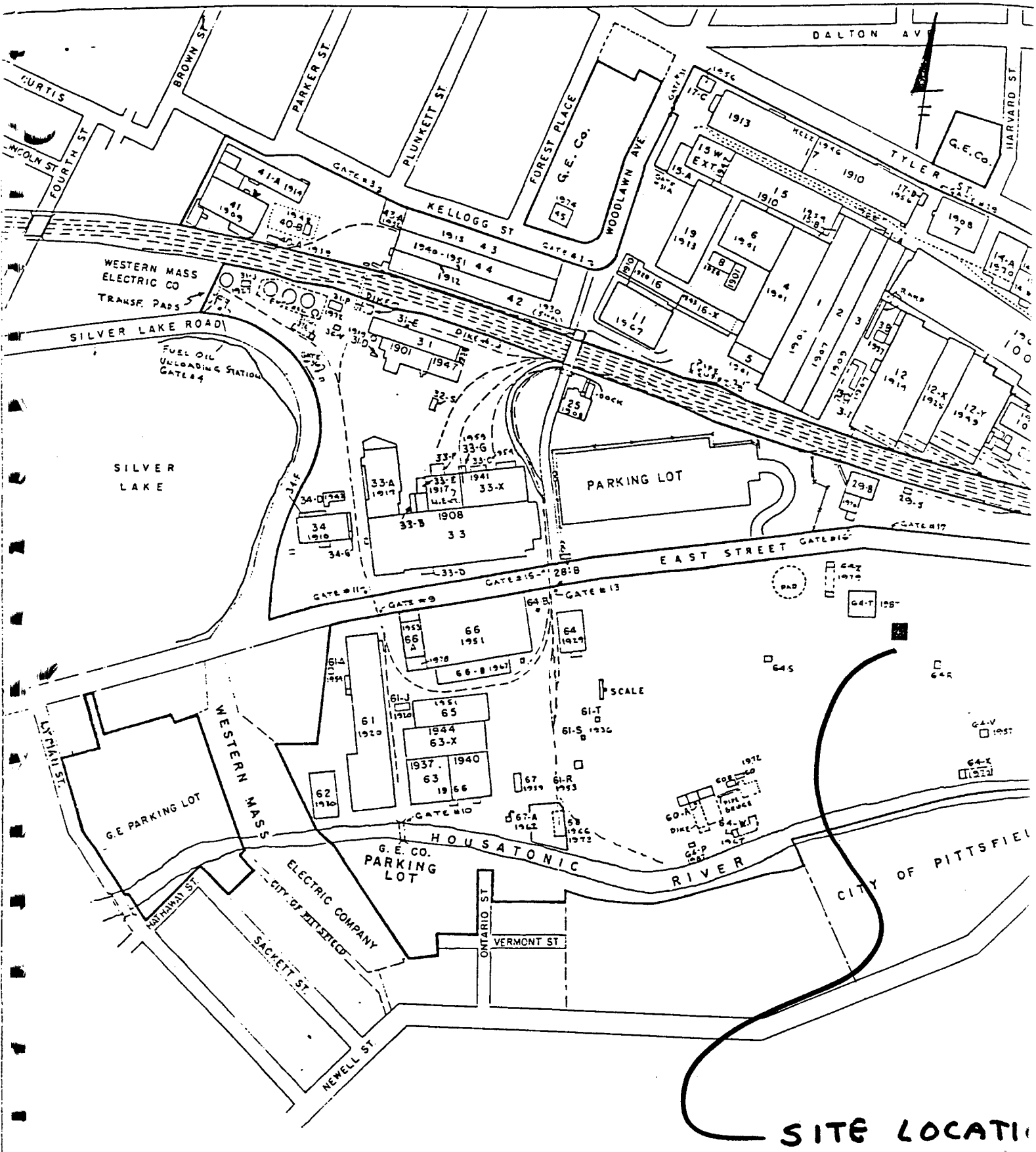
GROUND WATER TREATMENT PLANT
SOIL SAMPLING 201-10-01

LEGEND

 - SOIL PILE

 - SAMPLE LOCATION





SITE LOCATION



LABORATORIES, INC.

LEVEL OF REPORT: 1

DATE SCHEDULED: 6-10-91 (6539)

Laboratory Report

CLIENT Blasland + Bouck Engineers, P.C.

JOB NO. 2887-026-517

DESCRIPTION Groundwater Treatment Plant Soil Sampling

201-10-01

MATRIX: Soil

Date analyzed: 6/13/91 DATE COLLECTED 6-5-91

DATE RECEIVED 6-7-91

Description:

Description	Lab#:	PCB	Aroclor	PCTS
GW-TP-C1	MS666	4.6		94
GW-TP-C2	MS667	1.0	1260	94
GW-TP-C3	MS668	4.6		95
GW-TP-C4	MS669	4.4	1260	89
GW-TP-C5	MS670	4.1		85
GW-TP-C6	MS671	6.7		92
GW-TP-C7	MS672	11.		85
GW-TP-C8	MS673	9.8		86
GW-TP-C9	MS674	11.		84
GW-TP-C10	MS675	7.6		87
GW-TP-C11	MS676	7.9		86
GW-TP-C12	MS677	16.		87

PRELIMINARY

JUN 26 1991

Comments:

Certification No.: NY 034

Units: mg/kg dry wt.

Authorized: _____

Date: _____

APPENDIX J, SECTION B-9

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Robert W. Rhoades
Re: Retention Tank Sampling (Area 2)

Date: 3/12/89 -
File No: 101-75-12
cc: Grant Bowman (GE)

The following is a summary of the sample results for the P.C.B. sampling program conducted on 2/28/89 at the Retention Tank Excavation Site (Area 2). A drawing showing the sample location is attached (see Figure 1). An Analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
RTE-C1	14	1	SOIL	DISCRETE-GRAB	0"-12"
RTE-C2	14	2	SOIL	DISCRETE-GRAB	0"-18"
RTE-C3	10	3	SOIL	DISCRETE-GRAB	0"-18"
RTE-C4	18	4	SOIL	DISCRETE-GRAB	0"-20"
RTE-C5	22	5	SOIL	DISCRETE-GRAB	0"-12"
RTE-C6	16	6	SOIL	DISCRETE-GRAB	0"-16"
RTE-C7	13	7	SOIL	DISCRETE-GRAB	0"-15"

RWR/bee



PRELIMINARY

Laboratory Report

CLIENT BtB Pittsfield JOB NO. 2887.026.517

DESCRIPTION PCB Soils # 101-75.12

DATE COLLECTED _____ DATE REC'D. 3.3.89 DATE ANALYZED 3.6.89

DATE EXTRACTED: 3.1.89 (IN LAB)

(PITTSFIELD LABORATORY)

DESCRIPTION:	PCB (dry wt.) ug/g	AROCLOR		PCTS(%)
RTE-C1	14.	1260		84.3
-C2	14.			93.1
-C3	10.			84.9
-C4	18.			86.7
-C5	22.			84.6
-C6	16.			91.7
-C7	13.			91.4
-DUP C6	12.	↓		88.6
LAB BLANK 2 3.1.89	<5.0	—		
RTE-MSCT	16.	1242	% Rec 140.	88.4
↓	11.	1260	—	↓

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/l (ppm) unless otherwise noted

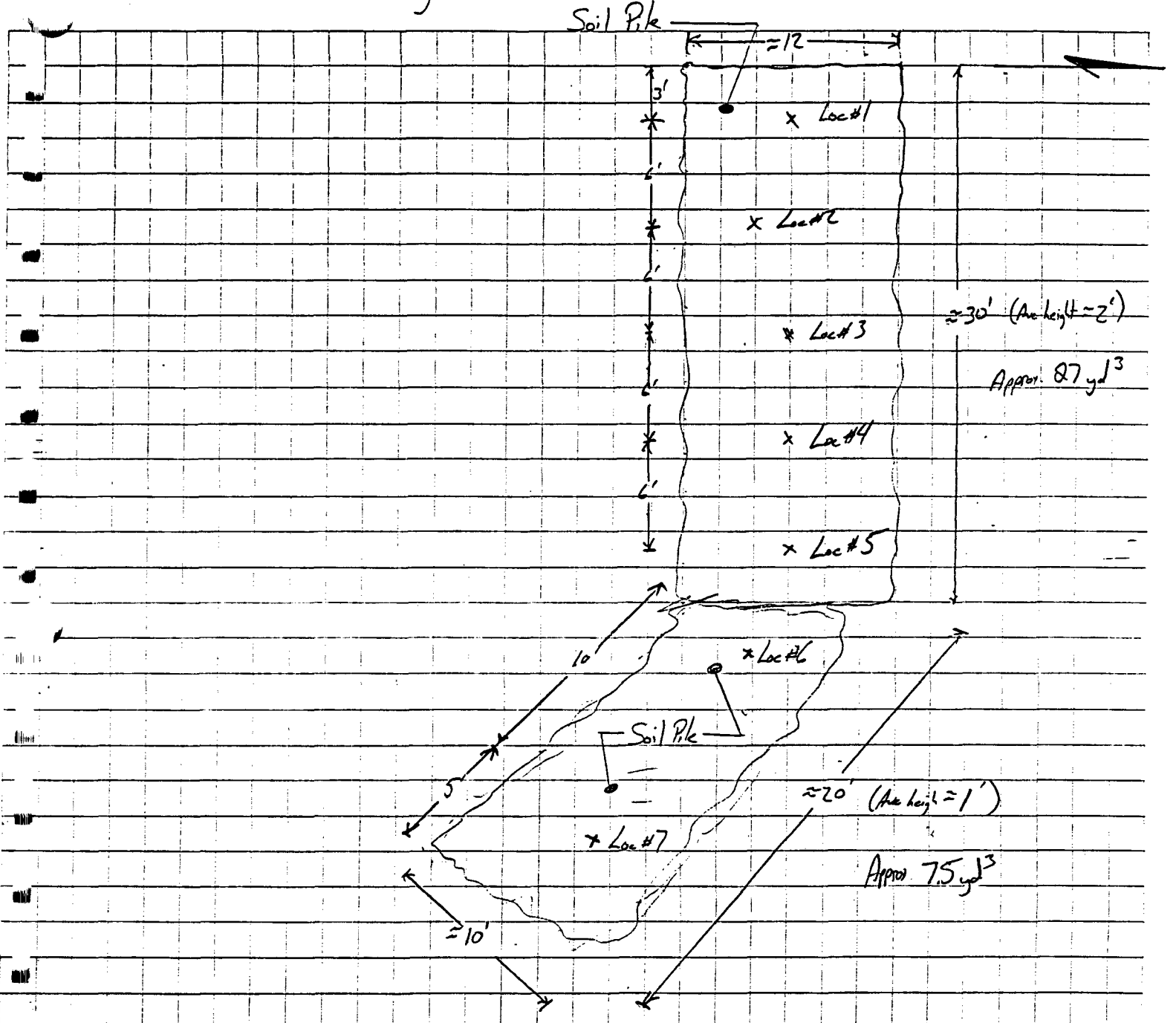
Comments:

Authorized: _____

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Date: _____

SUBJECT Peterson Tank Excavation Sampling	PROJ. NO.	BY RJP	DATE 2-28-89	SHEET 1-1
--	-----------	-----------	-----------------	--------------



Soil Pile is located on the South Side of the plant, NW of the Water Retention Pond. It was created from the excavation of a hole for a Retention Tank.

APPENDIX J, SECTION B-10

DELIVERED TO
GRANT BOWMAN (GE)
3-30-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Caisson 64R Sludge Sampling (Sediment & Water)

Date: 2-14-92
File No: 101-75-17
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sampling program conducted on 2-11-92, from sludge (sediment & water) from Caisson 64R.

At the request of Jackie DeSantis(GE), discrete-grab samples were collected from the Caisson and analyzed for the following.

- * Total PCB's using EPA Method 8080, analyzed by OBG Laboratories
- * TCLP (no herbicides or pesticides) analysis by Alpha Analytical

A summary table of the sampling program results have been provided (Table 1), including drawings showing the site location (Figure 1) and sample location (Figure 2). A analytical report provided by OBG Laboratories for PCB's Method 8080 and a analytical report provided by Alpha Analytical for TCLP's (no herbicides or pesticides) has also been included (Attachment 1).

Caisson 64R Sludge (Sediment & Water) Sampling
101-75-17

TABLE 1

SAMPLE LOCATION	LAB ID	SAMPLE DATE	TOTAL PCB'S METHOD 8080 ug/l=PPB	TCLP (NO HERBICIDES OR PESTICIDES)	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
1	64R-C1	02-11-92	27,000	-----	SEDIMENT & WATER	DISCRETE-GRAB	0-18"	2
1	64R-C2	02-11-92	-----	SEE ALPHA ANALYTICAL REPORT	SEDIMENT & WATER	DISCRETE-GRAB	0-18"	2



LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Caisson 64 R Sludge Sampling B & B 101.75.17
Pittsfield, MA MATRIX: Sludge
 DATE COLLECTED 2-11-92 DATE RECEIVED 2-12-92

Description:	64R-C1			
Sample #	P2631			
PCB	27,000.			
Aroclor	1260			
PERCENT TOTAL SOLIDS	11.			

Comments:

Certification No.: NY034

Units: µg/l

Authorized: *Anthony...*

Date: March 13, 1992

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analysis of 64R Caisson Sludge Sample

Number: EL-92-024

Date: March 2, 1992

Test by: Alpha Analytical

Requested by: J DeSantis

Report by: WA Fessler

Approved: *W. DeSantis*

3-2-92

One sample of sludge from the 64R caisson was sent to Alpha Analytical Laboratories for determination of toxicity characteristics listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

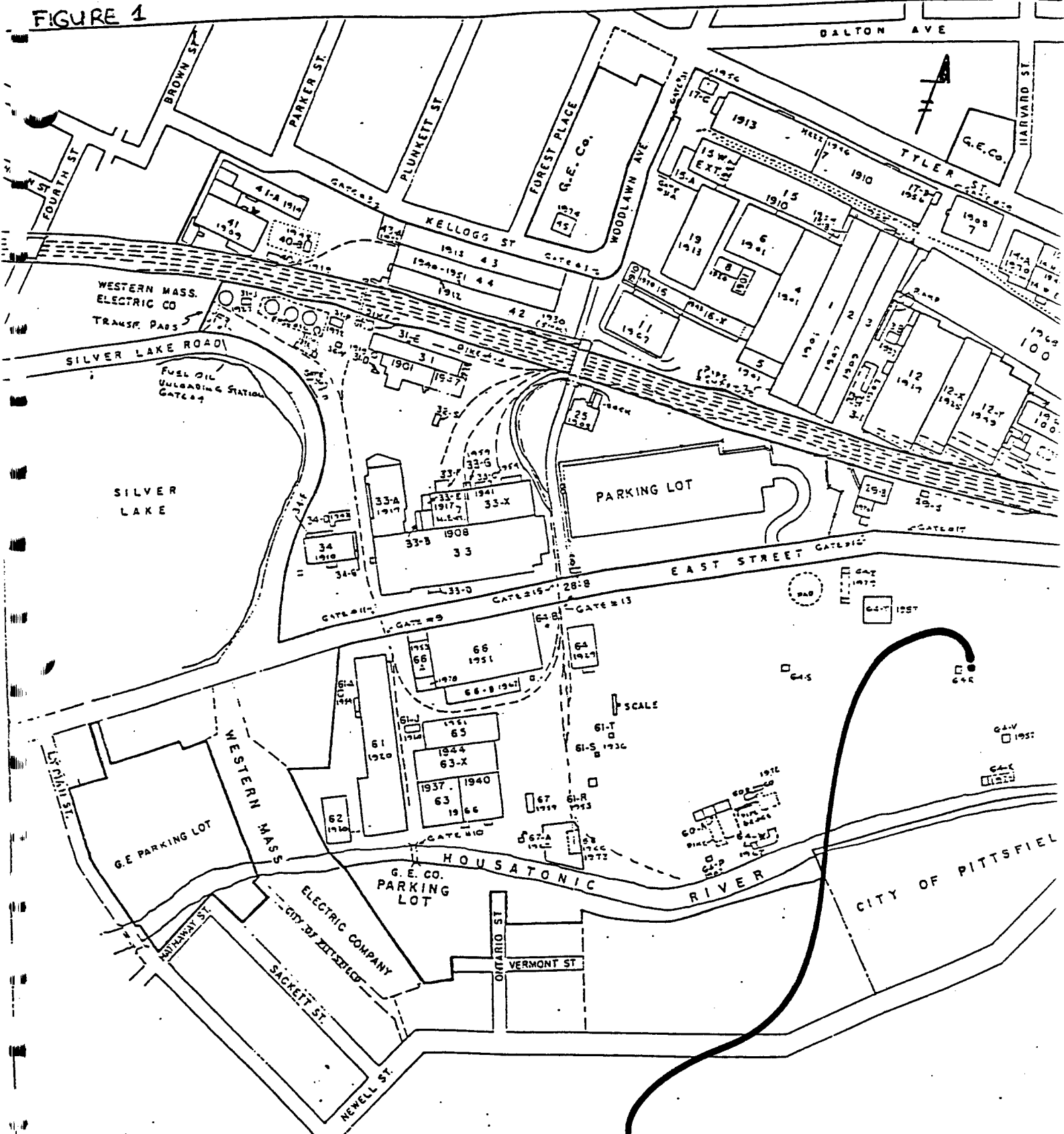
Sample 64R-C2 did not show the characteristic of toxicity.

Due to matrix interference, the detection limits (MDL) for some organic compounds are at or above the regulatory limits. These parameters are identified by the comment 'LIMIT'.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
 J DeSantis 11-205

FIGURE 1

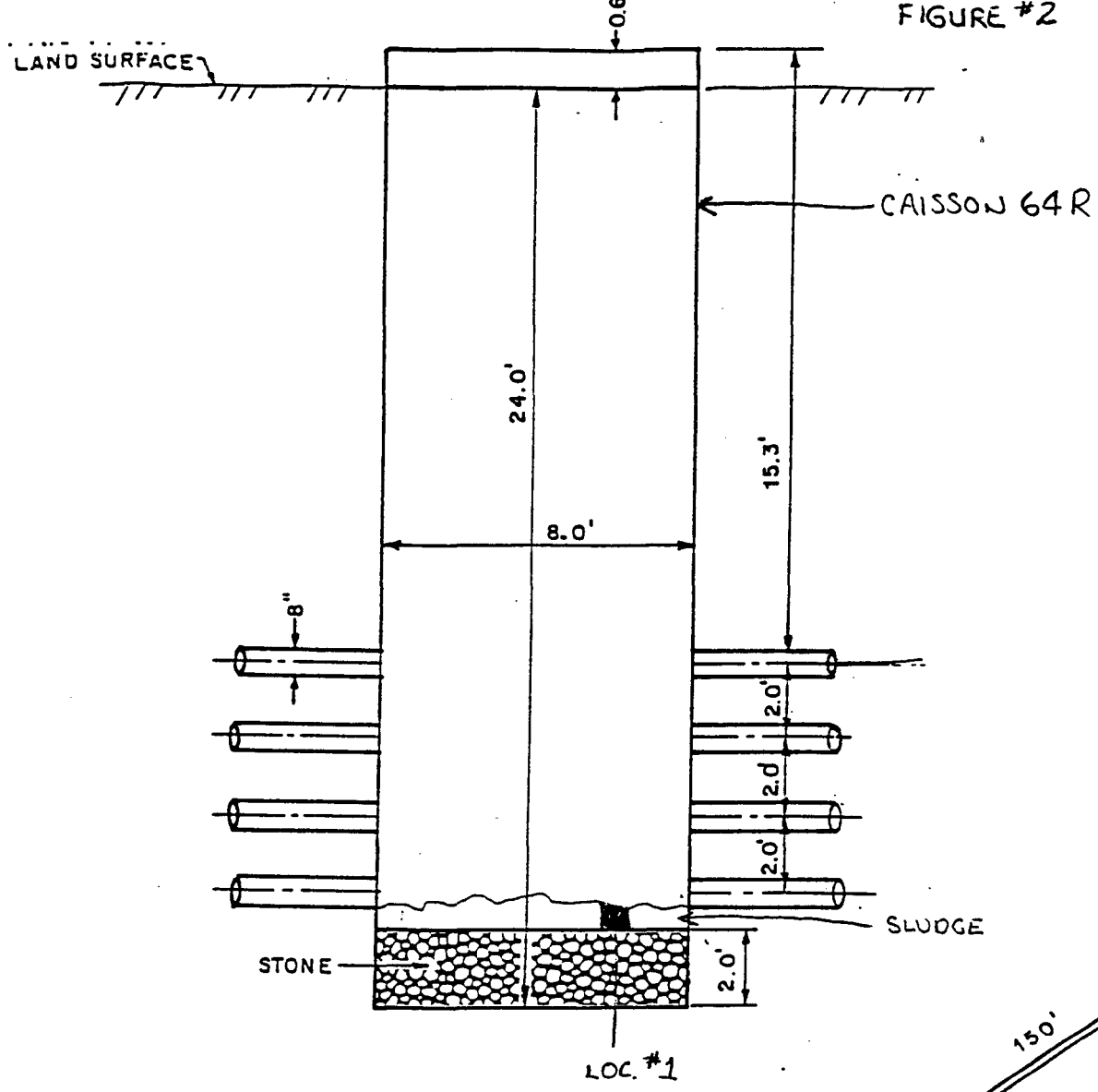


SITE LOCATION

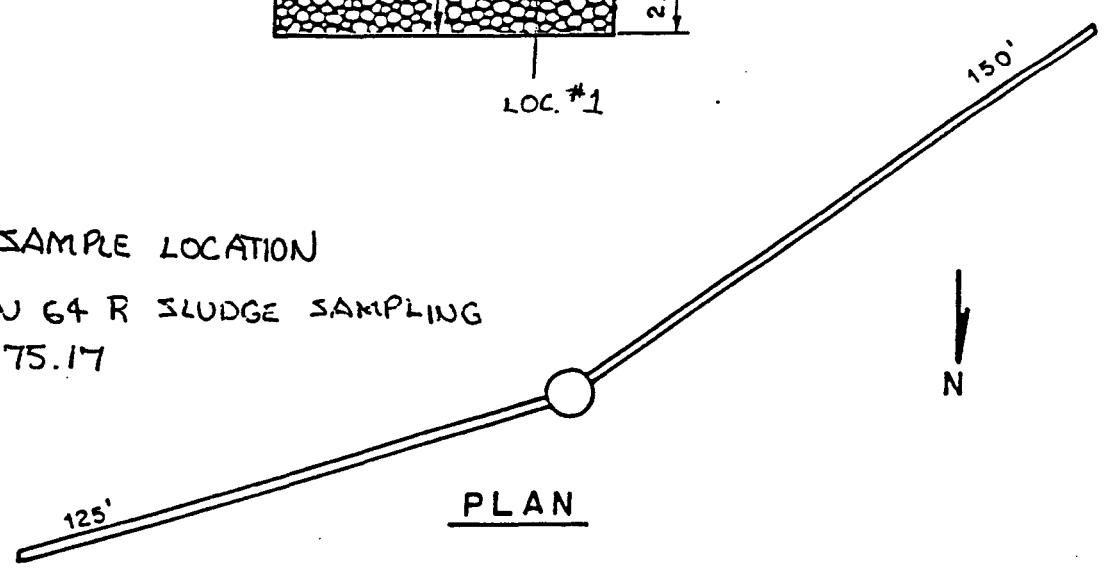
CAISSON 64 R SLUDGE SAMPLING

101-75-17

FIGURE #2



■ - SAMPLE LOCATION
 CAISSON 64 R SLUDGE SAMPLING
 101.75.17



PLAN

133720

APPENDIX J, SECTION B-11

DELIVERED TO
GRANT BOWMAN (GE)
8-26-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: 64R (South) Ground Water Treatment Plant
Soil Sampling

Date: 7-15-91
File No: 201-10-01
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB, VOC and TCLP sampling programs conducted South of Bldg 64R on 6-24-91. A drawing showing the sample locations is attached (see figure 1). Analytical Reports provided by QSG Laboratories and Alpha Analytical have also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
64R-TP-C1	7.7	1	SOIL	DISCRETE-GRAB	0-1'
TP-C2	3.8	2	SOIL	DISCRETE-GRAB	0-3'
6W-TP-C3	7.2	3	SOIL	DISCRETE-GRAB	0-2'
6W-TP-C4	4.0	4	SOIL	DISCRETE-GRAB	0-1'
6W-TP-C5	3.8	5	SOIL	DISCRETE-GRAB	0-2'

TCLP SAMPLING RESULTS (NO HERBICIDES OR PESTICIDES)

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
64R-TP-C6	(SEE ALPHA LAB REPORT)	1-5	SOIL	DISCRETE-GRAB	0-3'

VOC SAMPLING RESULTS METHOD 8240

LAB ID	VOC RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
64R-TP-C7	(SEE OBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-1'
64R-TP-C8	(SEE OBG LAB REPORT)	2	SOIL	DISCRETE-GRAB	0-3'
64R-TP-C9	(SEE OBG LAB REPORT)	3	SOIL	DISCRETE-GRAB	0-2'
64R-TP-C10	(SEE OBG LAB REPORT)	4	SOIL	DISCRETE-GRAB	0-1'

jjh



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C.

JOB NO. . 2887.026.517

DESCRIPTION 64R South Groundwater Treatment

B & B # 201.10.01

Soil Sampling, Pittsfield, MA

MATRIX: Soil

Date Analyzed 6-27-91

DATE COLLECTED 6-24-91

DATE RECEIVED 6-25-91

	Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS
64R-TP-C1	M6749	7.7	1260*	87.
64R-TP-C2	M6750	3.8	1260*	90.
64R-TP-C3	M6751	7.2	1260*	87.
64R-TP-C4	M6752	4.0	1260*	91.
64R-TP-C5	M6753	3.8	1260*	87.
64R-TP-C7	M6754	-	-	87.
64R-TP-C8	M6755	-	-	90.
64R-TP-C9	M6756	-	-	89.
64R-TP-C10	M6757	-	-	91.

Comments: *Altered Aroclor pattern.

Certification No.: NY034

Units: mg/kg dry weight

Authorized: *Anthony Curran*

Date: August 12, 1991



LABORATORIES, INC.

Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION 64R South Groundwater Treatment Plant B & B # 201.10.01
Pittsfield, MA MATRIX: Soil
 DATE COLLECTED 6-24-91 DATE RECEIVED 6-25-91 DATE ANALYZED See Below

DESCRIPTION:	64R-TP-C7	64R-TP-C8	64R-TP-C9	64R-TP-C10
Date Analyzed:	7-1-91	6-27-91	6-27-91	6-27-91
SAMPLE NO.:	M6754	M6755	M6756	M6757
Chloromethane	<11.	<11.	<11.	<11.
Bromomethane	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓
Methylene chloride	<6.	<6.	<6.	<5.
Acetone	<11.	11.	11.	<11.
Carbon disulfide	<6.	<6.	<6.	<5.
1,1-Dichloroethene	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓
1,2-Dichloroethene (total)	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓
2-Butanone	<11.	<11.	<11.	<11.
1,1,1-Trichloroethane	<6.	<6.	<6.	<5.
Carbon tetrachloride	<6.	<6.	<6.	<5.
Vinyl acetate	<11.	<11.	<11.	<11.
Bromodichloromethane	<6.	<6.	<6.	<5.
1,2-Dichloropropane	↓	↓	↓	↓
cis-1,3-Dichloropropene	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓
Benzene	↓	↓	↓	↓

Authorized:
 Date: August 12, 1991



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION 64R South Groundwater Treatment Plant B & B # 201.10.01
Pittsfield, MA MATRIX: Soil
 DATE COLLECTED 6-24-91 DATE RECEIVED 6-25-91 DATE ANALYZED See Below

DESCRIPTION: Date Analyzed:	64R-TP-C7 7-1-91	64R-TP-C8 6-27-91	64R-TP-C9 6-27-91	64R-TP-C10 6-27-91
SAMPLE NO.:	M6754	M6755	M6756	M6757
trans-1,3-Dichloropropene	<6.	<6.	<6.	<5.
Bromoform	<6.	<6.	<6.	<5.
4-Methyl-2-pentanone	<11.	<11.	<11.	<11.
2-Hexanone	<11.	<11.	<11.	<11.
Tetrachloroethene	<6.	<6.	<6.	<5.
1,1,2,2-Tetrachloroethane	↓	↓	↓	↓
Toluene	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓
Styrene	↓	↓	↓	↓
Xylene (total)	↓	↓	↓	↓

Comments:

Methodology: EPA Target Compound List By 8240, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

Page 2 of 2

Authorized: *Anthony...*

Date: August 12, 1991

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

Title: TCLP Analyses of 65R soil sample

Number: EL-91-030

Date: July 10, 1991

Test by: Alpha Analytical

Requested by: J DeSantis

Report by: WA Fessler

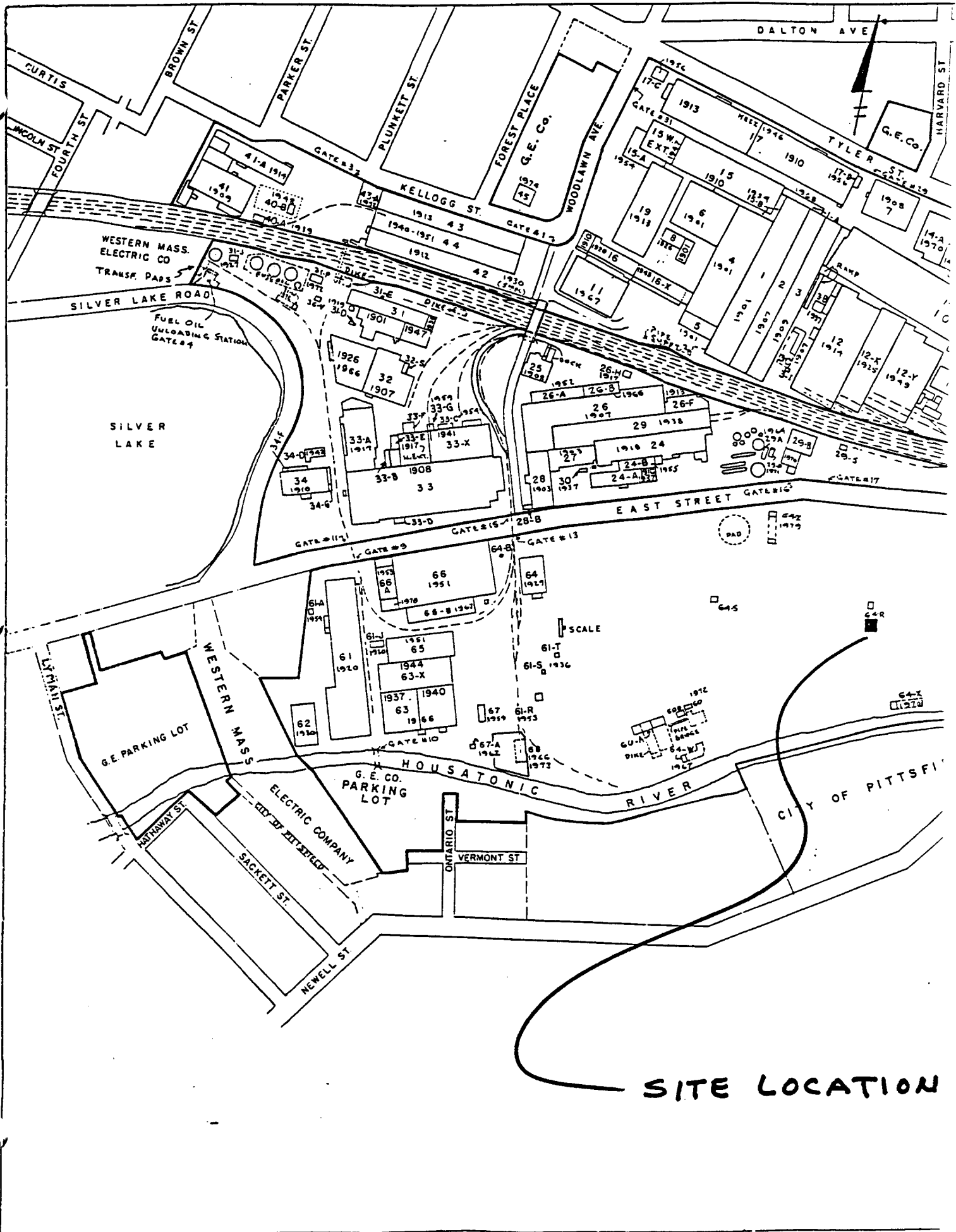
Approved: *[Signature]*
7/10/91

One sample of soil was sent to Alpha Analytical Laboratories for determination of toxicity characteristics listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

Sample 64R-TP-C6 did not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

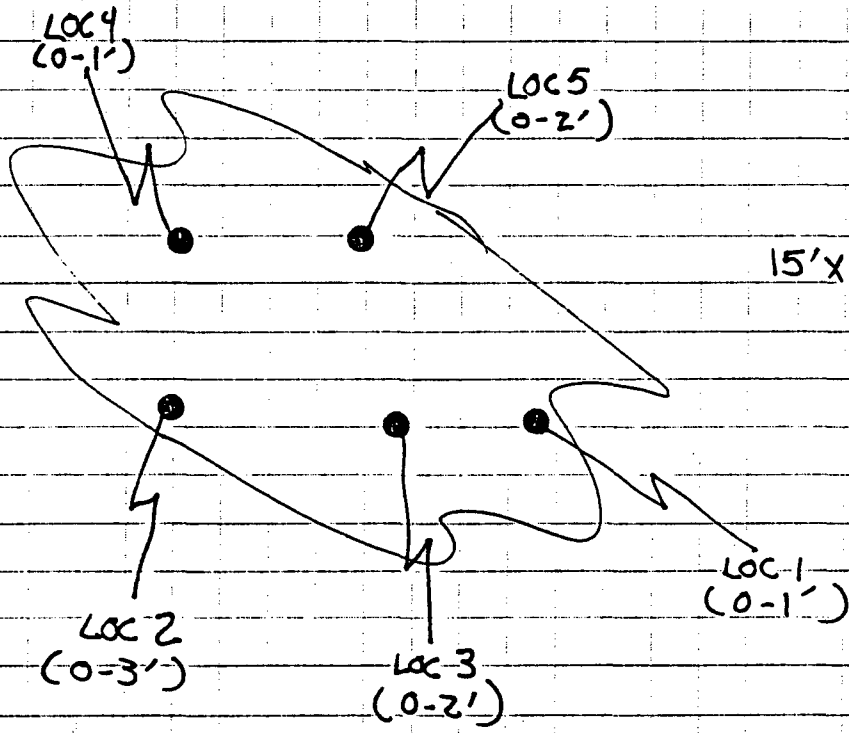
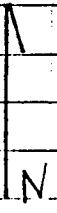
DISTRIBUTION: Manager, Environmental Laboratory C23
 J DeSantis 11-250



SITE LOCATION

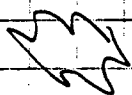

PROJECT	PROJ. NO.	BY	DATE	SHEET
64R (SOUTH) GROUND WATER TREATMENT PLANT SOIL SAMPLING	201-10-01	JJH	6-24-91	1 of 1

BLDG 64R



15' x 8' x 4' = 17.77 cu yds

64R (SOUTH) GROUNDWATER
TREATMENT PLANT SOIL SAMPLING
LEGEND (NOT TO SCALE)

-  - SOIL PILE
-  - SAMPLE LOCATION

APPENDIX J, SECTION B-12

DELIVERED TO
GRANT BOWMAN
(GE) 2-10-92

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Recharge Pond Soil & Sediment Sampling

Date: 10-29-91
File No: 101-75-17
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB and TCLP sampling program conducted at the Recharge Pond on 10-24-91. A drawing showing the sample location is attached (see figure 1). Analytical reports provided by IT Analytical and Alpha Analytical Laboratories have also been included.

PCB SAMPLING RESULTS METHOD 3080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
RCP-SS-C1	SEE IT LAB REPORT	1	SOIL (BANK)	DISCRETE-GRAB	0' - 1'
RCP-SS-C2	SEE IT LAB REPORT	1	SOIL (BANK)	DISCRETE-GRAB	1' - 2'
RCP-SS-C3	SEE IT LAB REPORT	2	SOIL (BANK)	DISCRETE-GRAB	0' - 1'
RCP-SS-C4	SEE IT LAB REPORT	2	SOIL (BANK)	DISCRETE-GRAB	1' - 2'
RCP-SS-C5	SEE IT LAB REPORT	3	SOIL (BANK)	DISCRETE-GRAB	0' - 1'
RCP-SS-C6	SEE IT LAB REPORT	3	SOIL (BANK)	DISCRETE-GRAB	1' - 2'
RCP-SS-C7	SEE IT LAB REPORT	4	SOIL (BANK)	DISCRETE-GRAB	0' - 1'
RCP-SS-C9	SEE IT LAB REPORT	4	SOIL (BANK)	DISCRETE-GRAB	1' - 2'
RCP-SS-C11	SEE IT LAB REPORT	5	SEDIMENT (POND)	DISCRETE-GRAB	0' - 1'

PCB SAMPLING RESULTS METHOD 3090

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
RCP-SS-C12	SEE IT LAB REPORT	5	SEDIMENT (POND)	DISCRETE-GRAB	1' - 2'
RCP-SS-C13	SEE IT LAB REPORT	6	SEDIMENT (POND)	DISCRETE-GRAB	0' - 1'
RCP-SS-C14	SEE IT LAB REPORT	6	SEDIMENT (POND)	DISCRETE-GRAB	1' - 2'
RCP-SS-C15	SEE IT LAB REPORT	7	SEDIMENT (POND)	DISCRETE-GRAB	0' - 1'
RCP-SS-C16	SEE IT LAB REPORT	7	SEDIMENT (POND)	DISCRETE-GRAB	1' - 2'
RCP-SS-C17	SEE IT LAB REPORT	8	SEDIMENT (POND)	DISCRETE-GRAB	0' - 1'
RCP-SS-C18	SEE IT LAB REPORT	8	SEDIMENT (POND)	DISCRETE-GRAB	1' - 2'
RCP-SS-C19	SEE IT LAB REPORT	9	SEDIMENT (POND)	DISCRETE-GRAB	0' - 1'
RCP-SS-C20	SEE IT LAB REPORT	9	SEDIMENT (POND)	DISCRETE-GRAB	1' - 2'

TCLP SAMPLING RESULTS

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
RCP-SS-C9	SEE ALPHA LAB REPORT	1,2,3,4	SOIL (BANK)	COMPOSITE-GRAB	0' - 1'
RCP-SS-C10	SEE ALPHA LAB REPORT	1,2,3,4	SOIL (BANK)	COMPOSITE-GRAB	1' - 2'
RCP-SS-C21	SEE ALPHA LAB REPORT	5,6,7,8,9	SEDIMENT (POND)	COMPOSITE-GRAB	0' - 1'
RCP-SS-C22	SEE ALPHA LAB REPORT	5,6,7,8,9	SEDIMENT (POND)	COMPOSITE-GRAB	1' - 2'

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C1	RR8558	0.05 U	0.21 U	1.8	1.8

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C2	RR8559	0.13 U	0.40 U	18	18

Collection Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C3	RR8560	0.29 U	1.2 U	44	44

Extraction Date: 11/01/91
Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C4	RR8561	0.31 U	1.2 U	17	17

Extraction Date: 11/01/91
Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C5	RR8562	0.52 U	2.1 U	38	38

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	Aroclor 1016, 1232, 1242† and/or 1248	Aroclor <u>1254</u>	Aroclor <u>1260</u>	Total <u>Aroclors</u>
RCP-SS-C6	RR8563	0.53 U	2.1 U	44	44

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

ent Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C7	RR8564	0.10 U	0.42 U	10	10

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C8	RR8565	0.05 U	0.10 U	1.2 *	1.2

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- * - Sample Exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C11	RR8566	58 *	500 *	1,100 *	1,700

Extraction Date: 11/01/91
Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- * - Sample exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

ent Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	Aroclor 1016, 1232, 1242† and/or 1248	Aroclor <u>1254</u>	Aroclor <u>1260</u>	Total Aroclors
RCP-SS-C12	RR8567	51 *	430 *	1,000 *	1,500

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- * - Sample exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C13	RR8568	71 *	57 U	1,800 *	1,900

Extraction Date: 11/01/91
Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- * - Sample exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C14	RR8569	12 U	16 U	210	210

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

ent Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C15	RR8570	100 *	100 U	1,900 *	2,000

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

* - Samples exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C16	RR8571	1.9 U	8.0 U	66 *	66

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- * - Sample Exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C17	RR8572	63 *	21 U	870 *	930

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- * - Samples exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C18	RR8573	9.6 U	52 U	280	280

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

General Electric Company

December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C19	RR8574	21 *	17 U	530	550

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

- † - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
- U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
- * - Sample Exhibits alteration of standard Aroclor pattern.

General Electric Company
December 31, 1991

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil & Sediment Sampling/101.75.17

Job Number: GECP 49807

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Aroclor 1016, 1232, 1242† and/or 1248</u>	<u>Aroclor 1254</u>	<u>Aroclor 1260</u>	<u>Total Aroclors</u>
RCP-SS-C20	RR8575	4.0 U	6.9 U	98	98

Extraction Date: 11/01/91

Analysis Date: 11/06 and 11/07/91

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analysis of Recharge Pond Soil and
Sediment
Test by: Alpha Analytical
Report by: WA Fessler

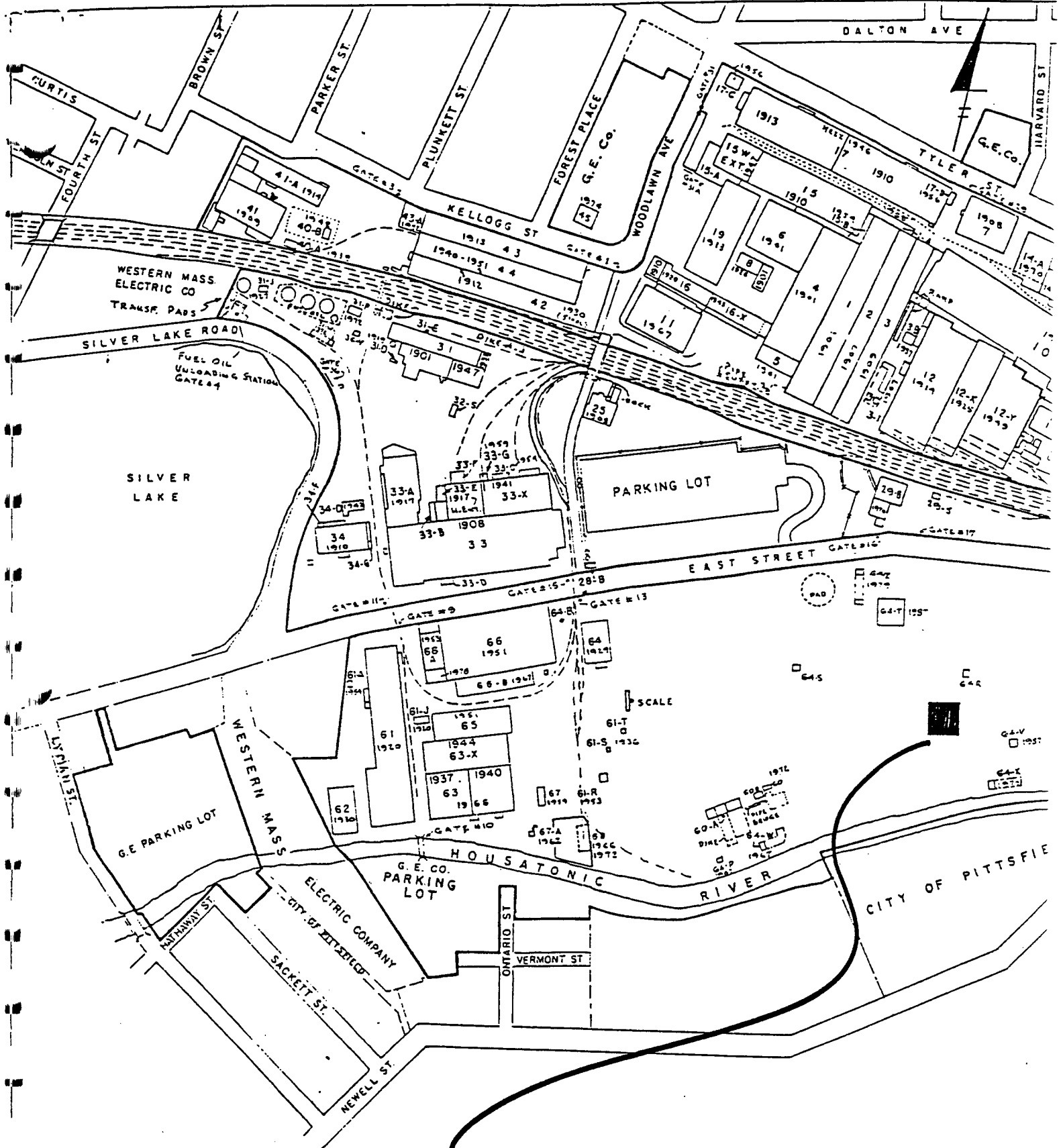
Number: EL-91-066
Date: November 14, 1991
Requested by: JG Ruebesam
Approved: MAX
11/14/91

Four samples of soil and sediment from the recharge pond were sent to Alpha Analytical Laboratories for determination of toxicity characteristics listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

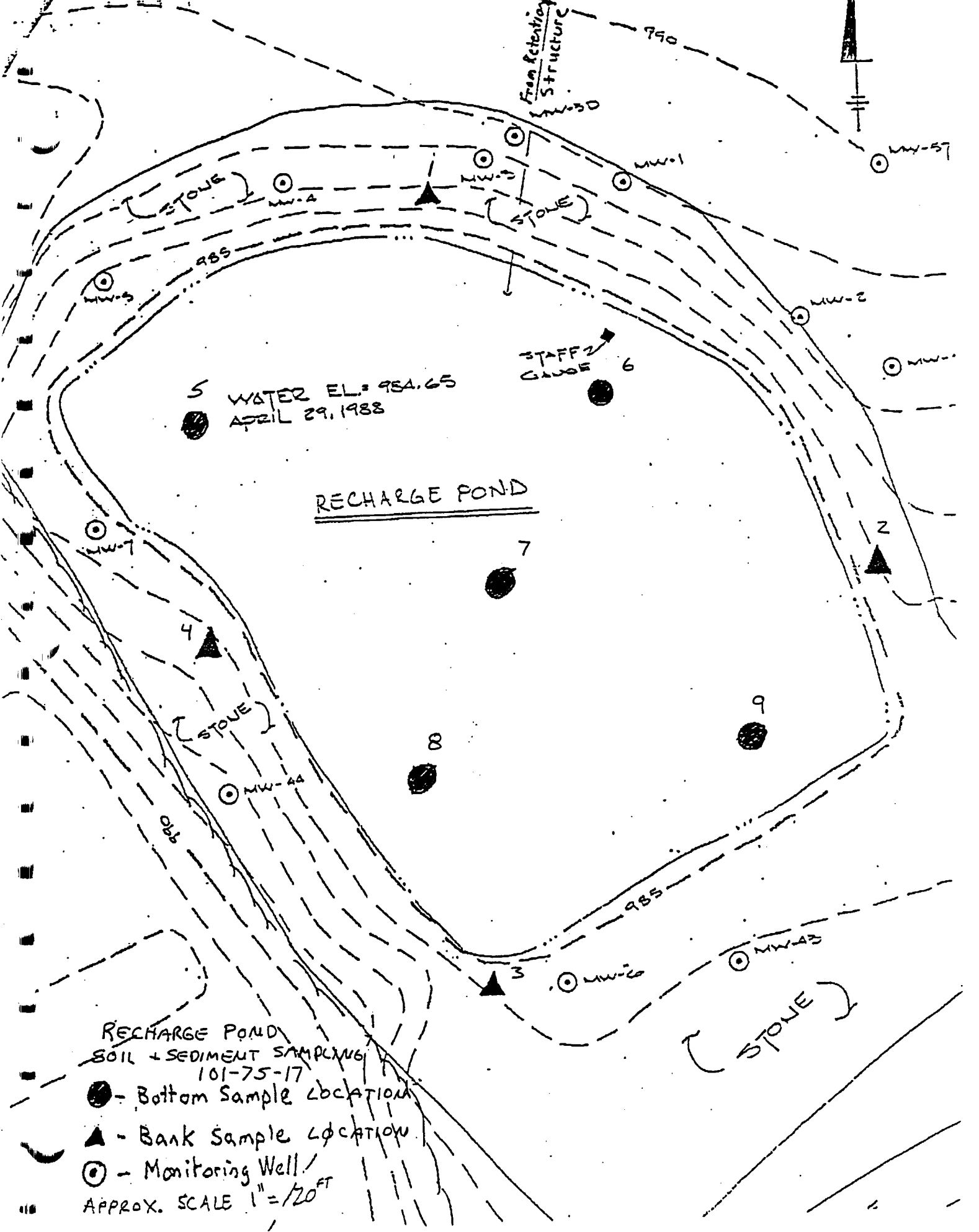
None of the samples showed the characteristic of toxicity.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
JG Ruebesam 11-250



SITE LOCATION



5 WATER EL. = 984.65
APRIL 29, 1988

RECHARGE POND

- RECHARGE POND
SOIL + SEDIMENT SAMPLING
101-75-17
- - Bottom Sample Location
 - ▲ - Bank Sample Location
 - - Monitoring Well
- APPROX. SCALE 1" = 20 FT

DELIVERED TO GRANT
BOWMAN (GE) 10-16-89

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Robert W. Rhoades
Re: Recharge Pond Soil Sampling

Date: 9/18/89
File No: 101-60-05
cc: Grant Bowman (GE)
Robert Goldman (B&B)

The following is a summary of the sample results for the sampling program conducted on 09/12/89 from a soil pile that was generated from a trench excavation located on the south side of the Recharge Pond. A drawing showing the location is attached (see Figure 1). An Analytical Report provided by I.T. Analytical Services has also been included.

PCB SAMPLING RESULTS

LAB ID	SAMPLE RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE
RP-C1	SEE I.T. CERTIFICATE OF ANALYSIS	1	SOIL	DISCRETE-GRAB

RWR/bee

CERTIFICATE OF ANALYSIS

Biasland and Bouck Engineering
6723 Towpath Road, Box 66
Syracuse, NY 13214
ATTN: Bob Rhoades

September 18, 1989

Job Number: BLB 44121

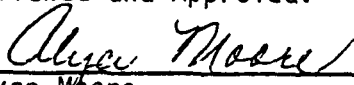
P.O. Number: 101-60-05

This is the Certificate of Analysis for the following sample:

Client Project ID: Recharge Pond Soil Sampling
Date Received by Lab: 09/13/89
Number of Samples: One (1)
Sample Type: Solid

Due to rush request, samples were prepared and analyzed on an as received basis.

Reviewed and Approved:


Alyce Moore
Laboratory Manager

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories
American Association for Laboratory Accreditation

Blasland and Bouck Engineering
September 18, 1989

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil Sampling

Job Number: BLB 44121

PESTICIDES AND PCB's - PRIORITY POLLUTANT ANALYSIS

Results in $\mu\text{g}/\text{kg}$ (ppb)

Sample Matrix: Soil

Client Sample ID: Method Blank
Lab Sample ID: BL4782

<u>Compound</u>		<u>Compound</u>	
aldrin	400 U	endrin aldehyde	800 U
α -BHC	400 U	heptachlor	400 U
β -BHC	400 U	heptachlor epoxide	400 U
γ -BHC (lindane)	400 U	PCB-(Aroclor)-1242	800 U
δ -BHC	400 U	PCB-(Aroclor)-1254	800 U
chlordan	800 U	PCB-(Aroclor)-1221	800 U
4,4'-DDT	400 U	PCB-(Aroclor)-1232	800 U
4,4'-DDE	400 U	PCB-(Aroclor)-1248	800 U
4,4'-DDD	400 U	PCB-(Aroclor)-1260	800 U
dieldrin	400 U	PCB-(Aroclor)-1016	800 U
α -endosulfan	400 U	toxaphene	800 U
β -endosulfan	400 U		
endosulfan sulfate	400 U		
endrin	400 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date of Extraction: 09/14/89
Date of Analysis: 09/14/89

Blasland and Bouck Engineering
September 18, 1989

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil Sampling

Job Number: BLB 44121

PESTICIDES AND PCB's - PRIORITY POLLUTANT ANALYSIS

Results in $\mu\text{g}/\text{kg}$ (ppb)

Sample Matrix: Soil

Client Sample ID: RP-C1
Lab Sample ID: JJ5932

<u>Compound</u>		<u>Compound</u>	
aldrin	400 U	endrin aldehyde	800 U
α -BHC	400 U	heptachlor	400 U
β -BHC	400 U	heptachlor epoxide	400 U
γ -BHC (lindane)	400 U	PCB-(Aroclor)-1242	800 U
δ -BHC	400 U	PCB-(Aroclor)-1254	800 U
chlordan	800 U	PCB-(Aroclor)-1221	800 U
4,4'-DDT	810 U*	PCB-(Aroclor)-1232	800 U
4,4'-DDE	400 U	PCB-(Aroclor)-1248	800 U
4,4'-DDD	400 U	PCB-(Aroclor)-1260	9,000
dieldrin	400 U	PCB-(Aroclor)-1016	800 U
α -endosulfan	400 U	toxaphene	800 U
β -endosulfan	400 U		
endosulfan sulfate	560 U*		
endrin	650 U*		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

* - Elevated detection limits due to the presence of Aroclor 1260.

Date of Extraction: 09/14/89
Date of Analysis: 09/14/89

Blasland and Bouck Engineering
September 18, 1989

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil Sampling

Job Number: BLB 44121

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in $\mu\text{g}/\text{kg}$ (ppb)

Sample Matrix: Soil

Client Sample ID: Method Blank
Lab Sample ID: EB0914

Compound

Compound

acrolein	10 U	1,1-dichloroethene	5 U
acrylonitrile	10 U	trans-1,2-dichloroethene	5 U
benzene	5 U	1,2-dichloropropane	5 U
bromodichloromethane	5 U	cis-1,3-dichloropropene	5 U
bromoform	5 U	trans-1,3-dichloropropene	5 U
bromomethane	10 U	ethyl benzene	5 U
carbon tetrachloride	5 U	methylene chloride	2 J
chlorobenzene	5 U	1,1,2,2-tetrachloroethane	5 U
chloroethane	10 U	tetrachloroethene	5 U
2-chloroethylvinyl ether	10 U	toluene	5 U
chloroform	5 U	1,1,1-trichloroethane	5 U
chloromethane	10 U	1,1,2-trichloroethane	5 U
dibromochloromethane	5 U	trichloroethene	5 U
1,1-dichloroethane	5 U	vinyl chloride	10 U
1,2-dichloroethane	5 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

J - Indicates an estimated value less than the detection limit.

Date of Analysis: 09/14/89

Blasland and Bouck Engineering
September 18, 1989

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil Sampling

Job Number: BLB 44121

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in $\mu\text{g}/\text{kg}$ (ppb)

Sample Matrix: Soil

Client Sample ID: RP-C1
Lab Sample ID: JJ5931

Compound

Compound

acrolein	10 U	1,1-dichloroethene	5 U
acrylonitrile	10 U	trans-1,2-dichloroethene	5 U
benzene	8	1,2-dichloropropane	5 U
bromodichloromethane	5 U	cis-1,3-dichloropropene	5 U
bromoform	5 U	trans-1,3-dichloropropene	5 U
bromomethane	10 U	ethyl benzene	6
carbon tetrachloride	5 U	methylene chloride	7
chlorobenzene	7	1,1,2,2-tetrachloroethane	5 U
chloroethane	10 U	tetrachloroethene	5 U
2-chloroethylvinyl ether	10 U	toluene	2 J
chloroform	5 U	1,1,1-trichloroethane	5 U
chloromethane	10 U	1,1,2-trichloroethane	5 U
dibromochloromethane	5 U	trichloroethene	5 U
1,1-dichloroethane	5 U	vinyl chloride	10 U
1,2-dichloroethane	5 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

J - Indicates an estimated value less than the detection limit.

Date of Analysis: 09/14/89

Blasland and Bouck Engineering
September 18, 1989

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: Recharge Pond Soil Sampling

Job Number: BLB 44121

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	VOLATILE		
	Toluene-D8 (81-117%)*	BFB (74-121%)*	1,2 Dichloroethane-D4 (70-121%)*
Method Blank	98	91	99
RP-C1	86	76	81

*Values in parenthesis represent USEPA contract required QC limits.

Client Project ID: Recharge Pond Soil Sampling

Job Number: BLB 44121

BASE/NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: Method Blank
Lab Sample ID: BL4781

Compound

Compound

acenaphthene	1,000 U	3,3'-dichlorobenzidine	2,000 U
acenaphthylene	1,000 U	diethyl phthalate	1,000 U
anthracene	1,000 U	dimethyl phthalate	1,000 U
benzidine	5,000 U	2,4-dinitrotoluene	1,000 U
benzo(a)anthracene	1,000 U	2,6-dinitrotoluene	1,000 U
benzo(b)fluoranthene	1,000 U	di-n-octylphthalate	1,000 U
benzo(k)fluoranthene	1,000 U	1,2-diphenylhydrazine ¹	1,000 U
benzo(a)pyrene	1,000 U	fluoranthene	1,000 U
benzo(g,h,i)perylene	1,000 U	fluorene	1,000 U
benzyl butyl phthalate	1,000 U	hexachlorobenzene	1,000 U
bis(2-chloroethoxy)methane	1,000 U	hexachlorobutadiene	1,000 U
bis(2-chloroethyl)ether	1,000 U	hexachlorocyclopentadiene	1,000 U
bis(2-chloroisopropyl)ether	1,000 U	hexachloroethane	1,000 U
bis(2-ethylhexyl)phthalate	330 J	indeno(1,2,3-cd)pyrene	1,000 U
4-bromophenyl phenyl ether	1,000 U	isophorone	1,000 U
2-chloronaphthalene	1,000 U	naphthalene	1,000 U
4-chlorophenyl phenyl ether	1,000 U	nitrobenzene	1,000 U
chrysene	1,000 U	N-nitrosodimethylamine	1,000 U
dibenzo(a,h)anthracene	1,000 U	N-nitrosodi-n-propylamine	1,000 U
di-n-butylphthalate	1,000 U	N-nitrosodiphenylamine ²	1,000 U
1,2-dichlorobenzene	1,000 U	phenanthrene	1,000 U
1,3-dichlorobenzene	1,000 U	pyrene	1,000 U
1,4-dichlorobenzene	1,000 U	1,2,4-trichlorobenzene	1,000 U

¹ Screened for as Azobenzene

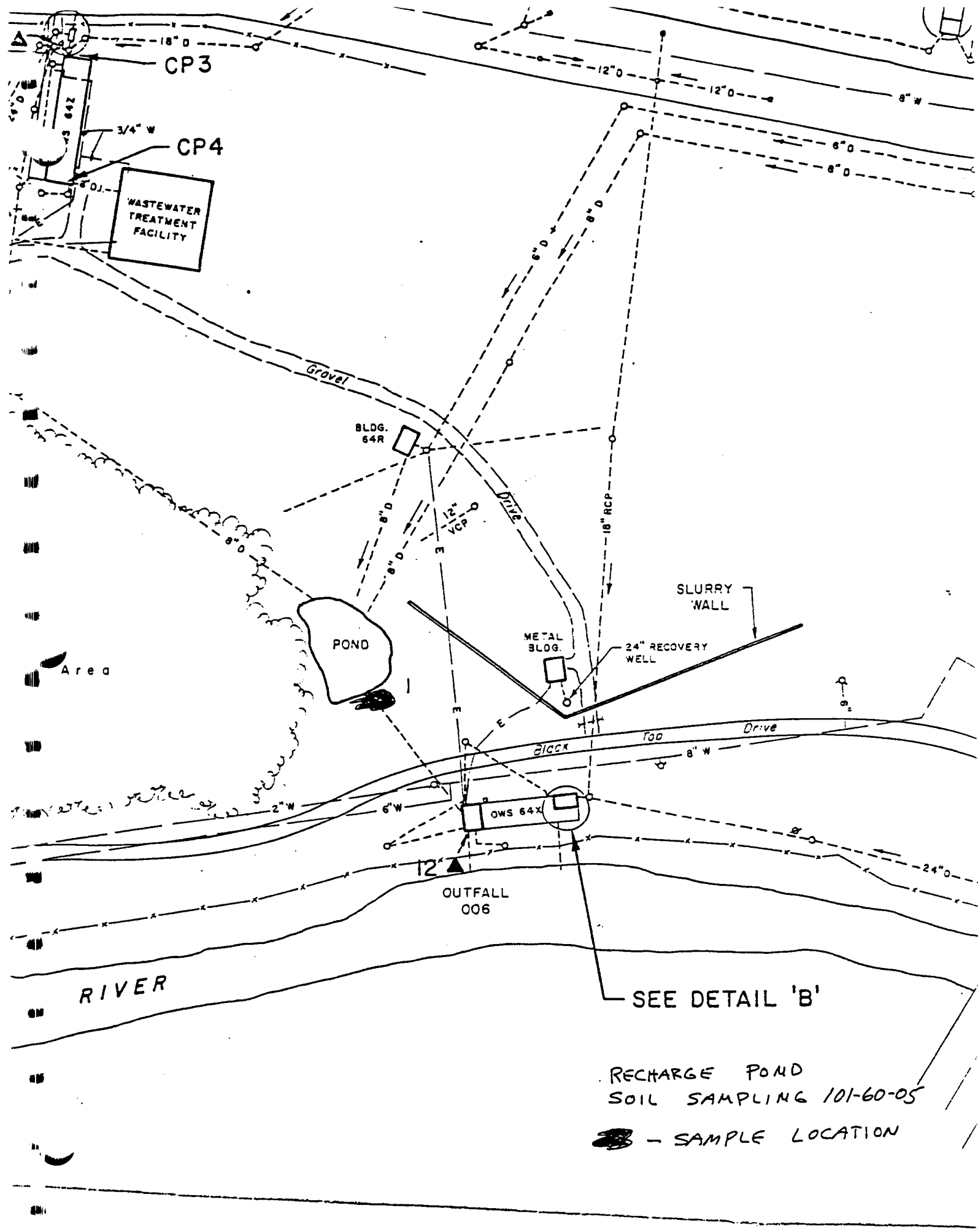
² Detected as Diphenylamine

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

J - Indicates an estimated value less than the detection limit.

Date of Extraction: 09/14/89

Date of Analysis: 09/14/89



CP3

CP4

WASTEWATER
TREATMENT
FACILITY

Gravel

BLDG.
64R

POND

METAL
BLDG.

SLURRY
WALL

24" RECOVERY
WELL

OWS 64X

OUTFALL
006

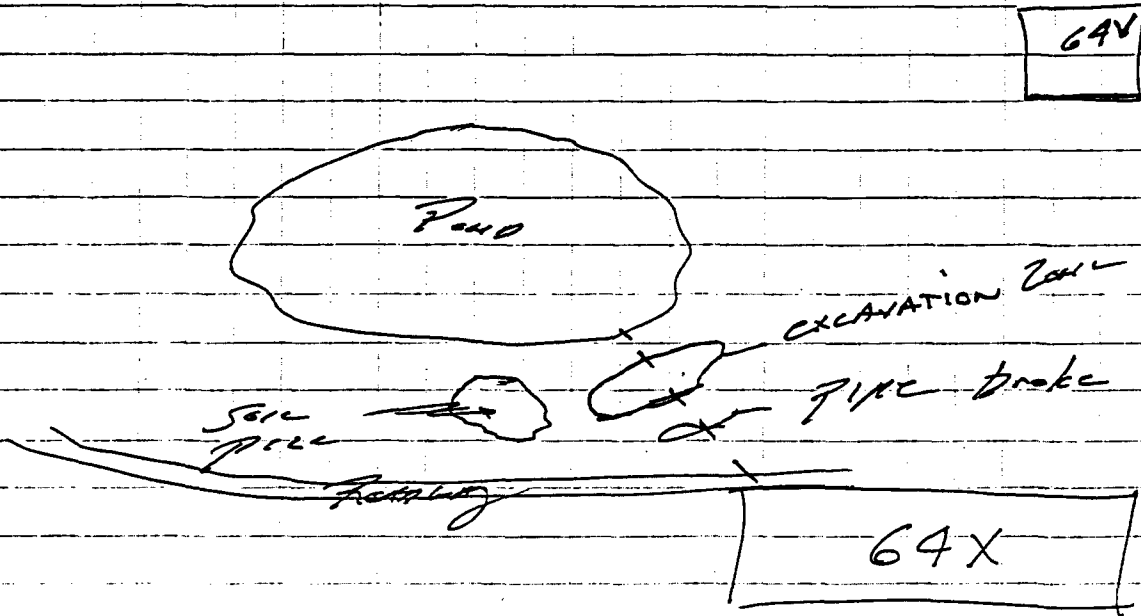
RIVER

SEE DETAIL 'B'

RECHARGE POND
SOIL SAMPLING 101-60-05

 - SAMPLE LOCATION

SUBJECT <i>East St Area II</i>	PROJ. NO. <i>101.60.05</i>	BY <i>per</i>	DATE <i>7/16/83</i>	SHEET
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Re pole 64X to 64V

plug pipe

Pipe to be removed per Jim Moss

DELIVERED TO
GRANT BOWMAN (GE)
3-5-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Retention Pond Drum Sampling

Date: 2-15-91
File No: 101-75-12
cc: Mark Phillips (GE)
Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside Bldg 100A on 2-11-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by Alpha Analytical Laboratories has also been included.

TCLP SAMPLING RESULTS

LAB ID	TOTAL PCB TCLP PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
RET-POND-C1	SEE ALPHA ANALYTICAL LAB REPORT	1	SOIL	DISCRETE-BRAB	0'-1'

jhh

ALPHA ANALYTICAL LABORATORIES

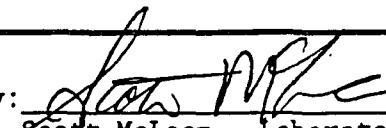
Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

CERTIFICATE OF ANALYSIS

Client: General Electric Laboratory Job Number: 910832
Address: 100 Woodlawn Avenue Invoice Number: 19024
Pittsfield, MA 01201 Date Received: 02/12/91
Attn: Mark Phillips Date Reported: 02/26/91
Client Designation: Project# 101-75-12 Delivery Method: Alpha Courier

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
910832.1	RET-POND-CL	N/A
910832.1S	RET-POND-CL (Spike Recovery)	N/A

Authorized by: 
Scott McLean - Laboratory Director

cp

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 910832.1 Date Received: 02/12/91

Sample Matrix: Solid Date Reported: 02/26/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar & two VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	----	-----	---	13	1311	02/13/91	-----
RCRA 8 Metals							
Arsenic	ND	mg/L	2.5	1	6010	----	02/19/91
Barium	ND	mg/L	50	1	6010	----	02/19/91
Cadmium	ND	mg/L	0.5	1	6010	----	02/19/91
Chromium	ND	mg/L	2.5	1	6010	----	02/19/91
Lead	ND	mg/L	2.5	1	6010	----	02/19/91
Mercury	ND	mg/L	0.1	1	7470	----	02/19/91
Selenium	ND	mg/L	0.5	1	7740	----	02/19/91
Silver	ND	mg/L	2.5	1	6010	----	02/19/91
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	100 (200)	1	8270	----	02/19/91
2,4-Dinitrotoluene	ND	mg/L	0.07	1	8270	----	02/19/91
Hexachlorobenzene	ND	mg/L	0.07	1	8270	----	02/19/91
Hexachloro-1,3-butadiene	ND	mg/L	0.25	1	8270	----	02/19/91
Hexachloroethane	ND	mg/L	1.5	1	8270	----	02/19/91
Nitrobenzene	ND	mg/L	1.0	1	8270	----	02/19/91
Pentachlorophenol	ND	mg/L	50	1	8270	----	02/19/91
2,4,5-Trichlorophenol	ND	mg/L	200	1	8270	----	02/19/91
2,4,6-Trichlorophenol	ND	mg/L	1.0	1	8270	----	02/19/91
Pyridine	ND	mg/L	25	1	8270	----	02/19/91

<u>Acid/Base/Neutral Extractables</u>	<u>% Surrogate Recovery</u>
2-Fluorophenol	39%
Phenol-d6	36%
Nitrobenzene-d5	91%
2-Fluorobiphenyl	80%
2,4,6-Tribromophenol	44%
4-Terphenyl-d14	37%

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 910832.1 Date Received: 02/12/91

Sample Matrix: Solid Date Reported: 02/26/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar & two VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	----	-----	---	13	1311	02/15/91	-----
Volatile Organics							
Benzene	ND	mg/L	0.25	1	8240	----	02/26/91
Carbon tetrachloride	ND	mg/L	0.25	1	8240	----	02/26/91
Chlorobenzene	ND	mg/L	50	1	8240	----	02/26/91
Chloroform	ND	mg/L	3	1	8240	----	02/26/91
1,4-Dichlorobenzene	ND	mg/L	3.8	1	8240	----	02/26/91
1,2-Dichloroethane	ND	mg/L	0.25	1	8240	----	02/26/91
1,1-Dichloroethene	ND	mg/L	0.35	1	8240	----	02/26/91
Tetrachloroethene	ND	mg/L	0.35	1	8240	----	02/26/91
Trichloroethene	ND	mg/L	0.25	1	8240	----	02/26/91
Vinyl chloride	ND	mg/L	0.1	1	8240	----	02/26/91
Methyl ethyl ketone	ND	mg/L	100	1	8240	----	02/26/91

<u>Volatile Organics</u>	<u>% Surrogate Recovery</u>
1,2-Dichloroethane-d4	86%
Toluene-d8	103%
4-Bromofluorobenzene	86%

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 910832.1S Date Received: 02/12/91

Sample Matrix: Solid Date Reported: 02/26/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar & two VOA vials

Analysis Requested: Analysis as listed below

<u>PARAMETER</u>	<u>%RECOVERY</u>
TCLP RCRA 8 Metals	
Arsenic	111%
Barium	101%
Cadmium	80%
Chromium	87%
Lead	137%
Mercury	100%
Selenium	94%
Silver	83%
Acid/Base/Neutral Extractables	
Total Cresol	62%
2,4-Dinitrotoluene	103%
Hexachlorobenzene	89%
Hexachloro-1,3-butadiene	64%
Hexachloroethane	73%
Nitrobenzene	98%
Pentachlorophenol	6%
2,4,5-Trichlorophenol	61%
2,4,6-Trichlorophenol	61%
Pyridine	49%

<u>Acid/Base/Neutral Extractables</u>	<u>% Surrogate Recovery</u>
2-Fluorophenol	62%
Phenol-d6	61%
Nitrobenzene-d5	103%
2-Fluorobiphenyl	78%
2,4,6-Tribromophenol	40%
4-Terphenyl-d14	50%

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 910832.1S Date Received: 02/12/91

Sample Matrix: Solid Date Reported: 02/26/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar & two VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

<u>PARAMETER</u>	<u>%RECOVERY</u>
Volatile Organics	
Benzene	99%
Carbon tetrachloride	104%
Chlorobenzene	99%
Chloroform	83%
1,2-Dichloroethane	91%
1,1-Dichloroethene	100%
Tetrachloroethene	104%
Trichloroethene	102%
Methyl ethyl ketone	113%

<u>Volatile Organics</u>	<u>% Surrogate Recovery</u>
1,2-Dichloroethane-d4	86%
Toluene-d8	98%
4-Bromofluorobenzene	91%

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES
ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS
FOR ORGANICS

FRACTION	MATRIX SPIKE COMPOUND	WATER	SOIL/SEDIMENT
VOA	1,1-Dichloroethene	61-145 %	59-172 %
VOA	Trichloroethene	71-120 %	62-137 %
VOA	Chlorobenzene	75-130 %	60-133 %
VOA	Toluene	76-125 %	59-139 %
VOA	Benzene	76-127 %	66-142 %
BN	1,2,4-Trichlorobenzene	39-98 %	38-107 %
BN	Acenaphthene	46-118 %	31-137 %
BN	2,4-Dinitrotoluene	24-96 %	28-89 %
BN	Di-n-butyl phthalate	11-117 %	29-135 %
BN	Pyrene	26-127 %	35-142 %
BN	N-nitros-di-n-propylamine	41-116 %	41-126 %
BN	1,4-Dichlorobenzene	36-97 %	28-104 %
Acid	Pentachlorophenol	9-103 %	17-109 %
Acid	Phenol	12-89 %	26-90 %
Acid	2-Chlorophenol	27-123 %	25-102 %
Acid	4-Chloro-3-methylphenol	23-97 %	26-103 %
Acid	4-Nitrophenol	10-80 %	11-114 %
Pest.	Lindane	56-123 %	46-127 %
Pest.	Heptachlor	40-131 %	35-130 %
Pest.	Aldrin	40-120 %	34-132 %
Pest.	Dieldrin	52-126 %	31-134 %
Pest.	Endrin	56-121 %	42-139 %
Pest.	4,4'-DDT	38-127 %	23-134 %

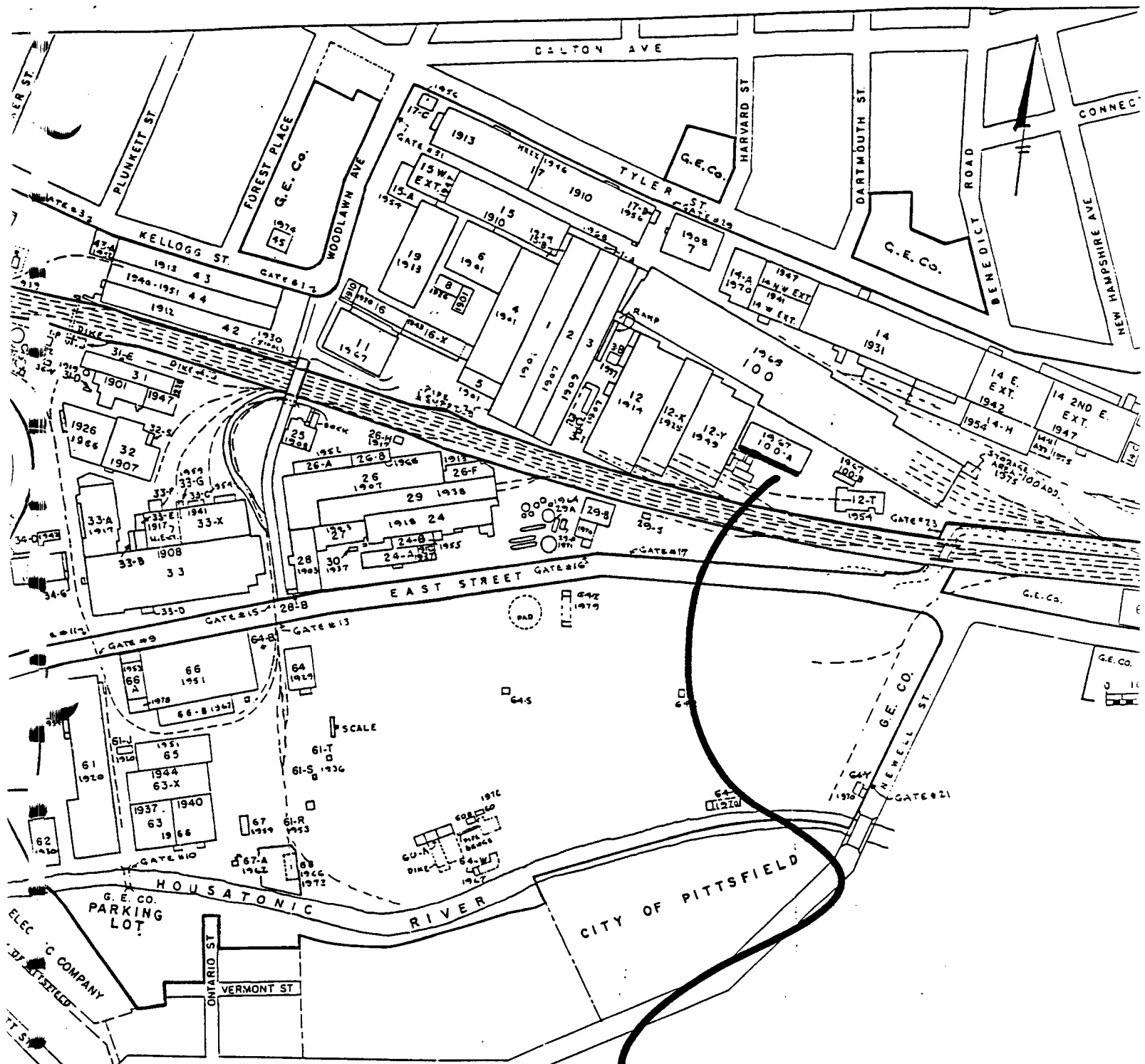
ALPHA ANALYTICAL LABORATORIES
ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS
FOR INORGANICS

PARAMETER GROUP	WATER	SOIL
Metals	75-125 %	60-140 %
Wet Chemistry	70-130 %	N/A

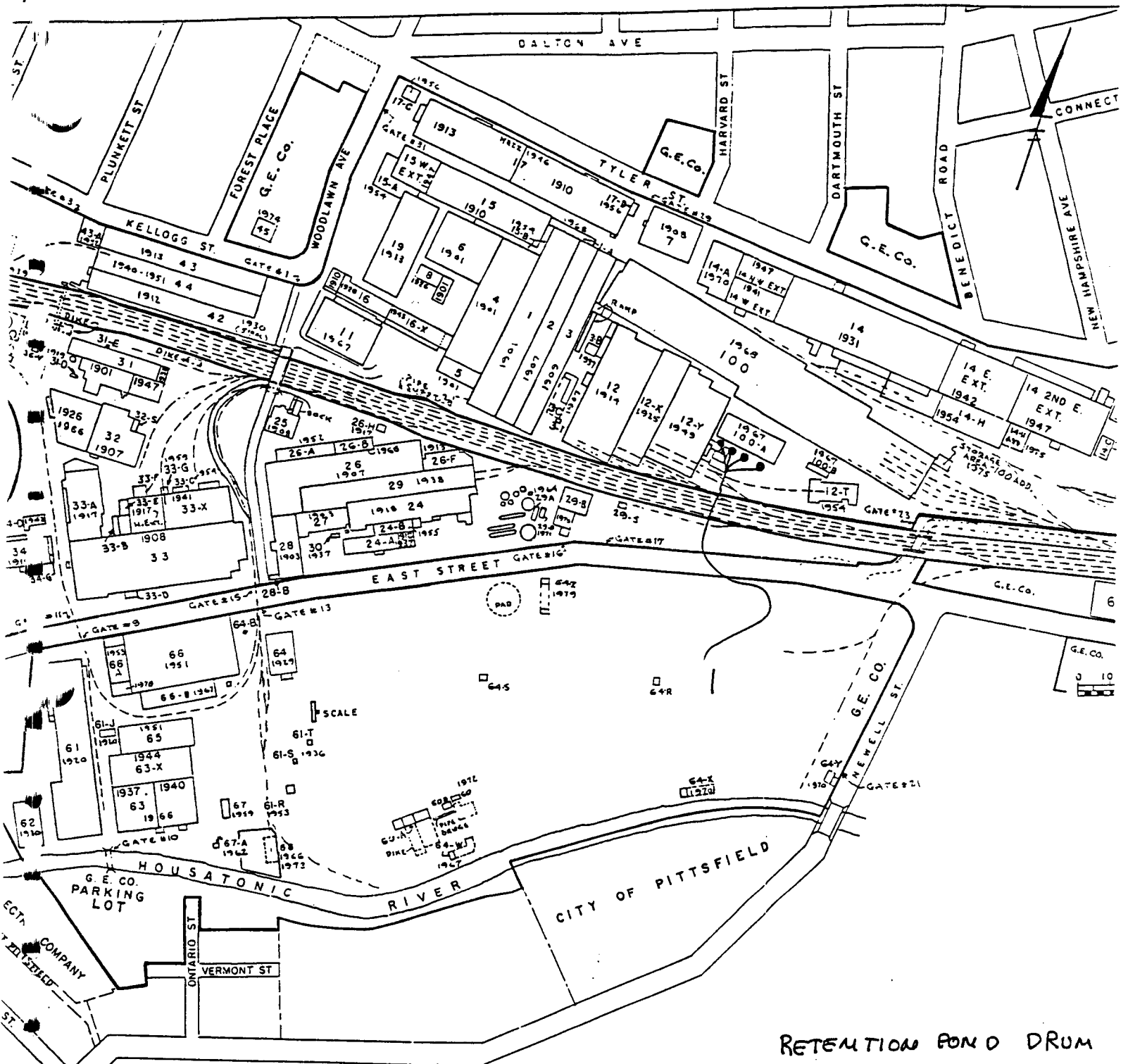
ALPHA ANALYTICAL LABORATORIES

ACCEPTABLE SURROGATE SPIKE RECOVERY LIMITS

FRACTION	SURROGATE COMPOUND	LOW/MEDIUM WATER	LOW/MEDIUM SOIL/SEDIMENT
VOA	Toluene-d ₈	88-110 %	81-117 %
VOA	4-Bromofluorobenzene	86-115 %	74-121 %
VOA	1,2-Dichloroethane-d ₄	76-114 %	70-121 %
BNA	Nitrobenzene-d ₅	35-114 %	23-120 %
BNA	2-Fluorobiphenyl	43-116 %	30-115 %
BNA	p-Terphenyl-d ₁₄	33-141 %	18-137 %
BNA	Phenol-d ₅	10-94 %	24-113 %
BNA	2-Fluorophenol	21-100 %	25-121 %
BNA	2,4,6-Tribromophenol	10-123 %	19-122 %
Pest.	Dibutylchloroendate	24-154 %	20-150 %



SITE LOCATION



RETENTION POND DRUM
 SAMPLING
 101-75-12
 ● - SAMPLE LOCATION

APPENDIX J, SECTION B-13

BLASLAND AND BOUCK ENGINEERS P.C.

GRANT BOWMAN
(GE) 1-18-90
DELIVERED TO
KRISTEN BEGOR
LGE 4-6-90

Files

Re: Robert W. Rhoades
Re: Bldg.64X Pipeline Soil Sampling (Area 2)

Date: 12/27/89
File No: 10-75-12
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted on 12/20/89 outside Bldg.64X. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM (SEE NOTE)	SAMPLE LOCATION	SAMPLE MATERIAL	NUMBER OF SAMPLES IN COMPOSITE	SAMPLE TYPE	SAMPLE DEPTH
64X-C1	1.9	1,2,3,4,5	SOIL	5	COMPOSITE-GRAB	0'-2'
64X-C2	16	6,7,8,9,10	SOIL	5	COMPOSITE-GRAB	0'-2'
64X-C3	11	11,12,13,14,15	SOIL	5	COMPOSITE-GRAB	0'-2'

SOIL SAMPLES WERE COLLECTED ON A DISCRETE SAMPLE BASIS (ONE SAMPLE PER EACH LOCATION). SAMPLES WERE SENT TO THE LAB WITH THE INSTRUCTIONS TO COMPOSITE EQUAL WEIGHTS AND ANALYZE FOR TOTAL PCB'S. RESULTS REPORTED ABOVE ARE FOR COMPOSITE SAMPLES.

bee



1389

Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520
 DESCRIPTION G.E., Pittsfield Job No. 101-75-12
 DATE COLLECTED See Below DATE RECD. 12/20/89 DATE ANALYZED 12/20/89

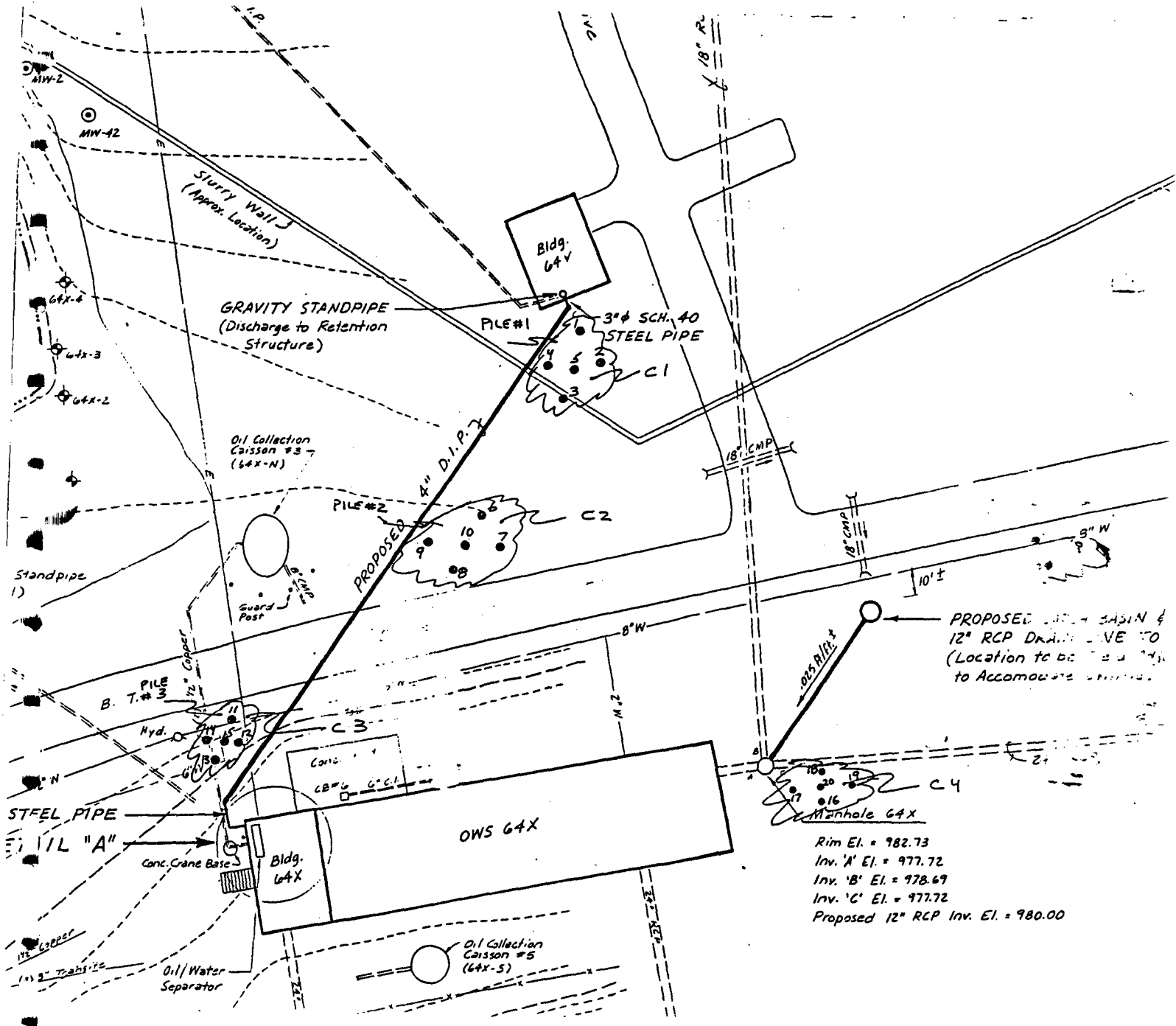
LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt	PCTS (%)	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
64X-C1	12/20/89	12/20/89	1.7	89.6	1.9	Soil	A
↓ ↓ C2	↓	↓	14	90.3	16	Composites	↓
↓ ↓ C3	↓	↓	8.9	84.6	11	↓	↓
A) Duplicate of 64X-C2			12	90.3	13 vs 16		%RPD = 21%
Lab Blank 1 12/20/89			—	—	<1.		

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 Units: mg/(ppm) unless otherwise noted

Comments:

OBG Laboratories, Inc.
 Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Authorized: _____
 Date: _____



PROPOSED 12" RCP DRAIN LINE TO
 (Location to be determined)
 to Accommodate Changes.

Rim El. = 982.73
 Inv. 'A' El. = 977.72
 Inv. 'B' El. = 978.69
 Inv. 'C' El. = 977.72
 Proposed 12" RCP Inv. El. = 980.00

DELIVERED TO
KRISTEN BEGON
4-17-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Robert W. Rhoades
Re: Bldg.64X Pipeline Soil Sampling (Area 2)

Date: 04/16/90
File No: 10-75-12
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted on 04/10/90 outside Bldg.64X. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM (SEE NOTE)	SAMPLE LOCATION	SAMPLE MATERIAL	NUMBER OF SAMPLES IN COMPOSITE	SAMPLE TYPE	SAMPLE DEPTH
64X-C4	58	16,17,18,19,20	SOIL	5	COMPOSITE-SRAB	0'-2'

NOTE: SOIL SAMPLES WERE COLLECTED ON A DISCRETE SAMPLE BASIS (ONE SAMPLE PER EACH LOCATION). SAMPLES WERE SENT TO THE LAB WITH THE INSTRUCTIONS TO COMPOSITE EQUAL WEIGHTS AND ANALYZE FOR TOTAL PCB'S. RESULTS REPORTED ABOVE ARE FOR COMPOSITE SAMPLES.

bee



1545

Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-12

DATE COLLECTED See Below DATE REC'D. 4/10/90 DATE ANALYZED 4/10/90

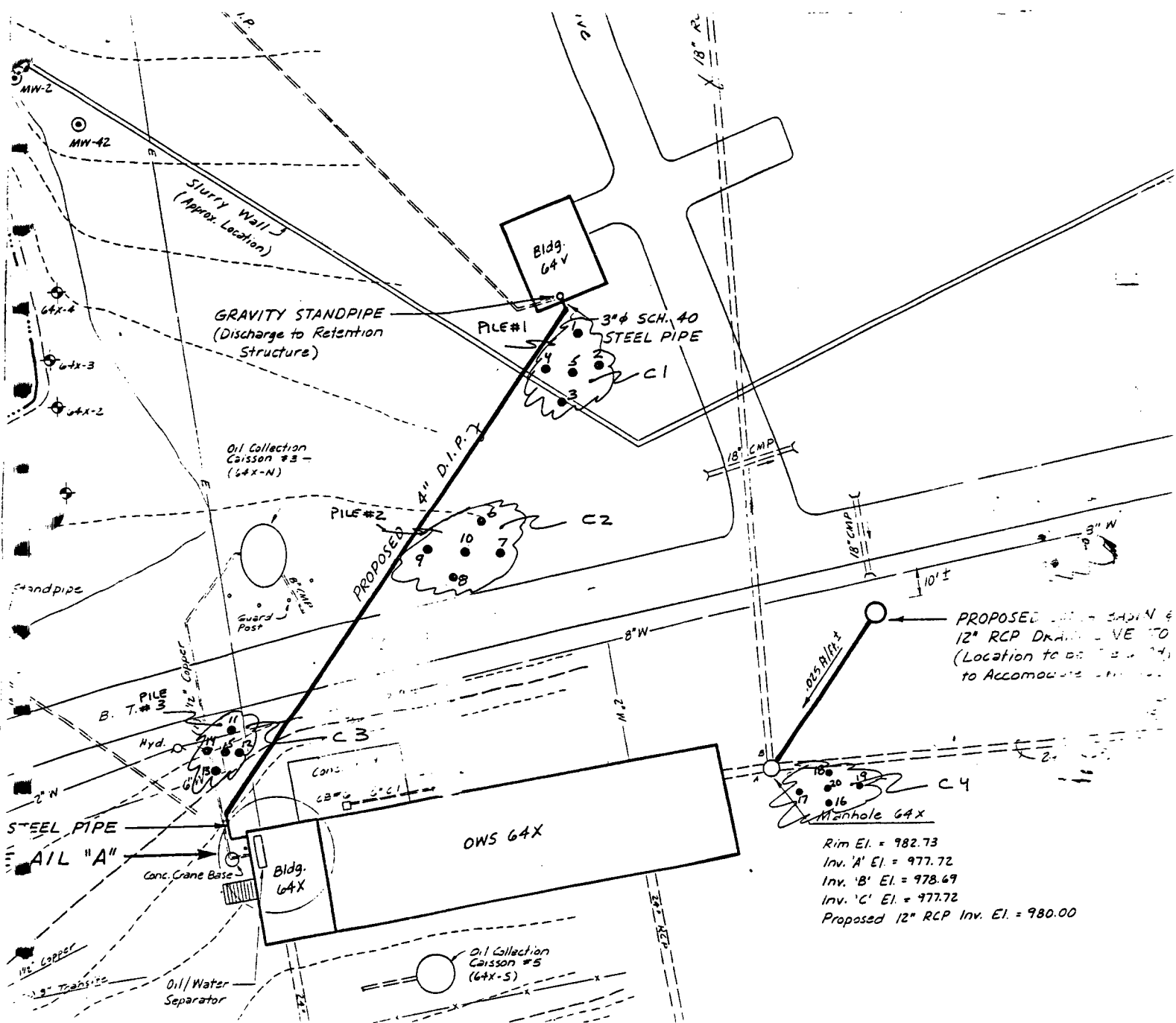
LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS (%)	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
64X-64	4/10/90	4/10/90	53	91.5	58	Soil Comp A	
A) Lab Blank 2	4/10/90		—	—	< 2.		

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____



Rim El. = 982.73
 Inv. 'A' El. = 977.72
 Inv. 'B' El. = 978.69
 Inv. 'C' El. = 977.72
 Proposed 12" RCP Inv. El. = 980.00



SUBJECT

BLDG. 64X SOIL SAMPLING

PROJ NO.

101-75-12

BY

HE

DATE

6/21/90

SHEET

Request for Sampling

Date: 5-22-90

Initiator: Kristen Begor

BLDG. Location: Bldg. 64X Pipeline

Contact Person Kristen Begor Ext. 3737

Item Description

1) Soil

2)

Notes: Soil was screened with HNU meter in reference to DEP-required sampling letter dated 5-16-90 (see attached letter).

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg.64X Pipeline Soil Sampling (Area 2)

Date: 07/24/90
File No: 101-75-12
cc: Grant Bowman (GE)
Kristen Begor (GE)

The following is a summary of the sample results for the sampling program conducted outside of Bldg.64X on 07/10/90. A drawing showing the sample location is attached (see figure 1). Analytical Reports provided by OBG Laboratories have also been included.

SEMI-VOLATILE SAMPLING RESULTS METHOD 8270

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE
64X-C5	see OBG Lab Report	SOIL	C5	DISCRETE-GRAB

TOTAL METALS SAMPLING RESULTS METHOD 5010-7000-S

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE
64X-C5	see OBG Lab Report	SOIL	C5	DISCRETE-GRAB

PHENOLIC COMPOUND SAMPLING RESULTS METHOD 8040

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE
64X-C5	see OBG Lab Report	SOIL	C5	DISCRETE-GRAB

TOTAL CYANIDE RESULTS METHOD 9010

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE
64X-C5	see OBG Lab Report	SOIL	C5	DISCRETE-GRAB

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE
64X-C5	see 086 Lab Report	SOIL	C5	DISCRETE-GRAB

see



LABORATORIES, INC.

Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Building 64X Pipeline Soil

64X-C5

SAMPLE NO. K5432 DATE COLLECTED 7-10-90 DATE RECEIVED 7-11-90

DATE EXTRACTED 7-12-90 DATE ANALYZED 7-26-90

Hexachlorobenzene	<370.	Benzo (a) anthracene	790.
Pentachlorophenol	<1800.	Chrysene	980.
Phenanthrene	1100.	Bis (2-ethylhexyl) phthalate	500. (B)
Anthracene	<370.	Di-n-octylphthalate	<370.
Di-n-butylphthalate	<370.	Benzo (b) fluoranthene	820.
Fluoranthene	1400.	Benzo (k) fluoranthene	770.
Pyrene	1900.	Benzo (a) pyrene	760.
Butylbenzylphthalate	<370.	Indeno (1,2,3-cd) pyrene	520.
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) anthracene	<370.
		Benzo (g,h,i) perylene	490.

Comments:

Methodology: EPA Target Compound List By 8270. SW-846
November 1986, 3rd Edition

Certification No.: NY034

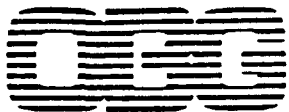
Units: $\mu\text{g}/\text{kg}$ dry weight

Values flagged with a "B" indicate that the analyte was detected in the blank, as well as in the sample. The blank exhibited 260 $\mu\text{g}/\text{kg}$ Bis(2-ethylhexyl)-phthalate.

Page 2 of 2

Authorized: Michael W. Pettit

Date: August 10, 1990



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C.

JOB NO. 2887.026.517

DESCRIPTION Building 64X Pipeline Soil

64X-C5

SAMPLE NO. K5432

DATE COLLECTED 7-10-90

DATE RECEIVED 7-11-90

DATE EXTRACTED 7-12-90

DATE ANALYZED 7-26-90

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.

Authorized: *Richard A. Lett*

Date: August 10, 1990



LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK, P.C.

JOB NO. 2887.026.517

DESCRIPTION Building 64X Pipeline Soil

DATE COLLECTED 7-10-90

DATE RECEIVED 7-11-90

Description:	64 X-C5			
Sample #	K5432			
Total Metals:				
SILVER	<1.			
ARSENIC	7.5			
BERYLLIUM	<1.			
CADMIUM	<1.			
CHROMIUM	12.			
COPPER	42.			
MERCURY	<0.6			
NICKEL	27.			
LEAD	50.			
ANTIMONY	<10.			
SELENIUM	<0.6			
THALLIUM	<56.			
ZINC	97.			
Other Analyses:				
TOTAL PHENOL	0.74			
TOTAL CYANIDE	1.1			
PCB (Aroclor 1260)	11.			
PERCENT TOTAL SOLIDS	90.			

Comments:

Certification No.: NY034

Units: mg/kg dry weight

Authorized: *Michael H. Pettrillo*

Date: August 10, 1990

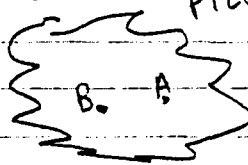


S U B J E C T	P R O J . N O .	B Y	D A T E	S H E E T
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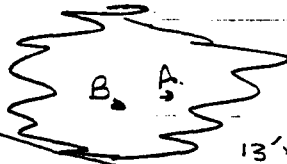
EAST ST

64V

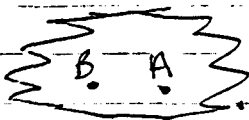
PILE #1



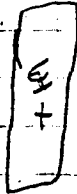
PILE #2



PILE #3



10' x 10' x 3'



APPENDIX J, SECTION B-14

TABLE 8

EAST STREET AREA 2

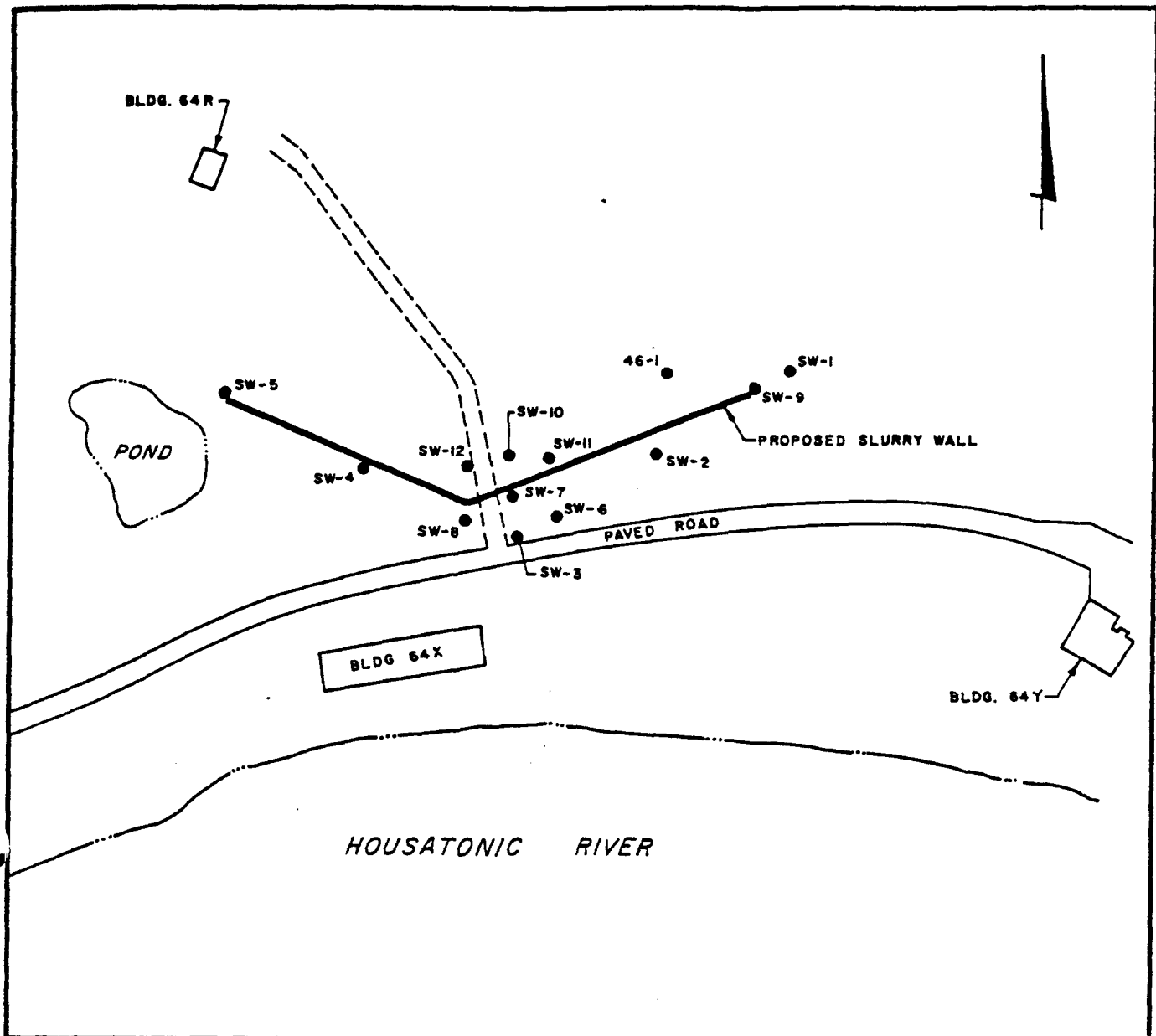
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

SUBSURFACE PCB CONCENTRATIONS
IN AREA OF SLURRY WALL (PPM)

Depth from Surface (ft.)	Boring Number				
	SW-1	SW-2	SW-4	SW-5	SW-8
0-2	<1	<1	↑	↑	↑
2-4	<1	<1	↑	↑	↑
4-6	<1	<1	<1	<1	3
6-8	<1	<1	↑	↑	↑
8-10	<1	<1	↓	↓	↓
10-12	<1	<1	32	↓	↓
12-14	<1	24	<1	↓	7
14-16	<1	<1	26	<1	15
16-18	<1	<1	62	↓	5
18-20	<1	3	84	↓	↑
20-22	End of Boring	<1	↑	↓	↑
22-24		<1		17	<1
24-26		<1	8		↑
26-28		<1	↓	↓	↓
		End of Boring	End of Boring	End of Boring	End of Boring

Notes:

1. Sampling dates 8/7/86-8/12/86.
2. Samples collected by Geraghty & Miller, Inc.; Analysis by General Electric.



LEGEND

● SOIL BORING

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

MCP PHASE II
EAST STREET AREA 2

LOCATION OF
SLURRY WALL
BORINGS



APPENDIX J, SECTION B-15

DELIVERED TO
GRANT BOWMAN(GG)
11-6-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: 60 Field Hydrant Removal Sampling (East St. Area 2)

Date: 10/30/90
File No: 101-93-11
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted at the 60-Field (East St. Area 2) on 7/30/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
60-FIELD-C1	see OBG Lab Report	1 (PILE #1)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C2	see OBG Lab Report	2 (PILE #1)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C3	see OBG Lab Report	3 (PILE #1)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C4	see OBG Lab Report	4 (PILE #2)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C5	see OBG Lab Report	5 (PILE #2)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C6	see OBG Lab Report	6 (PILE #2)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C7	see OBG Lab Report	7 (PILE #3)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C8	see OBG Lab Report	8 (PILE #3)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C9	see OBG Lab Report	9 (PILE #3)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C10	see OBG Lab Report	10 (PILE #4)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C11	see OBG Lab Report	11 (PILE #4)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C12	see OBG Lab Report	12 (PILE #4)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C13	see OBG Lab Report	13 (PILE #5)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C14	see OBG Lab Report	14 (PILE #5)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C15	see OBG Lab Report	15 (PILE #5)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C16	see OBG Lab Report	16 (PILE #6)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C17	see OBG Lab Report	17 (PILE #6)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C18	see OBG Lab Report	18 (PILE #6)	SOIL	DISCRETE-GRAB	2'-3'

VOC SAMPLING RESULTS METHOD 8240

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
60-FIELD-C1	see 086 Lab Report	1 (PILE #1)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C2	see 086 Lab Report	2 (PILE #1)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C3	see 086 Lab Report	3 (PILE #1)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C4	see 086 Lab Report	4 (PILE #2)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C5	see 086 Lab Report	5 (PILE #2)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C6	see 086 Lab Report	6 (PILE #2)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C7	see 086 Lab Report	7 (PILE #3)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C8	see 086 Lab Report	8 (PILE #3)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C9	see 086 Lab Report	9 (PILE #3)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C10	see 086 Lab Report	10 (PILE #4)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C11	see 086 Lab Report	11 (PILE #4)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C12	see 086 Lab Report	12 (PILE #4)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C13	see 086 Lab Report	13 (PILE #5)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C14	see 086 Lab Report	14 (PILE #5)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C15	see 086 Lab Report	15 (PILE #5)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C16	see 086 Lab Report	16 (PILE #6)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C17	see 086 Lab Report	17 (PILE #6)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C18	see 086 Lab Report	18 (PILE #6)	SOIL	DISCRETE-GRAB	2'-3'

SEMI-VOLATILES SAMPLING RESULTS METHOD 8270

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
60-FIELD-C1	see OBG Lab Report	1 (PILE #1)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C2	see OBG Lab Report	2 (PILE #1)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C3	see OBG Lab Report	3 (PILE #1)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C4	see OBG Lab Report	4 (PILE #2)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C5	see OBG Lab Report	5 (PILE #2)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C6	see OBG Lab Report	6 (PILE #2)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C7	see OBG Lab Report	7 (PILE #3)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C8	see OBG Lab Report	8 (PILE #3)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C9	see OBG Lab Report	9 (PILE #3)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C10	see OBG Lab Report	10 (PILE #4)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C11	see OBG Lab Report	11 (PILE #4)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C12	see OBG Lab Report	12 (PILE #4)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C13	see OBG Lab Report	13 (PILE #5)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C14	see OBG Lab Report	14 (PILE #5)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C15	see OBG Lab Report	15 (PILE #5)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C16	see OBG Lab Report	16 (PILE #6)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C17	see OBG Lab Report	17 (PILE #6)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C18	see OBG Lab Report	18 (PILE #6)	SOIL	DISCRETE-GRAB	2'-3'

TOTAL CYANIDE SAMPLING RESULTS METHOD 9010

<u>WELL ID</u>	<u>TOTAL PCB PPM</u>	<u>SAMPLE LOCATION</u>	<u>SAMPLE MATERIAL</u>	<u>SAMPLE TYPE</u>	<u>SAMPLE DEPTH</u>
60-FIELD-C1	see OBG Lab Report	1 (PILE #1)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C2	see OBG Lab Report	2 (PILE #1)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C3	see OBG Lab Report	3 (PILE #1)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C4	see OBG Lab Report	4 (PILE #2)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C5	see OBG Lab Report	5 (PILE #2)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C6	see OBG Lab Report	6 (PILE #2)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C7	see OBG Lab Report	7 (PILE #3)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C8	see OBG Lab Report	8 (PILE #3)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C9	see OBG Lab Report	9 (PILE #3)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C10	see OBG Lab Report	10 (PILE #4)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C11	see OBG Lab Report	11 (PILE #4)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C12	see OBG Lab Report	12 (PILE #4)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C13	see OBG Lab Report	13 (PILE #5)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C14	see OBG Lab Report	14 (PILE #5)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C15	see OBG Lab Report	15 (PILE #5)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C16	see OBG Lab Report	16 (PILE #6)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C17	see OBG Lab Report	17 (PILE #6)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C18	see OBG Lab Report	18 (PILE #6)	SOIL	DISCRETE-GRAB	2'-3'

EPTOX METALS SAMPLING RESULTS

<u>SAMPLE ID</u>	<u>TOTAL PCB PPM</u>	<u>SAMPLE LOCATION</u>	<u>SAMPLE MATERIAL</u>	<u>SAMPLE TYPE</u>	<u>SAMPLE DEPTH</u>
60-FIELD-C1	see OBG Lab Report	1 (PILE #1)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C2	see OBG Lab Report	2 (PILE #1)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C3	see OBG Lab Report	3 (PILE #1)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C4	see OBG Lab Report	4 (PILE #2)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C5	see OBG Lab Report	5 (PILE #2)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C6	see OBG Lab Report	6 (PILE #2)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C7	see OBG Lab Report	7 (PILE #3)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C8	see OBG Lab Report	8 (PILE #3)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C9	see OBG Lab Report	9 (PILE #3)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C10	see OBG Lab Report	10 (PILE #4)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C11	see OBG Lab Report	11 (PILE #4)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C12	see OBG Lab Report	12 (PILE #4)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C13	see OBG Lab Report	13 (PILE #5)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C14	see OBG Lab Report	14 (PILE #5)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C15	see OBG Lab Report	15 (PILE #5)	SOIL	DISCRETE-GRAB	2'-3'
60-FIELD-C16	see OBG Lab Report	16 (PILE #6)	SOIL	DISCRETE-GRAB	0'-1'
60-FIELD-C17	see OBG Lab Report	17 (PILE #6)	SOIL	DISCRETE-GRAB	1'-2'
60-FIELD-C18	see OBG Lab Report	18 (PILE #6)	SOIL	DISCRETE-GRAB	2'-3'

see



Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B #101.93.11
East Street Area 2 - 60-Field-C1
 SAMPLE NO. K6903 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Phenol	<400.	4-Chloro-3-methylphenol	<400.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<400.
1,2-Dichlorobenzene		2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<400.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1900.
Hexachloroethane		Acenaphthene	<400.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone		4-Nitrophenol	<1900.
2-Nitrophenol		Dibenzofuran	<400.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1900.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<400.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1900.
Naphthalene		4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline		N-Nitrosodiphenylamine	<400.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<400.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B #101.93.11
East Street Area 2 - 60-Field-C1
SAMPLE NO. K6903 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Hexachlorobenzene	<400.	Benzo (a) anthracene	<400.
Pentachlorophenol	<1900.	Chrysene	
Phenanthrene	<400.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<800.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

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Authorized: 

Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. - 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B #101.93.11
East Street Area 2 - 60-Field-C2

SAMPLE NO. K6904 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B #101.93.11
East Street Area 2 - 60-Field-C2
 SAMPLE NO. K6904 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Hexachlorobenzene	<370.	Benzo (a) anthracene	<370.
Pentachlorophenol	<1800.	Chrysene	
Phenanthrene	<370.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	


Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

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Authorized: 
Date: September 12, 1990



Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C3
 SAMPLE NO. K6905 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Phenol	<400.	4-Chloro-3-methylphenol	<400.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<2000.
Benzyl alcohol		2-Chloronaphthalene	<400.
1,2-Dichlorobenzene		2-Nitroaniline	<2000.
2-Methylphenol		Dimethylphthalate	<400.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<2000.
Hexachloroethane		Acenaphthene	<400.
Nitrobenzene		2,4-Dinitrophenol	<2000.
Isophorone		4-Nitrophenol	<2000.
2-Nitrophenol		Dibenzofuran	<400.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<2000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<400.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<2000.
Naphthalene		4,6-Dinitro-2-methylphenol	<2000.
4-Chloroaniline		N-Nitrosodiphenylamine	<400.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<400.



Semivolatle Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11

East Street Area 2 - 60-Field-C3

SAMPLE NO. K6905 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90

DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

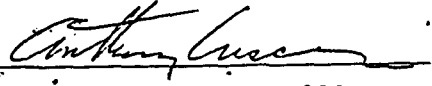
Hexachlorobenzene	<400.	Benzo (a) anthracene	<400.
Pentachlorophenol	<2000.	Chrysene	
Phenanthrene	<400.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<800.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

Authorized: 
Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11

East Street Area 2 - 60-Field-06 04

SAMPLE NO. K6906 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90

DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.

Authorized:

Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-CH
SAMPLE NO. K6906 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

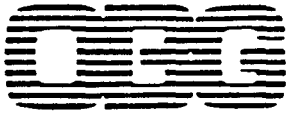
Hexachlorobenzene	<370.	Benzo (a) anthracene	550.
Pentachlorophenol	<1800.	Chrysene	590.
Phenanthrene	1200.	Bis (2-ethylhexyl) phthalate	<370.
Anthracene	<370.	Di-n-octylphthalate	<370.
Di-n-butylphthalate	<370.	Benzo (b) fluoranthene	610.
Fluoranthene	1200.	Benzo (k) fluoranthene	480.
Pyrene	1200.	Benzo (a) pyrene	490.
Butylbenzylphthalate	<370.	Indeno (1,2,3-cd) pyrene	<370.
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) anthracene	<370.
		Benzo (g,h,i) perylene	<370.

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

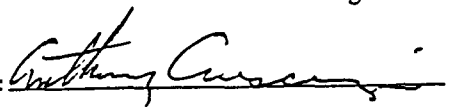


LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C5
 SAMPLE NO. K6907 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.

Authorized: 
 Date: September 12, 1990



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C5
 SAMPLE NO. K6907 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Hexachlorobenzene	<370.	Benzo (a) anthracene	700.
Pentachlorophenol	<1800.	Chrysene	690.
Phenanthrene	<1300.	Bis (2-ethylhexyl) phthalate	<370.
Anthracene	<370.	Di-n-octylphthalate	<370.
Di-n-butylphthalate	<370.	Benzo (b) fluoranthene	730.
Fluoranthene	1400.	Benzo (k) fluoranthene	580.
Pyrene	1400.	Benzo (a) pyrene	610.
Butylbenzylphthalate	<370.	Indeno (1,2,3-cd) pyrene	<370.
3,3'-Dichlorobenzidine	<740.	Dibenz (a,h) anthracene	<370.
		Benzo (g,h,i) perylene	<370.

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C6

SAMPLE NO. K6908 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C6
 SAMPLE NO. K6908 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Hexachlorobenzene	<370.	Benzo (a) anthracene	<370.
Pentachlorophenol	<1800.	Chrysene	
Phenanthrene	<370.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<740.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

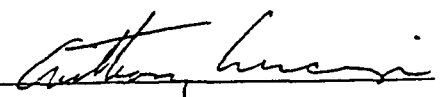
Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

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Authorized: 
Date: September 12, 1990



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C.

JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal

B & B # 101.93.11

East Street Area 2 - 60-Field-C7

SAMPLE NO. K6909

DATE COLLECTED 7-30-90

DATE RECEIVED 7-31-90

DATE EXTRACTED 8-01-90

DATE ANALYZED 8-10-90

Phenol	<350.	4-Chloro-3-methylphenol	<350.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<350.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<350.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	650.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	480.
2,4-Dimethylphenol		2,4-Dinitrotoluene	<350.
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<350.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	690.
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene	490.	4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline	<350.	N-Nitrosodiphenylamine	<350.
Hexachlorobutadiene	<350.	4-Bromophenyl-phenylether	<350.

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Authorized: 

Date: September 12, 1990



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C7
 SAMPLE NO. K6909 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Hexachlorobenzene	<350.	Benzo (a) anthracene	2400.
Pentachlorophenol	<1700.	Chrysene	2400.
Phenanthrene	4000.	Bis (2-ethylhexyl) phthalate	<350.
Anthracene	970.	Di-n-octylphthalate	<350.
Di-n-butylphthalate	<350.	Benzo (b) fluoranthene	2500.
Fluoranthene	3900.	Benzo (k) fluoranthene	1600.
Pyrene	5200.	Benzo (a) pyrene	1900.
Butylbenzylphthalate	<1700.	Indeno (1,2,3-cd) pyrene	1200.
3,3'-Dichlorobenzidine	<710.	Dibenz (a,h) anthracene	<350.
		Benzo (g,h,i) perylene	1100.

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

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Authorized: 

Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C8

SAMPLE NO. K6910 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-10-90

Phenol	<3600.	4-Chloro-3-methylphenol	<3600.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<18000.
Benzyl alcohol		2-Chloronaphthalene	<3600.
1,2-Dichlorobenzene		2-Nitroaniline	<18000.
2-Methylphenol		Dimethylphthalate	<3600.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<18000.
Hexachloroethane		Acenaphthene	<3600.
Nitrobenzene		2,4-Dinitrophenol	<18000.
Isophorone		4-Nitrophenol	<18000.
2-Nitrophenol		Dibenzofuran	<3600.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<18000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<3600.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<18000.
Naphthalene		4,6-Dinitro-2-methylphenol	<18000.
4-Chloroaniline		N-Nitrosodiphenylamine	<3600.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<3600.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C8
SAMPLE NO. K6910 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
DATE EXTRACTED 8-01-90 DATE ANALYZED 8-13-90

Hexachlorobenzene	<3600.	Benzo (a) anthracene	6100.
Pentachlorophenol	<18000.	Chrysene	6700.
Phenanthrene	12000.	Bis (2-ethylhexyl) phthalate	<3600.
Anthracene	<3600.	Di-n-octylphthalate	<3600.
Di-n-butylphthalate	<3600.	Benzo (b) fluoranthene	4900.
Fluoranthene	13000.	Benzo (k) fluoranthene	4200.
Pyrene	11000.	Benzo (a) pyrene	4500.
Butylbenzylphthalate	<3600.	Indeno (1,2,3-cd) pyrene	<3600.
3,3'-Dichlorobenzidine	<7200.	Dibenz (a,h) anthracene	<3600.
		Benzo (g,h,i) perylene	<3600.

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

Elevated detection limits due to matrix interferences.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C.

JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal

B & B # 101.93.11

East Street Area 2 - 60-Field-C9

SAMPLE NO. K6911

DATE COLLECTED 7-30-90

DATE RECEIVED 7-31-90

DATE EXTRACTED 8-01-90

DATE ANALYZED 8-11-90

Phenol	<380.	4-Chloro-3-methylphenol	<380.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<380.
1,2-Dichlorobenzene		2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<380.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1900.
Hexachloroethane		Acenaphthene	<380.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone		4-Nitrophenol	<1900.
2-Nitrophenol		Dibenzofuran	<380.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1900.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<380.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1900.
Naphthalene		4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline		N-Nitrosodiphenylamine	<380.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<380.

Authorized: 

Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C9
SAMPLE NO. K6911 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Hexachlorobenzene	<380.	Benzo (a) anthracene	1100.
Pentachlorophenol	<1900.	Chrysene	1100.
Phenanthrene	1800.	Bis (2-ethylhexyl) phthalate	<380.
Anthracene	400.	Di-n-octylphthalate	<380.
Di-n-butylphthalate	<380.	Benzo (b) fluoranthene	1200.
Fluoranthene	2200.	Benzo (k) fluoranthene	700.
Pyrene	2500.	Benzo (a) pyrene	880.
Butylbenzylphthalate	<380.	Indeno (1,2,3-cd) pyrene	680.
3,3'-Dichlorobenzidine	<770.	Dibenz (a,h) anthracene	<380.
		Benzo (g,h,i) perylene	700.

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

Authorized: 

Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. -2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C10

SAMPLE NO. K6912 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-13-90

Phenol	<360.	4-Chloro-3-methylphenol	<360.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<360.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<360.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<360.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	<360.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<360.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene		4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<360.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<360.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C10
 SAMPLE NO. K6912 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-13-90

Hexachlorobenzene	<360.	Benzo (a) anthracene	<360.
Pentachlorophenol	<1700.	Chrysene	
Phenanthrene	510.	Bis (2-ethylhexyl) phthalate	
Anthracene	<360.	Di-n-octylphthalate	
Di-n-butylphthalate	<360.	Benzo (b) fluoranthene	
Fluoranthene	680.	Benzo (k) fluoranthene	
Pyrene	580.	Benzo (a) pyrene	
Butylbenzylphthalate	<360.	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<720.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C11
 SAMPLE NO. K6913 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Phenol	<380.	4-Chloro-3-methylphenol	<380.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<380.
1,2-Dichlorobenzene		2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<380.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1900.
Hexachloroethane		Acenaphthene	<380.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone		4-Nitrophenol	<1900.
2-Nitrophenol		Dibenzofuran	<380.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1900.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<380.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1900.
Naphthalene		4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline		N-Nitrosodiphenylamine	<380.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<380.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C11
SAMPLE NO. K6913 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

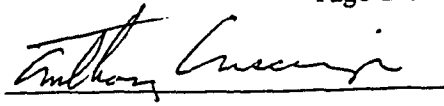
Hexachlorobenzene	<380.	Benzo (a) anthracene	<380.
Pentachlorophenol	<1900.	Chrysene	
Phenanthrene	<380.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<770.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

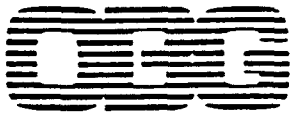
Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

Authorized: 

Date: September 12, 1990



LABORATORIES, INC.

Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C.

JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal

B & B # 101.93.11

East Street Area 2 - 60-Field-C12

SAMPLE NO. K6914

DATE COLLECTED 7-30-90

DATE RECEIVED 7-31-90

DATE EXTRACTED 8-01-90

DATE ANALYZED 8-11-90

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.

Authorized: 

Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C12
 SAMPLE NO. K6914 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Hexachlorobenzene	<370.	Benzo (a) anthracene	<370.
Pentachlorophenol	<1800.	Chrysene	
Phenanthrene	<370.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<740.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

Authorized: *Anthony Casanova*
Date: September 12, 1990



Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. - 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C13

SAMPLE NO. K6915 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Phenol	<350.	4-Chloro-3-methylphenol	<350.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<350.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<350.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<350.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	<350.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<350.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene		4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<350.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<350.



Semivolatle Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C13
SAMPLE NO. K6915 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Hexachlorobenzene	<350.	Benzo (a) anthracene	570.
Pentachlorophenol	<1700.	Chrysene	580.
Phenanthrene	1100.	Bis (2-ethylhexyl) phthalate	<350.
Anthracene	<350.	Di-n-octylphthalate	<350.
Di-n-butylphthalate	<350.	Benzo (b) fluoranthene	570.
Fluoranthene	1200.	Benzo (k) fluoranthene	610.
Pyrene	1000.	Benzo (a) pyrene	510.
Butylbenzylphthalate	<350.	Indeno (1,2,3-cd) pyrene	<350.
3,3'-Dichlorobenzidine	<710.	Dibenz (a,h) anthracene	<350.
		Benzo (g,h,i) perylene	<350.

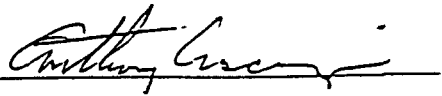
Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: $\mu\text{g}/\text{kg}$

Page 2 of 2

Authorized: 
Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C14
 SAMPLE NO. K6916 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Phenol	<350.	4-Chloro-3-methylphenol	<350.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<350.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<350.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<350.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	<350.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<350.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene		4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<350.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<350.



Semivolatle Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C14
 SAMPLE NO. K6916 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Hexachlorobenzene	<350.	Benzo (a) anthracene	<350.
Pentachlorophenol	<1700.	Chrysene	
Phenanthrene	<350.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<710.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

Authorized: 

Date: September 12, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area #2 - 60-Field-C15
 SAMPLE NO. K6917 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Phenol	<350.	4-Chloro-3-methylphenol	<350.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<350.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<350.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<350.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	<350.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<350.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene		4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<350.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<350.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C15
 SAMPLE NO. K6917 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

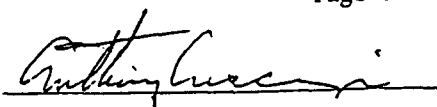
Hexachlorobenzene	<350.	Benzo (a) anthracene	<350.
Pentachlorophenol	<1700.	Chrysene	
Phenanthrene	<350.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<710.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

Authorized: 
Date: September 12, 1990



Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C16
 SAMPLE NO. K6918 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Phenol	<350.	4-Chloro-3-methylphenol	<350.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<350.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<350.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<350.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	<350.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<350.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene		4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<350.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<350.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C16

SAMPLE NO. K6918 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

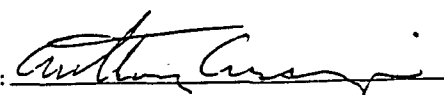
Hexachlorobenzene	<350.	Benzo (a) anthracene	<350.
Pentachlorophenol	<1700.	Chrysene	
Phenanthrene	<350.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<710.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

Authorized: 
 Date: September 12, 1990



Semivolatile Organics

Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C17

SAMPLE NO. K6919 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Phenol	<360.	4-Chloro-3-methylphenol	<360.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<360.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<360.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<360.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<360.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<360.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<360.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<360.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - 60-Field-C17

SAMPLE NO. K6919 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-01-90 DATE ANALYZED 8-11-90

Hexachlorobenzene	<360.	Benzo (a) anthracene	<360.
Pentachlorophenol	<1800.	Chrysene	
Phenanthrene	<360.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<720.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

Authorized:



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.95.11
East Street Area 2 - 60-Field-C18
 SAMPLE NO. K6920 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90
 DATE EXTRACTED 8-02-90 DATE ANALYZED 8-13-90

Phenol	<350.	4-Chloro-3-methylphenol	<350.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<350.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<350.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<350.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	<350.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<350.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene		4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<350.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<350.



LABORATORIES, INC.

Semivolatle Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11

East Street Area 2 - 60-Field-C18

SAMPLE NO. K6920 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90

DATE EXTRACTED 8-02-90 DATE ANALYZED 8-13-90

Hexachlorobenzene	<350.	Benzo (a) anthracene	<350.
Pentachlorophenol	<1700.	Chrysene	
Phenanthrene	<350.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<700.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg

Authorized:

Date: September 12, 1990



Laboratory Report

CLIENT BLASLAND & BOUCK, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - Soils
 Analyzed 8-2-90 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90

Description:	Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS	CYANIDE Method 9010
60-Field-C1	K6903	1.1	1260	83.	<0.5
60-Field-C2	K6904	4.6	1260	90.	<0.5
60-Field-C3	K6905	1.0	1260	82.	<0.5
60-Field-C4	K6906	0.7	1260	90.	<0.5
60-Field-C5	K6907	1.1	1260	90.	<0.5
60-Field-C6	K6908	0.8	1260	90.	<0.5
60-Field-C7	K6909	0.9	1260	93.	<0.5
60-Field-C8	K6910	1.4	1260	91.	<0.5
60-Field-C9	K6911	<0.6	-	86.	<0.5
60-Field-C10	K6912	<0.5	-	92.	<0.5
60-Field-C11	K6913	<0.6	-	86.	<0.5
60-Field-C12	K6914	<0.6	-	89.	<0.5
60-Field-C13	K6915	<0.5	-	93.	<0.5
60-Field-C14	K6916	<0.5	-	93.	<0.5
60-Field-C15	K6917	<0.5	-	93.	<0.5
60-Field-C16	K6918	<0.5	-	93.	<0.5
60-Field-C17	K6919	<0.5	-	91.	<0.5
60-Field-C18	K6920	<0.5	-	94.	<0.5

Comments:

Certification No.: NY034

Units: mg/kg dry weight

Authorized: *Anthony Cusenza*

Date: September 11, 1990



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11

East Street Area 2 - Soils

DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90 DATE ANALYZED 8-1-90

DESCRIPTION:	60-Field-C1	60-Field-C2	60-Field-C3	60-Field-C4	60-Field-C5	60-Field-C6
SAMPLE NO.:	K6903	K6904	K6905	K6906	K6907	K6908
Chloromethane	<12.	<11.	<12.	<11.	<11.	<11.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	<6.	<5.	<6.	<6.	<6.	<6.
Acetone	<12.	<11.	<12.	<11.	<11.	<11.
Carbon disulfide	<6.	<5.	<6.	<6.	<6.	<6.
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
1,2-Dichloroethene (total)	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
2-Butanone	<12.	<11.	<12.	<11.	<11.	<11.
1,1,1-Trichloroethane	<6.	<5.	<6.	<6.	<6.	<6.
Carbon tetrachloride	<6.	<5.	<6.	<6.	<6.	<6.
Vinyl acetate	<12.	<11.	<12.	<11.	<11.	<11.
Bromodichloromethane	<6.	<5.	<6.	<6.	<6.	<6.
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
cis-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓

Authorized: 

Date: September 12, 1990



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - Soils
DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90 DATE ANALYZED 8-1-90

DESCRIPTION:	60-Field-C1	60-Field-C2	60-Field-C3	60-Field-C4	60-Field-C5	60-Field-C6
SAMPLE NO.:	K6903	K6904	K6905	K6906	K6907	K6908
trans-1,3-Dichloropropene	<6.	<5.	<6.	<6.	<6.	<6.
Bromoform	<6.	<5.	<6.	<6.	<6.	<6.
4-Methyl-2-pentanone	<12.	<11.	<12.	<11.	<11.	<11.
2-Hexanone	<12.	<11.	<12.	<11.	<11.	<11.
Tetrachloroethene	<6.	<5.	<6.	<6.	<6.	<6.
1,1,2,2-Tetrachloroethane	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Styrene	↓	↓	↓	↓	↓	↓
Xylene (total)	↓	↓	↓	↓	↓	↓

Comments:

Methodology: EPA Target Compound List By 8240, SW-846
November 1986, 3rd Edition

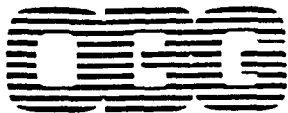
Certification No.: NY034

Units: µg/kg dry weight

Page 2 of 2

Authorized: *Anthony Cassano*

Date: September 12, 1990



LABORATORIES, INC.

Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B 101.93.11

East Street Area 2 - Soils

DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90 DATE ANALYZED 8-2,3-90

DESCRIPTION:	60-Field-C7	60-Field-C8	60-Field-C9	60-Field-C10	60-Field-C11	60-Field-C12
SAMPLE NO.:	K6909	K6910	K6911	K6912	K6913	K6914
trans-1,3-Dichloropropene	<5.	<5.	<6.	<6.	<6.	<6.
Bromoform	<5.	<5.	<6.	<6.	<6.	<6.
4-Methyl-2-pentanone	<11.	<11.	<12.	<11.	<12.	<11.
2-Hexanone	<11.	<11.	<12.	<11.	<12.	<11.
Tetrachloroethene	<5.	<5.	<6.	<6.	<6.	<6.
1,1,2,2-Tetrachloroethane	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Styrene	↓	↓	↓	↓	↓	↓
Xylene (total)	↓	↓	↓	↓	↓	↓

Comments:

Methodology: EPA Target Compound List By 8240, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

Page 2 of 2

Authorized: *Anthony Curran*

Date: September 12, 1990



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B 101.93.11
East Street Area 2 - Soils
 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90 DATE ANALYZED 8-2,3-90

DESCRIPTION:	60-Field-C7	60-Field-C8	60-Field-C9	60-Field-C10	60-Field-C11	60-Field-C12
SAMPLE NO.:	K6909	K6910	K6911	K6912	K6913	K6914
Chloromethane	<11.	<11.	<12.	<11.	<12.	<11.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	<5.	<5.	<6.	<6.	<6.	<6.
Acetone	<11.	26.	<12.	<11.	<12.	<11.
Carbon disulfide	<5.	<5.	<6.	<6.	<6.	<6.
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
1,2-Dichloroethene (total)	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
2-Butanone	<11.	<11.	<12.	<11.	<12.	<11.
1,1,1-Trichloroethane	<5.	<5.	<6.	<6.	<6.	<6.
Carbon tetrachloride	<5.	<5.	<6.	<6.	<6.	<6.
Vinyl acetate	<11.	<11.	<12.	<11.	<12.	<11.
Bromodichloromethane	<5.	<5.	<6.	<6.	<6.	<6.
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
cis-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓

Authorized: *Anthony Accurso*
 Date: September 12, 1990



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B 101.93.11
East Street Area 2 - Soils
 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90 DATE ANALYZED 8-2,3-90

DESCRIPTION:	60-Field-C13	60-Field-C14	60-Field-C15	60-Field-C16	60-Field-C17	60-Field-C18
SAMPLE NO.:	K6915	K6916	K6917	K6918	K6919	K6920
trans-1,3-Dichloropropene	<5.	<5.	<5.	<5.	<5.	<5.
Bromoform	<5.	<5.	<5.	<5.	<5.	<5.
4-Methyl-2-pentanone	<11.	<11.	<11.	<11.	<11.	<11.
2-Hexanone	<11.	<11.	<11.	<11.	<11.	<11.
Tetrachloroethene	<5.	<5.	<5.	<5.	<5.	<5.
1,1,2,2-Tetrachloroethane	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Styrene	↓	↓	↓	↓	↓	↓
Xylene (total)	↓	↓	↓	↓	↓	↓

Comments:

Methodology: EPA Target Compound List By 8240, SW-846
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

Page 2 of 2

Authorized:

Date: September 12, 1990



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B 101.93.11
East Street Area 2 - Soils

DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90 DATE ANALYZED 8-2,3-90

DESCRIPTION:	60-Field-C13	60-Field-C14	60-Field-C15	60-Field-C16	60-Field-C17	60-Field-C18
SAMPLE NO.:	K6915	K6916	K6917	K6918	K6919	K6920
Chloromethane	<11.	<11.	<11.	<11.	<11.	<11.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	<5.	<5.	<5.	<5.	<5.	<5.
Acetone	<11.	<11.	<11.	<11.	<11.	<11.
Carbon disulfide	<5.	<5.	<5.	<5.	<5.	<5.
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
1,2-Dichloroethene (total)	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
2-Butanone	<11.	<11.	<11.	<11.	<11.	<11.
1,1,1-Trichloroethane	<5.	<5.	<5.	<5.	<5.	<5.
Carbon tetrachloride	<5.	<5.	<5.	<5.	<5.	<5.
Vinyl acetate	<11.	<11.	<11.	<11.	<11.	<11.
Bromodichloromethane	<5.	<5.	<5.	<5.	<5.	<5.
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
cis-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓

Authorized: *Anthony Cascina*
 Date: September 12, 1990



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Pittsfield, MA - 60 Field Hydrant Removal B & B # 101.93.11
East Street Area 2 - Soils - EPTOX Metals
 DATE COLLECTED 7-30-90 DATE RECEIVED 7-31-90

Description:	Sample #	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY	SELENIUM	SILVER
60-Field-C1	K6903	<0.5	<10	<0.1	<0.5	<0.5	<0.0005	<0.1	<0.5
60-Field-C2	K6904								
60-Field-C3	K6905								
60-Field-C4	K6906								
60-Field-C5	K6907								
60-Field-C6	K6908								
60-Field-C7	K6909								
60-Field-C8	K6910								
60-Field-C9	K6911								
60-Field-C10	K6912								
60-Field-C11	K6913								
60-Field-C12	K6914								
60-Field-C13	K6915								
60-Field-C14	K6916								
60-Field-C15	K6917								
60-Field-C16	K6918								
60-Field-C17	K6919								
60-Field-C18	K6920								

Comments:

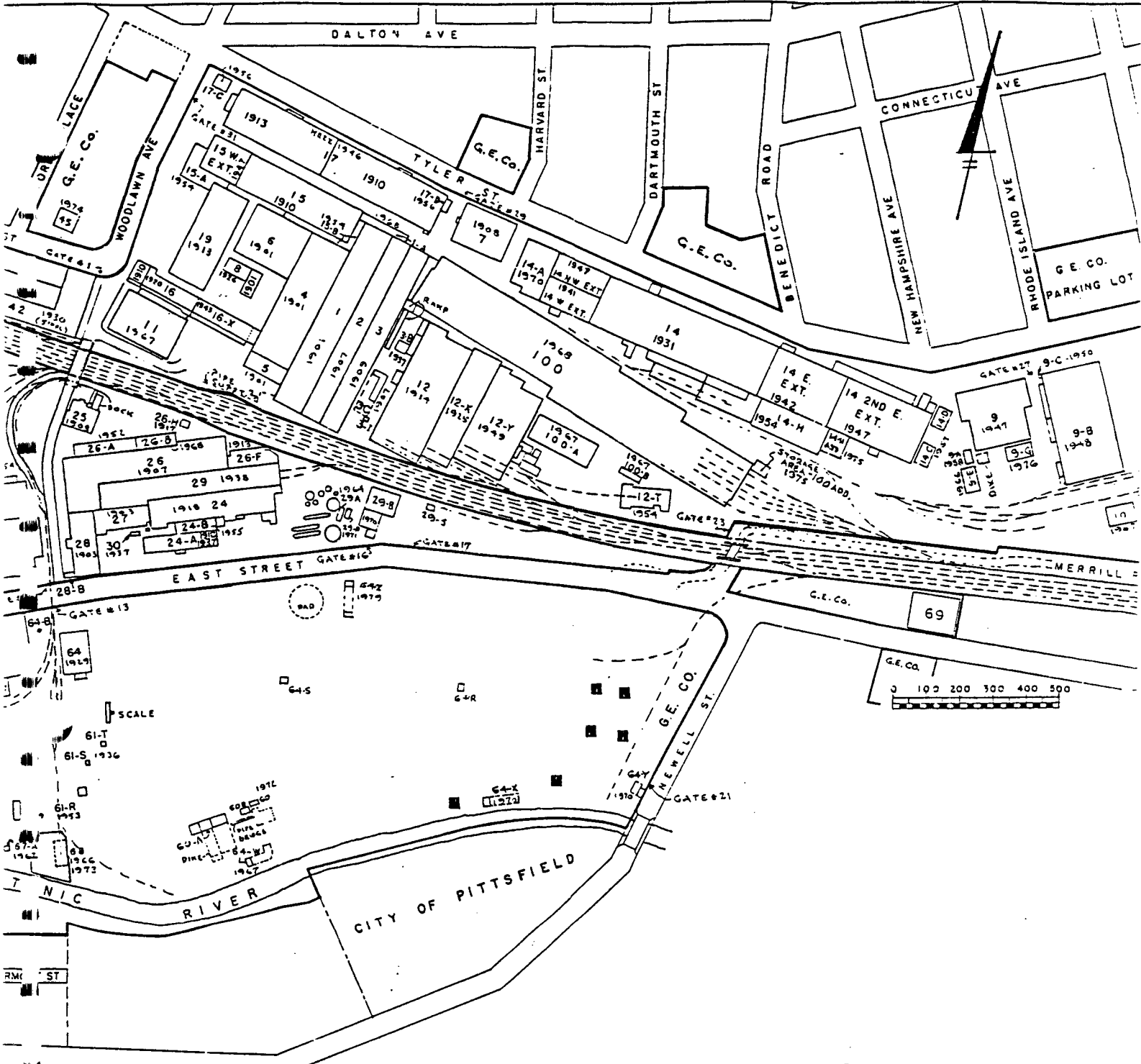
Certification No.: NY034

Units: mg/l

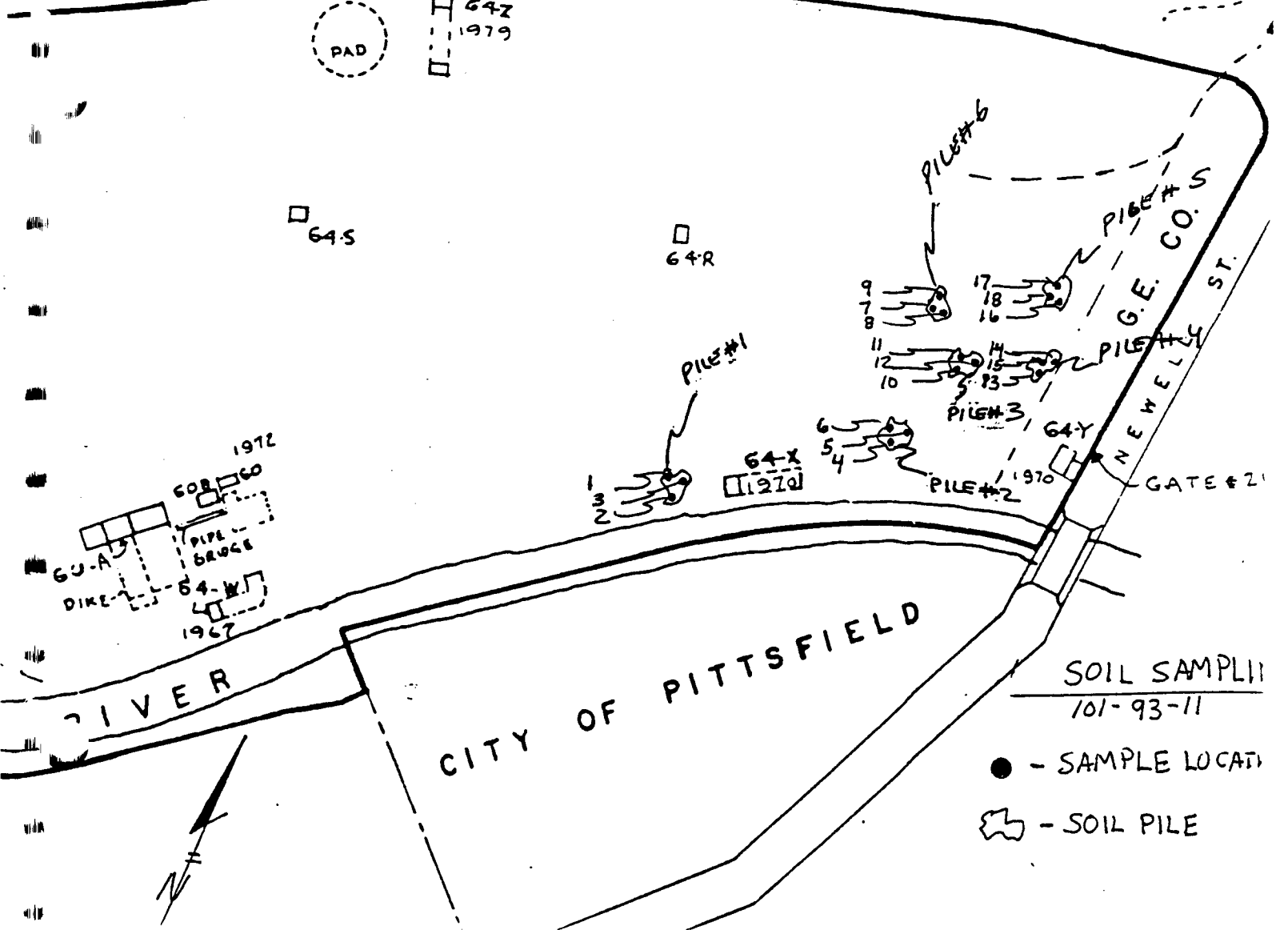
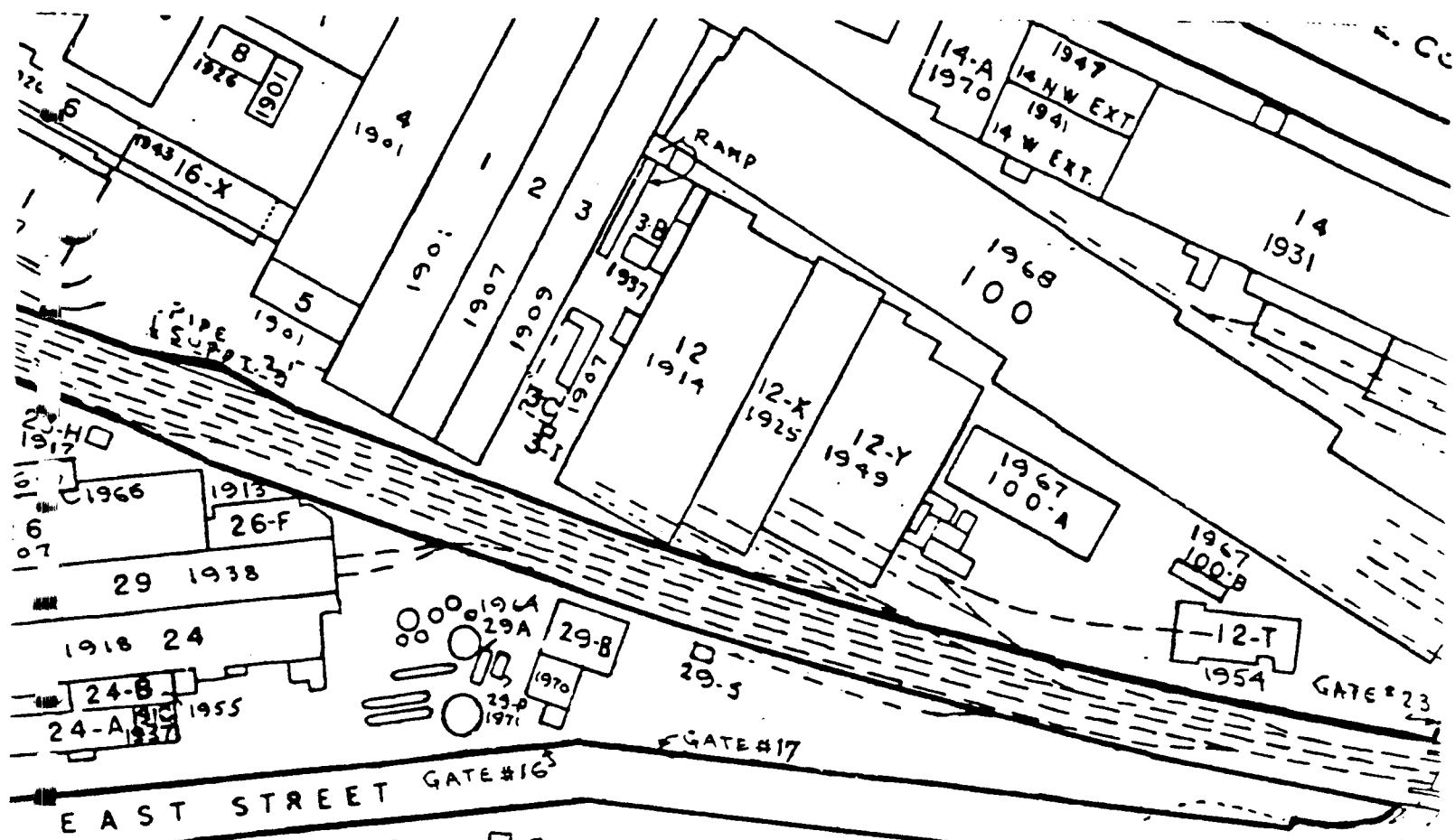
Authorized:

Date: September 12, 1990

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
 5000 Brimfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



■ - SITE LOCATION



SOIL SAMPLING
101-93-11

● - SAMPLE LOCATION

▨ - SOIL PILE

APPENDIX J, SECTION B-16

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: RWR
Re: East St. Area 2 Soil Sampling

Date: 6/13/89
File No: 101-79-10
cc: Grant Bowman (GE)
Jeff Ruebesan (GE)
BOB GOLDMAN (BB)

The following is a summary of the sample results for the PCB sampling conducted on 6/8/89 at East Street Area 2. A drawing showing the sample location is attached (see Figure 1). An Analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ESTA2-C1A	49	LOC.#1	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C1B	<5	LOC.#1	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C1C	<5	LOC.#1	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C2A	36	LOC.#2	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C2B	<5	LOC.#2	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C2C	<5	LOC.#2	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C3A	<5	LOC.#3	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C3B	<5	LOC.#3	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C3C	<5	LOC.#3	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C4A	<5	LOC.#4	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C4B	<5	LOC.#4	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C4C	<5	LOC.#4	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C5A	<5	LOC.#5	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C5B	<5	LOC.#5	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C5C	<5	LOC.#5	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C6A	<5	LOC.#6	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C6B	<5	LOC.#6	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C6C	<5	LOC.#6	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C7A	<5	LOC.#7	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C7B	<5	LOC.#7	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C7C	<5	LOC.#7	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C8A	<5	LOC.#8	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C8B	<5	LOC.#8	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C8C	<5	LOC.#8	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C9A	<5	LOC.#9	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C9B	<5	LOC.#9	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C9C	<5	LOC.#9	SOIL	DISCRETE-GRAB	2'-3'

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
--------	------------------	-----------------	-----------------	-------------	--------------

ESTA2-C10A	<5	LOC.#10	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C10B	<5	LOC.#10	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C10C	<5	LOC.#10	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C11A	<5	LOC.#11	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C11B	<5	LOC.#11	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C11C	<5	LOC.#11	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C12A	<5	LOC.#12	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C12B	<5	LOC.#12	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C12C	<5	LOC.#12	SOIL	DISCRETE-GRAB	2'-3'
ESTA2-C13A	<5	LOC.#13	SOIL	DISCRETE-GRAB	0'-1'
ESTA2-C13B	<5	LOC.#13	SOIL	DISCRETE-GRAB	1'-2'
ESTA2-C13C	<5	LOC.#13	SOIL	DISCRETE-GRAB	2'-3'

RWR/bee



1090

Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-79-01

DATE COLLECTED See Below DATE REC'D. 6/9/89 DATE ANALYZED 6/9/89 → 6/10/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS %	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
ESTAD-CIA	6/9/89	6/8/89	43	87.8	49	sc.1	A
C1B			<5.	90	<5.	↓	↓
C1C			<5.	92.2	<5.		
C2A			33	91.9	36		
C2B			<5.	87.3	<5.		
C2C			<5.	93.5	<5.		
C3A			<5.	91.7	<5.		
C3B			<5.	89	<5.		
C3C			<5.	92.7	<5.		
C4A			<5.	90.6	<5.		
A) Duplicate of ESTAD-C3C			<5.	92.5	<5.	vs <5.	90 RPD=?
Matrix Spike of ESTAD-C4A			—	—	4.67 =	140%	Recovery
Lab Blank d 6/9/89			—	—	3.37		
					<5.		

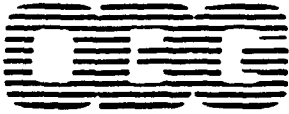
Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/(ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____



LABORATORIES, INC.

1091

PRELIMINARY

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-79-01

DATE COLLECTED See Below DATE REC'D. 6/9/89 DATE ANALYZED 6/13/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt	PCTS %	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
ESTA2-C4B	6/12/89	6/8/89	<5.	89.5	<5.	So. 1	A
C4C			<5.	88.5	<5.		
C5A			<5.	90.5	<5.		
C5B			<5.	90.6	<5.		
C5C			<5.	89.1	<5.		
C6A			<5.	91.4	<5.		
C6B			<5.	90.9	<5.		
C6C			<5.	94.4	<5.		
C7A			<5.	94	<5.		
C7B			<5.	88.7	<5.		
A) Duplicate of ESTA2-C6C			<5.	94.9	<5.	vs <5.	3. RPD = ?
Matrix Spike of ESTA2-C7A			—	94.4	$\frac{12.87}{10.03} =$	128%	Recovery
Lab Blank 1	6/12/89		—	—	<5.		

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____



1093
PRELIMINARY

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-79-01

DATE COLLECTED See Below DATE RECD. 6/9/89 DATE ANALYZED 6/14/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS %	Total PCB mg/Kg dry wt	COMMENTS	QC RESULTS	
ESTA2-C7C	6/13/89	6/8/89	<5.	91.7	<5.	Soil	A	
C8A			<5.	92.2	<5.			
C8B			<5.	90.1	<5.			
C8C			<5.	87.4	<5.			
C9A			<5.	93.2	<5.			
C9B			<5.	78.9	<5.			
C9C			<5.	90.3	<5.			
C10A			<5.	86.5	<5.			
C10B			<5.	90.2	<5.			
C10C			<5.	92.	<5.			
A) Duplicate of ESTA2-C10A			<5.	87.6	<5.	vs <5.	90 RPD=?	
Matrix Spike of ESTA2-C10B			—	89.8	$\frac{13.62}{10.03}$			= 136% Recovery
Lab Blank 1 6/13/89			—	—	<5.			

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/(ppm) unless otherwise noted

Comments:

Authorized: _____

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Date: _____



1094

PRELIMINARY

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520
 DESCRIPTION G.E., Pittsfield Job No. 101-79-01
 DATE COLLECTED See Below DATE REC'D. 6/8/89 DATE ANALYZED 6/15/89

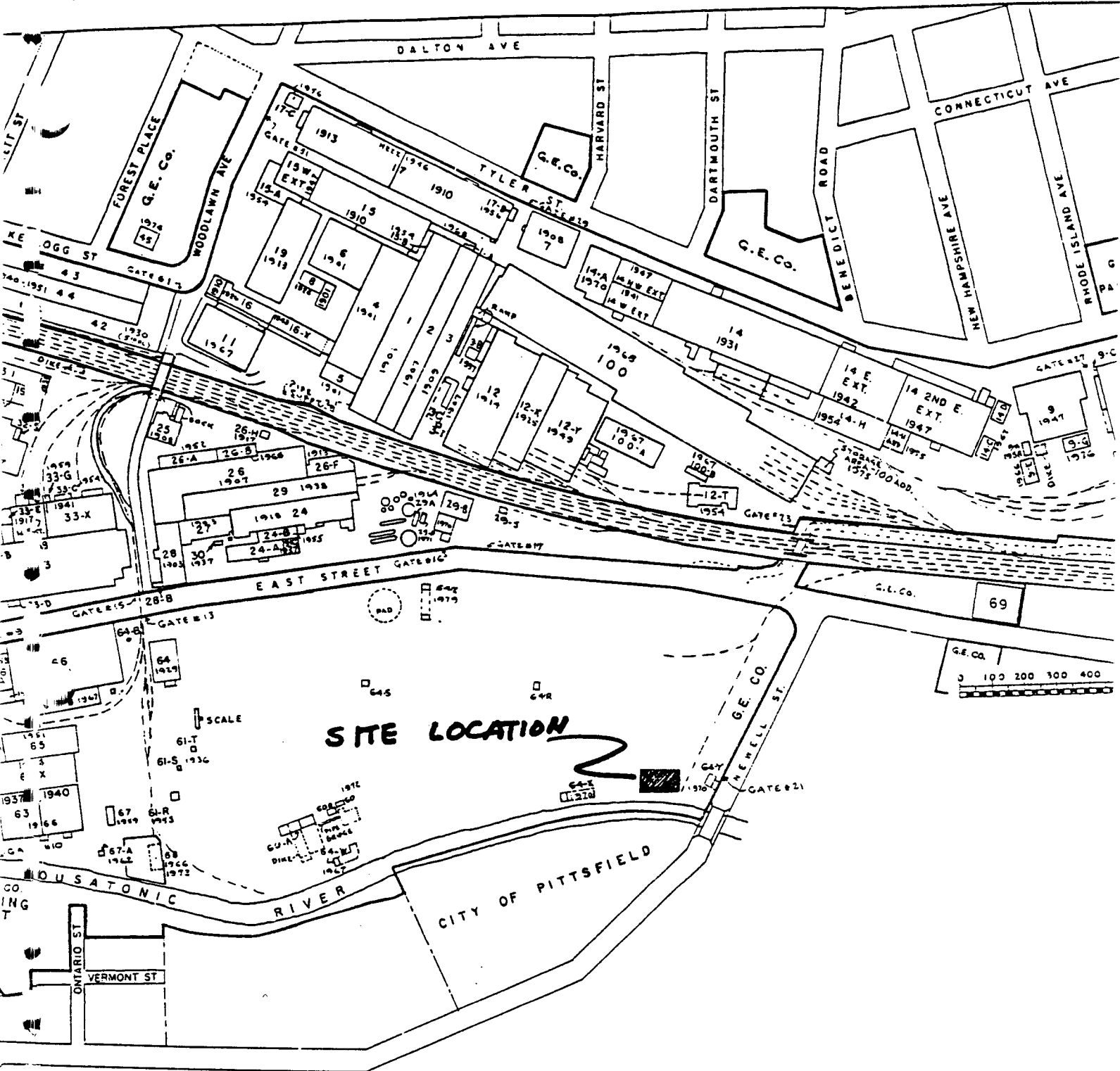
LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt	PCTS %	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
ESTA2-C11A	6/15/89	6/8/89	<5.	76.8	<5.	Soil	A
C11B			<5.	86.2	<5.		
C11C			<5.	88	<5.		
C12A			<5.	86.8	<5.		
C12B			<5.	85.6	<5.		
C12E			<5.	91.1	<5.		
C13A			<5.	89.2	<5.		
C13B			<5.	92	<5.		
C13C			<5.	90.8	<5.		
A) Duplicate of ESTA2-C13C			<5.	90.2	<5.	us <5.	%RPD=?
Matrix Spike of ESTA2-C13B				92.7	$\frac{11.53}{10.03} =$	115%	Recovery
Lab Blank	6/14/89		—	—	<5.		

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 Units: mg/(ppm) unless otherwise noted

Comments:

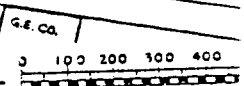
Authorized: _____

Date: _____

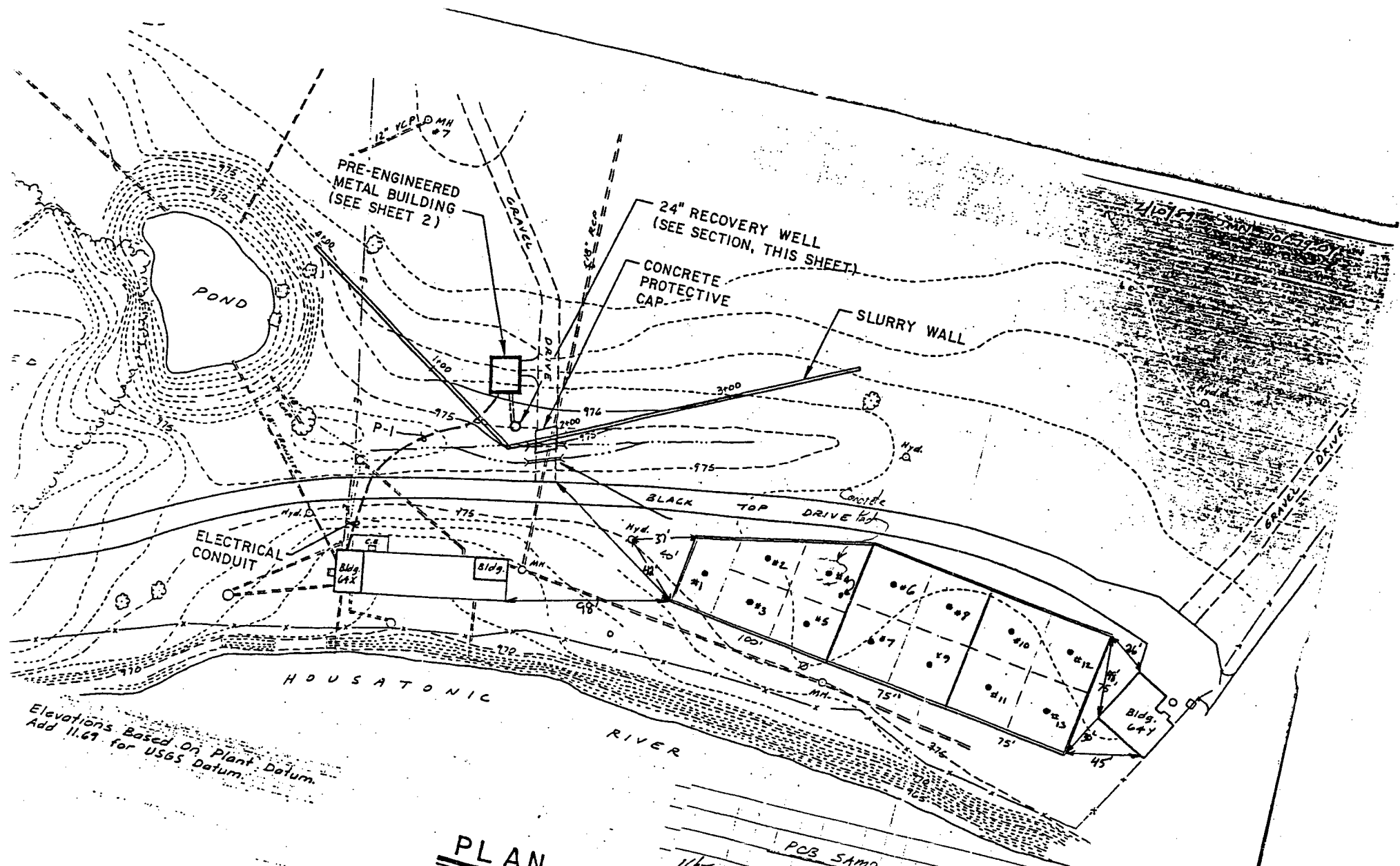


SITE LOCATION

CITY OF PITTSFIELD



SCALE



Elevations Based on Plant Datum.
 Add 11.69 for USGS Datum.

PLAN
 SCALE: 1" = 50'

116- PCB SAMPLING PLAN
 13 LOCATIONS TOTAL
 SAMPLE INCREMENTS
 REPRESENTATIVE
 SAMPLE

DELIVERED TO
GRANT BOWMAN (GE)
10-15-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: East St. Area II Soil Sampling

Date: 10/15/90
File No: 101-75-12
cc: Grant Bowman (GE)
Mark Phillips (GE)

The following is a summary of the sample results for the PCB sampling program conducted at East St. Area II on 10/08/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by ORG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ST2-C1	<.6	1	SOIL	DISCRETE-GRAB	0"-6"
EA-ST2-C2	<.6	1	SOIL	DISCRETE-GRAB	6"-12"
EA-ST2-C3	<.6	2	SOIL	DISCRETE-GRAB	0"-6"
EA-ST2-C4	<.6	2	SOIL	DISCRETE-GRAB	6"-12"
EA-ST2-C5	<.6	3	SOIL	DISCRETE-GRAB	0"-6"
EA-ST2-C6	<.6	3	SOIL	DISCRETE-GRAB	6"-12"
EA-ST2-C7	<.6	4	SOIL	DISCRETE-GRAB	0"-6"
EA-ST2-C8	<.6	4	SOIL	DISCRETE-GRAB	6"-12"



2-3 day turnaround

requested RUSH
PRELIMINARY

SECTION LEADER: AC
Laboratory Report

BIN #: 35

CLIENT Blasland + Buick Engineers PC JOB NO. 2887-026-517

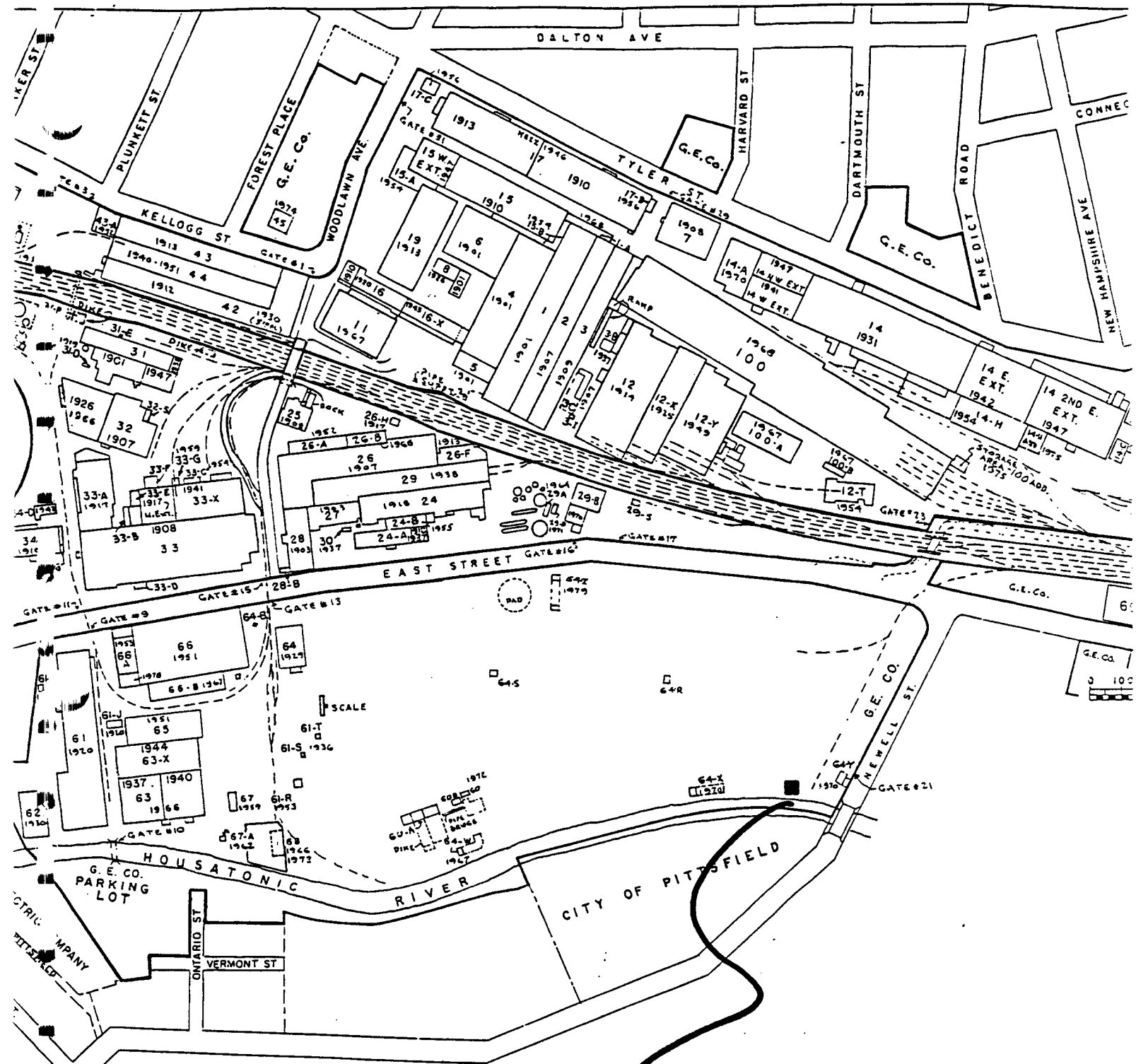
DESCRIPTION East St. Area II Soil Sampling MATRIX: Soil

Date analyzed: 10/9/90 DATE COLLECTED 10-8-90 DATE RECEIVED 10-9-90

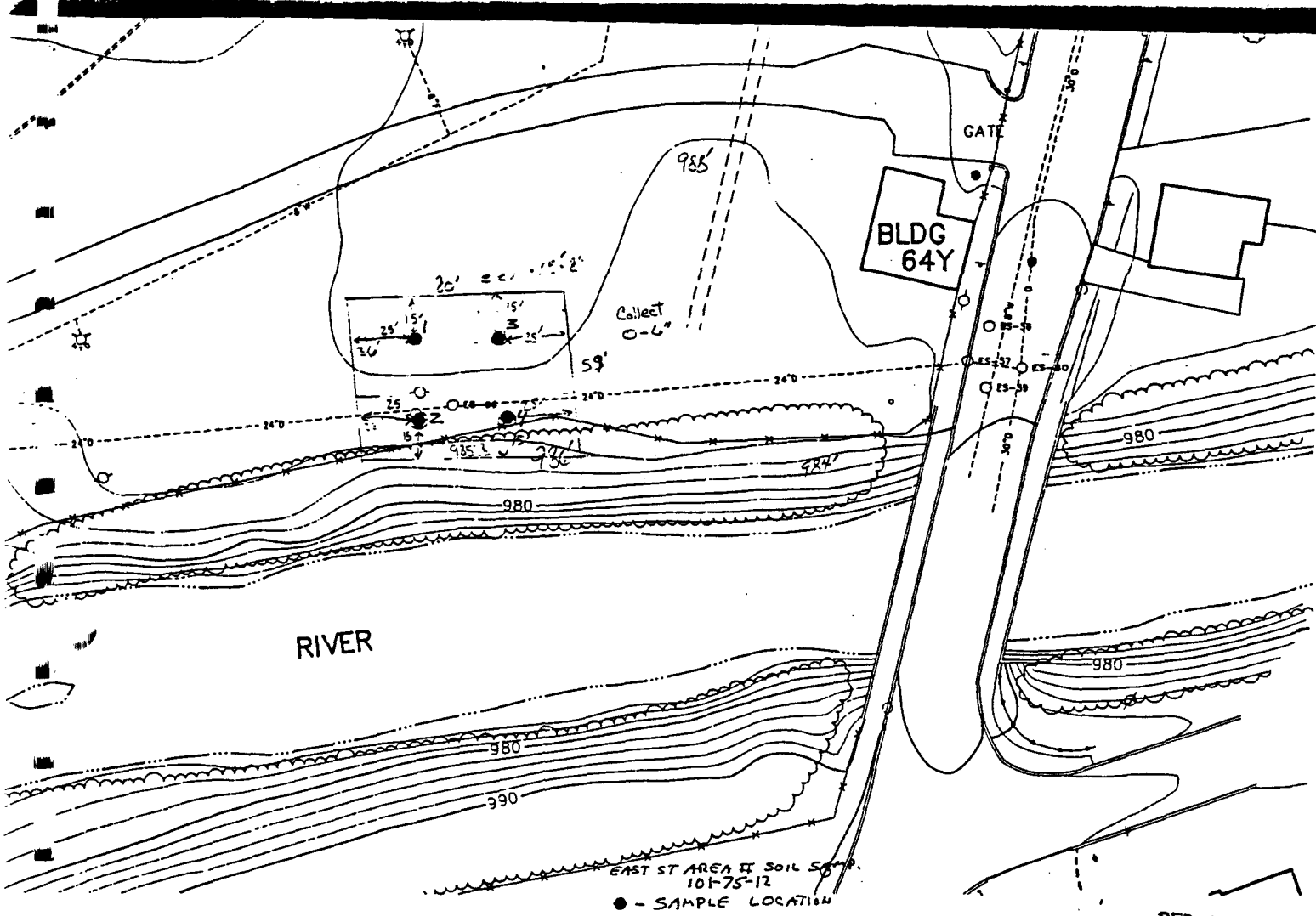
Description:	Lab#:	PCT'S	PCB'S (method D&D)	Atoclor
EA-ST2-C1	L1177	92	<.6	↓
EA-ST2-C2	L1178	94	<.6	
EA-ST2-C3	L1179	94	<.6	
EA-ST2-C4	L1180	89	<.6	
EA-ST2-C5	L1181	95	<.6	
EA-ST2-C6	L1182	95	<.6	
EA-ST2-C7	L1183	91	<.6	
EA-ST2-C8	L1184	92	<.6	

Comments:

Certification No.: NY 034
Units: mg/kg dry wt.



SITE LOCATION



GENERAL ELECTRIC COMPANY PITTSFIELD MASSACHUSETTS
 EAST STREET AREA 2 GROUND-WATER TREATMENT FACILITY

SITE PLAN

File Number	201.01.
Date	SEPTEMBER 1990

APPENDIX J, SECTION B-17

TABLE 9
 EAST STREET AREA 2
 GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
SOUTHSIDE PUMP STATION
SUBSURFACE PCB CONCENTRATIONS
(COMPOSITE SAMPLES) (PPM)

<u>Boring No.</u>	<u>PCBs (ppm)</u>
B-1	<1.6
B-2	29
B-3	33
B-4	4,323
B-5	11,216
B-6	312
B-7	616
B-8	14
B-9	<1
B-10	13,140
B-11	20
B-12	995
B-13	156
B-14	65
B-15	1,613
B-16	697
B-17	9,872
B-18	9,192
B-19	2,126
B-20	10
B-21	10
B-22	<1
B-23	241
B-24	309
B-25	22
B-26	2
B-27	2
B-28	1
B-29	3
B-30	6
B-31	9

Notes:

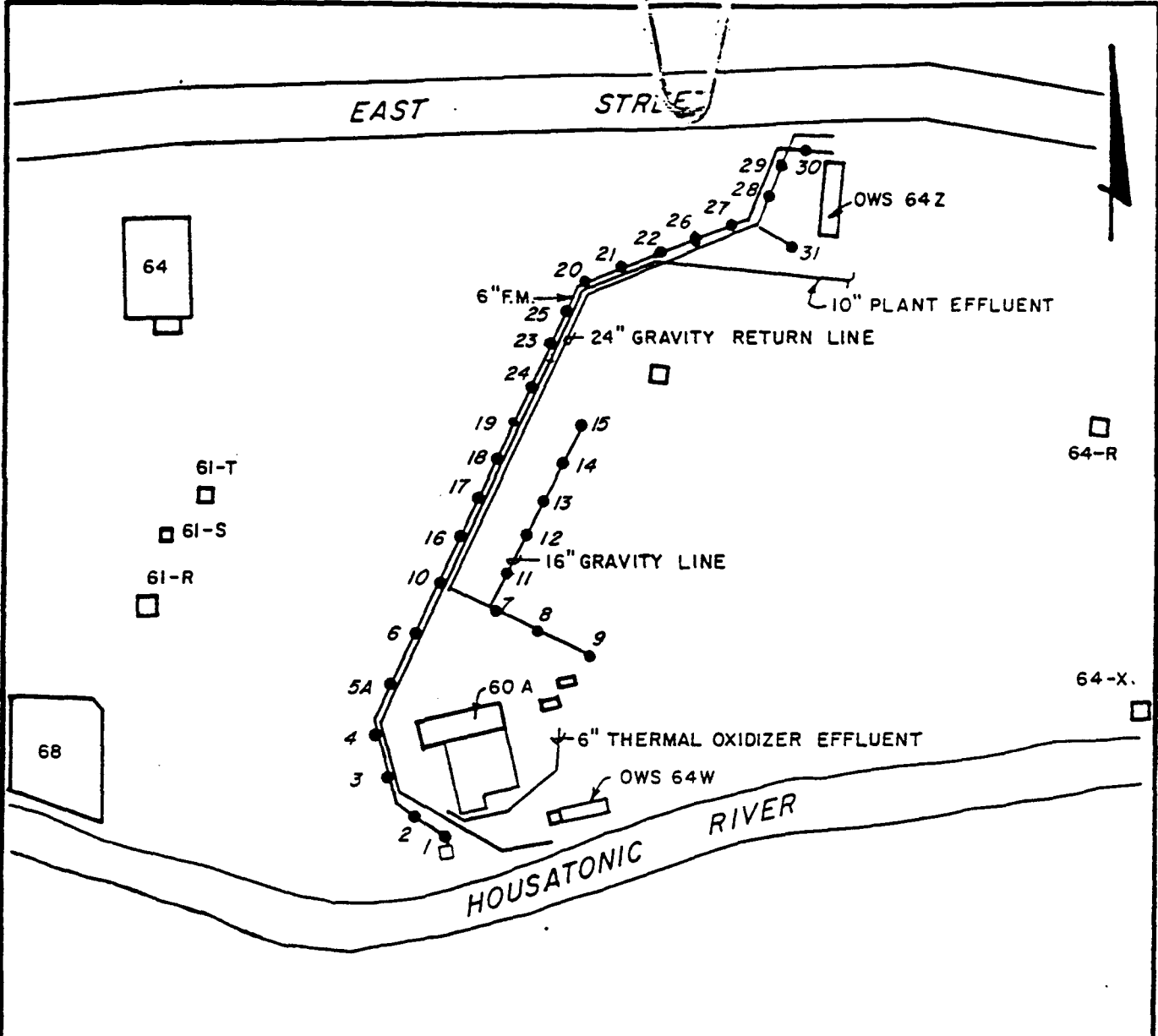
1. Sampling dates 11/5/86 - 11/7/86.
2. Samples collected by Geraghty & Miller, Inc.; Analysis by General Electric.

TABLE 10
 EAST STREET AREA 2
 GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
SOUTHSIDE PUMP STATION
SUBSURFACE PCB CONCENTRATIONS (PPM)

<u>Depth from Surface (ft)</u>	<u>Boring Number</u>						
	<u>B4</u>	<u>B5</u>	<u>B10</u>	<u>B12</u>	<u>B17</u>	<u>B19</u>	<u>B23</u>
0-2	595	319	7,111	16	1,040	4,857	184
2-4	2,190	22,549	11,863	3.132	12,200	6,829	1,442
4-6	949	17,500	46	3,750	53,307	3,929	<9
6-8	End of Boring	24,138	7,692	9,655	1,590	End of Boring	<11
8-10	End of boring	40,410	<5	End of boring		End of boring	
		End of boring	End of boring				

Notes:

1. Sampling dates 11/5/86 - 11/7/86
2. Samples collected by Geraghty & Miller, Inc.; analysis by General Electric.



LEGEND

● SOIL BORING

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
MCP PHASE II
EAST STREET AREA 2

LOCATION OF SOUTH
SIDE PUMP STATION
SOIL BORINGS



APPENDIX J, SECTION B-18

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Thermal Oxidizer Sampling
(Compensatory Storage Excavation For Fan)

Date: 06/05/90
File No: 101-75-10
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside the Thermal Oxidizer on 6/04/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS 8080

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
--------	------------------	-----------------	-----------------	-------------	--------------

TH-OX-C31	see OBG Lab Report	SOIL	C31	DISCRETE-GRAB	0"-2"
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VOC SAMPLING RESULTS METHOD 8240

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
--------	------------------	-----------------	-----------------	-------------	--------------

TH-OX-C31	see OBG Lab Report	SOIL	C31	DISCRETE-GRAB	0"-2"
-----------	--------------------	------	-----	---------------	-------

SEMI VOLATILES SAMPLING RESULTS METHOD 8270

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
--------	------------------	-----------------	-----------------	-------------	--------------

TH-OX-C31	see OBG Lab Report	SOIL	C31	DISCRETE-GRAB	0"-2"
-----------	--------------------	------	-----	---------------	-------

RCRA METALS RESULTS METHOD 6010-7000-S

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
--------	------------------	-----------------	-----------------	-------------	--------------

TH-OX-C31	see OBG Lab Report	SOIL	C31	DISCRETE-GRAB	0"-2"
-----------	--------------------	------	-----	---------------	-------

PHENOLIC COMPOUNDS SAMPLING RESULTS METHOD 9065

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
TH-OX-C31	see 086 Lab Report	SOIL	C31	DISCRETE-GRAB	0"-2"

TOTAL CYANIDE SAMPLING RESULTS METHOD 9010

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
TH-OX-C31	see 086 Lab Report	SOIL	C31	DISCRETE-GRAB	0"-2"

bee



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Thermal Oxidizer - Compensation Project No. 101-75-10
Storage - Soils
 DATE COLLECTED 6-4-90 DATE RECEIVED 6-5-90

Description	TH-OX-C31			
Sample No.	K3118			
EPTOX Metals:				
SILVER	<0.5			
ARSENIC	<0.5			
BARIIUM	<10.			
CADMIUM	<0.1			
CHROMIUM	<0.5			
MERCURY	<0.0005			
LEAD	<0.5			
SELENIUM	<0.1			
Other Analyses:				
PHENOL	<0.6			
TOTAL CYANIDE	<0.6			
PCB (Method 8080)	61.	AROCLOR		
PERCENT TOTAL SOLIDS	89.	1260		

Comments:

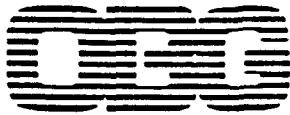
Certification No.: 10155

Units: Metals: mg/l

Others: mg/kg dry weight

Authorized: Anthony Casarj

Date: July 2, 1990



LABORATORIES, INC.

Purgeable Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Thermal Oxidizer - Compensation

Storage - Soils TH-OX-C31

SAMPLE NO. K3118 DATE COLLECTED 6-4-90 DATE REC'D. 6-5-90 DATE ANALYZED 6-7-90

ppb		ppb	
Chloromethane	<11.	t-1,3-Dichloropropene	<6.
Bromomethane		Trichloroethene	
Vinyl chloride		Benzene	
Chloroethane		Dibromochloromethane	
Methylene chloride	<6.	1,1,2-Trichloroethane	
1,1-Dichloroethene		c-1,3-Dichloropropene	
1,1-Dichloroethane		2-Chloroethylvinyl ether	<11.
t-1,2-Dichloroethene		Bromoform	<6.
Chloroform		1,1,2,2-Tetrachloroethane	
1,2-Dichloroethane		Tetrachloroethene	
1,1,1-Trichloroethane		Toluene	
Carbon tetrachloride		Chlorobenzene	
Bromodichloromethane		Ethylbenzene	
1,2-Dichloropropane		Xylenes	

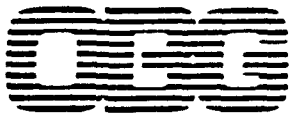
Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Comments:

Acetone	<u>23.</u>
Carbon disulfide	<u><6.</u>
2-Butanone	<u><11.</u>
Vinyl acetate	
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<u><6.</u>

UNITS: $\mu\text{g}/\text{kg}$ dry weight

Authorized: *Anthony C...*
Date: July 2, 1990



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Thermal Oxidizer - Compensation Project No. 101-75-10
Storage - Soils • TH-OX-C31

SAMPLE NO. K3118 DATE COLLECTED 6-4-90 DATE RECEIVED 6-5-90
 DATE EXTRACTED 6-8-90 DATE ANALYZED 6-11-90

Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	<370.
4-Methylphenol		2,6-Dinitrotoluene	<370.
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<370.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<370.

Authorized: *Anthony Lusconi*
 Date: July 2, 1990



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Thermal Oxidizer - Compensation Project No. 101-75-10
Storage - Soils TH-OX-C31
 SAMPLE NO. K3118 DATE COLLECTED 6-4-90 DATE RECEIVED 6-5-90
 DATE EXTRACTED 6-8-90 DATE ANALYZED 6-11-90

Hexachlorobenzene	<370.	Benzo (a) anthracene	<370.
Pentachlorophenol	<1800.	Chrysene	<370.
Phenanthrene	<370.	Bis (2-ethylhexyl) phthalate	940.B
Anthracene		Di-n-octylphthalate	<370.
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<740.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

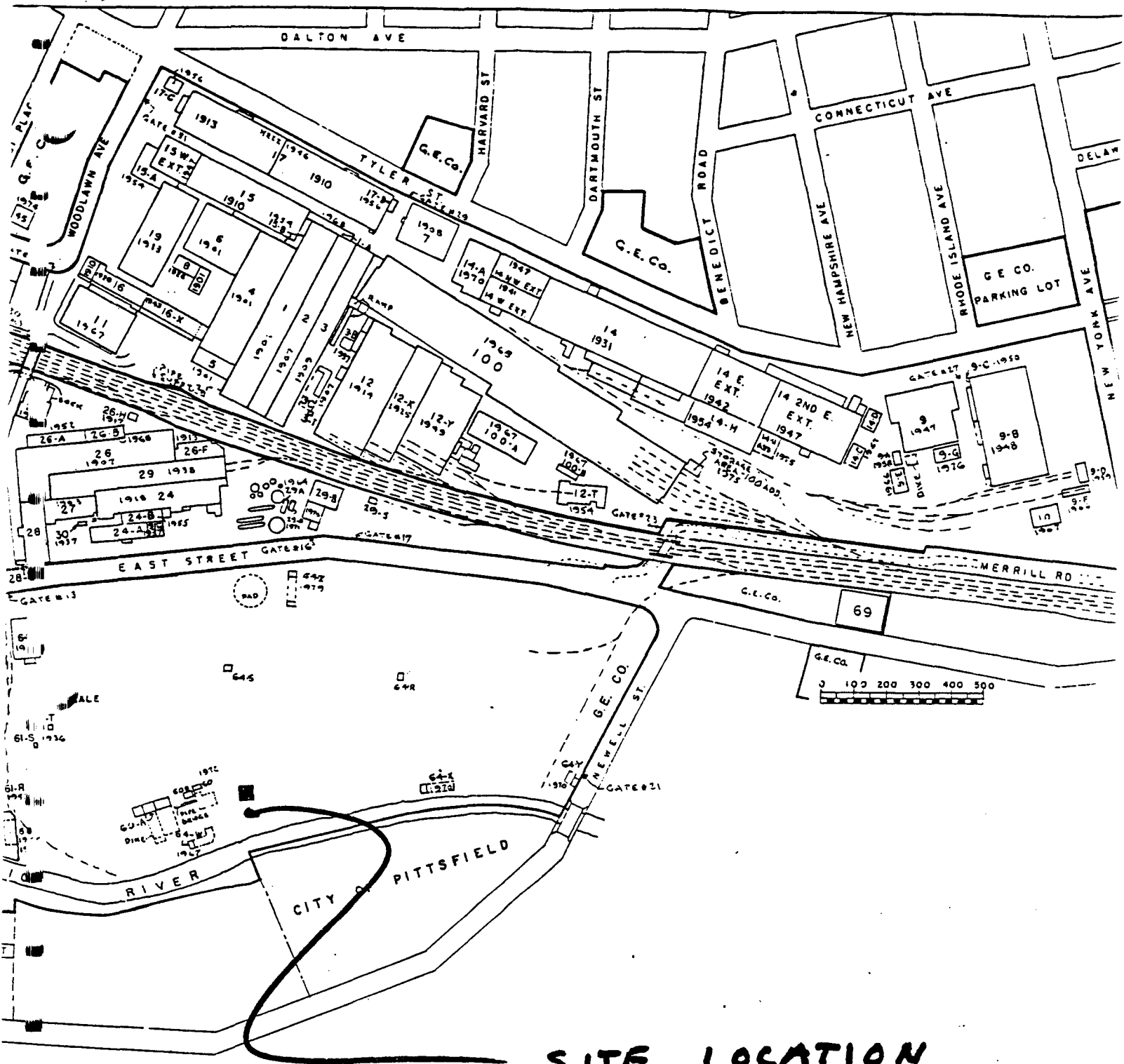
Methodology: EPA Target Compound List By 8270, SW-846
November 1986, 3rd Edition

Certification No.: 10155

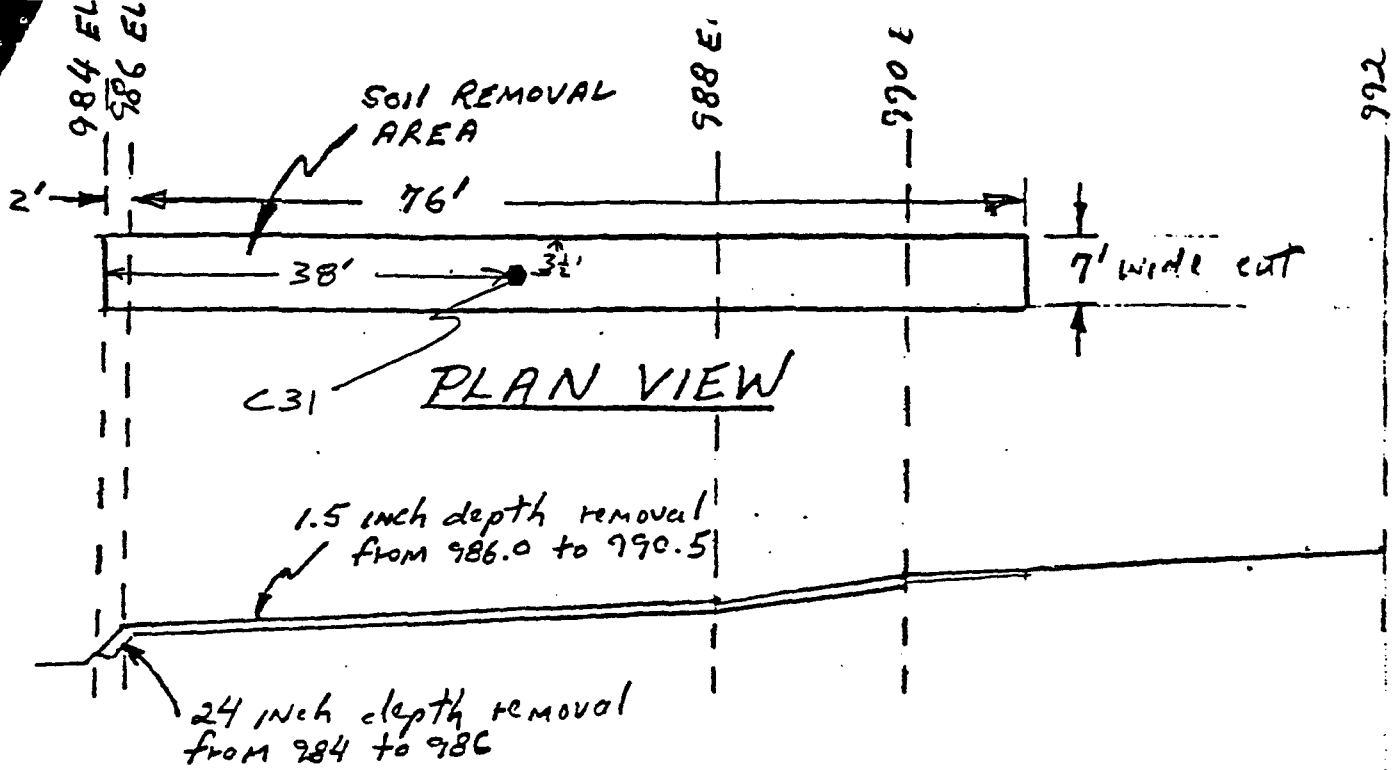
Units: µg/kg

Values flagged with a "B" indicate that the analyte was detected in the blank as well as the sample. The blank exhibited 860 µg/kg Bis (2-ethylhexyl) phthalate.

Authorized: *Anthony Curran*
Date: July 2, 1990



SITE LOCATION



ELEVATION SECTION A-A

THERMAL OXIDIZER SAMPLING
(COMPENSATORY STORAGE EXCAVATION FOR FAN)
101-75-10

● - SAMPLE LOCATION

Soil Removal Calculations

- Need .5 cubic yard removal per foot elevation

- Elevation 984.0 to 986.0

$$7' \text{ wide} \times 2' \text{ deep} \times 2.8' \text{ long} = 39.2 \text{ c.f. or } 1.45 \text{ ya}$$

- Elevation 986.0 to 990.5

$$7' \text{ wide} \times .125' \text{ deep} \times 76' \text{ long} = 66.5 \text{ c.f. or } 2.46 \text{ ya}$$

Total Removed 3.91 ya

G.E. Co

R.D.C.

3-21-90

DELIVERED TO
GRANT BOWMAN (GE)
11-30-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Thermal Oxidizer Sampling (Compensatory Storage Excavation For Fan)

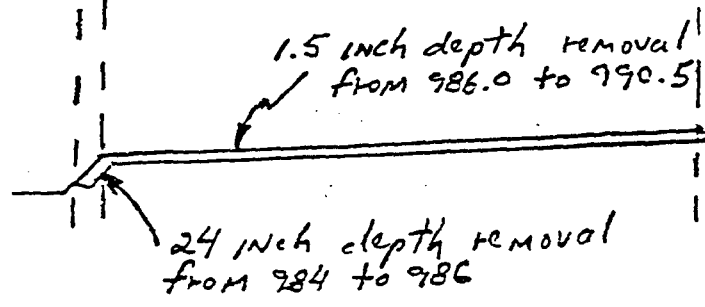
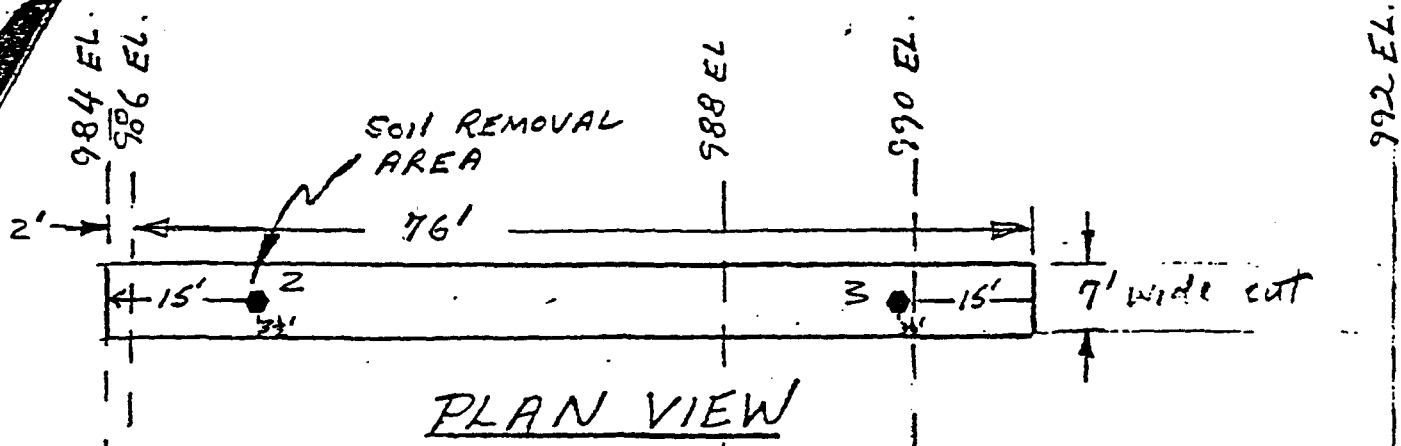
Date: 11/02/90
File No: 101-75-10
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside the Thermal Oxidizer on 11/02/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OSG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
TH-OX-38	320.0	2	SOIL	DISCRETE-GRAB	0'-1'
TH-OX-39	5.2	3	SOIL	DISCRETE-GRAB	0'-1'

bee



ELEVATION SECTION A-A

THERMAL OXIDIZER SAMPLING
(COMPENSATORY STORAGE EXCAVATION
FOR FAN)

101-75-10

● - SAMPLE LOCATION

Soil Removal Calculations

- Need .5 cubic yard removal per foot elevation
- Elevation 984.0 to 986.0

$$7' \text{ wide} \times 2' \text{ deep} \times 2.8' \text{ long} = 39.2 \text{ c.f. or } 1.45 \text{ yd}$$

- Elevation 986.0 to 990.5

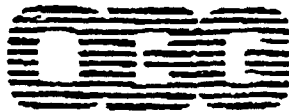
$$7' \text{ wide} \times .125' \text{ deep} \times 76' \text{ long} = 66.5 \text{ c.f. or } 2.46 \text{ yd}$$

Total Removal 3.91 yd

G.E. Co

R.D.C.

3-21-90



LABORATORIES, INC.

PRELIMINARY

CLIENT Blastans & Brock Engineers
 DESCRIPTION Thermal Oxidizer Project

DATE ANALYZED: 11/6/90 DATE COLLECTED: 11-2-90

	Sample #	PCB Method 8080
JH-0X-C38	62744	320.
↓ C39	↓ 45	5.2

Comments:

Certification

Units:

Authorized:

Date:

APPENDIX J, SECTION B-19

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files

Date: 1/12/90

From: Robert W. Rhoades

File No: 101-75-10

Re: Thermal Oxidizer Sampling

cc: Grant Bowman

Combustion Air Duct Soil Sampling (Footings)

The following is a summary of the sample results for the PCB sampling program conducted on at the Thermal Oxidizer Plant on 1/5/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM (See Note)	SAMPLE LOCATION	SAMPLE MATERIAL	NUMBER OF SAMPLES IN COMPOSITE	SAMPLE TYPE
TH-OX-C28	79	C28	SOIL	5	COMPOSITE-GRAB
TH-OX-C29	103	C29	SOIL	5	COMPOSITE-GRAB
TH-OX-C30	8.3	C30	SOIL	5	COMPOSITE-GRAB

NOTE: SOIL SAMPLES WERE COLLECTED ON A DISCRETE SAMPLE BASIS (ONE SAMPLE PER EACH LOCATION) SAMPLES WERE SENT TO THE LAB WITH THE INSTRUCTIONS TO COMPOSITE EQUAL WEIGHTS AND ANALYZE FOR TOTAL PCB'S. RESULTS REPORTED ABOVE ARE FOR COMPOSITE SAMPLES.



1404

Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-10

DATE COLLECTED See Below DATE REC'D. 1/5/90 DATE ANALYZED 1/8/90 → 1/9/90

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS (%)	Total PCB mg/Kg dry wt	COMMENTS	QC RESULTS
TH-ox-c28	1/8/90	1/5/90	67	85.3	79	soil comp ↓	A ↓
↓ c29	↓	↓	88	85.8	103		
↓ c30	↓	↓	7.3	88.2	8.3		
A) Duplicate of TH-ox-c30			17	88.2	19 vs	8.3	90 RPD=78

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

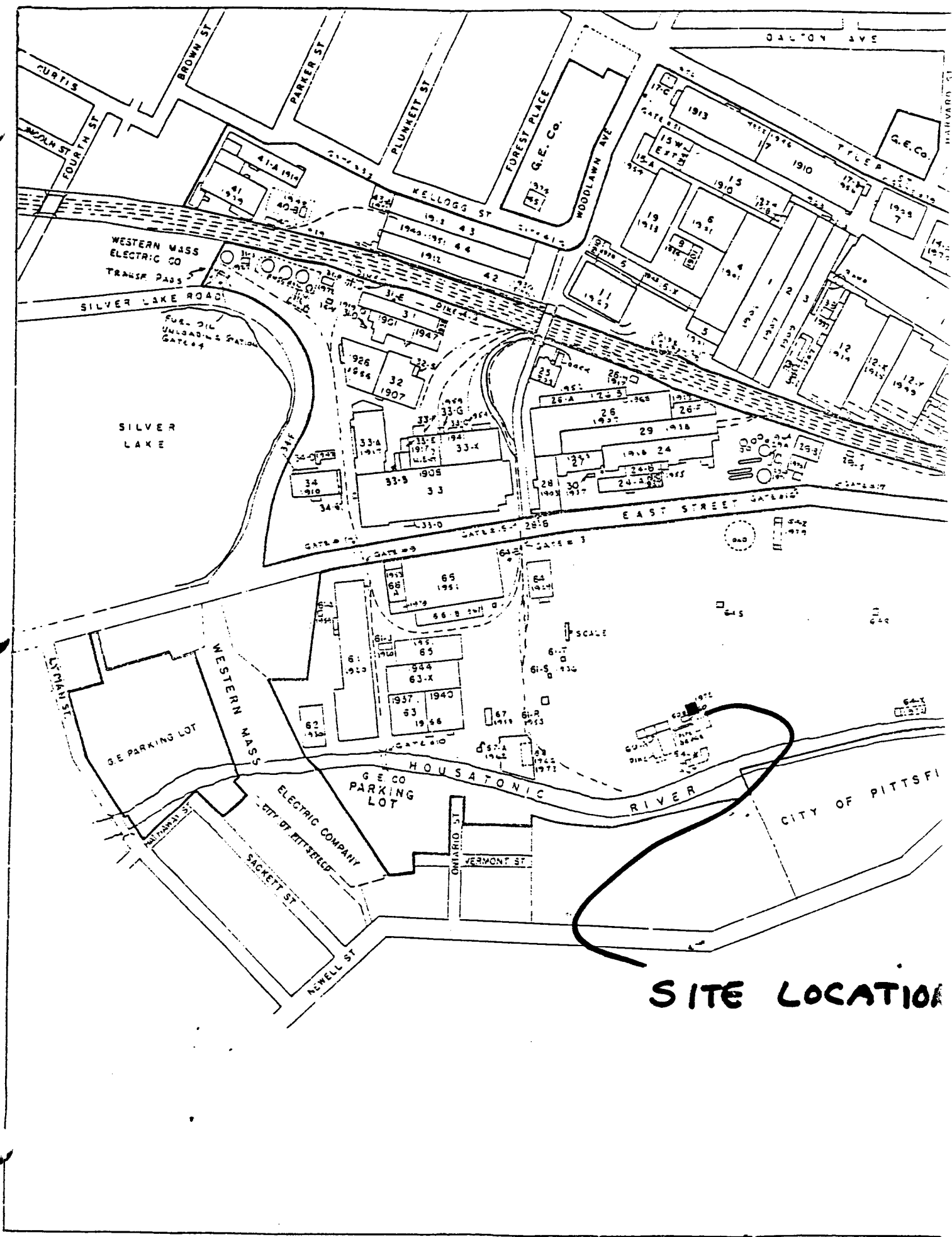
Units: mg/l (ppm) unless otherwise noted

Comments:

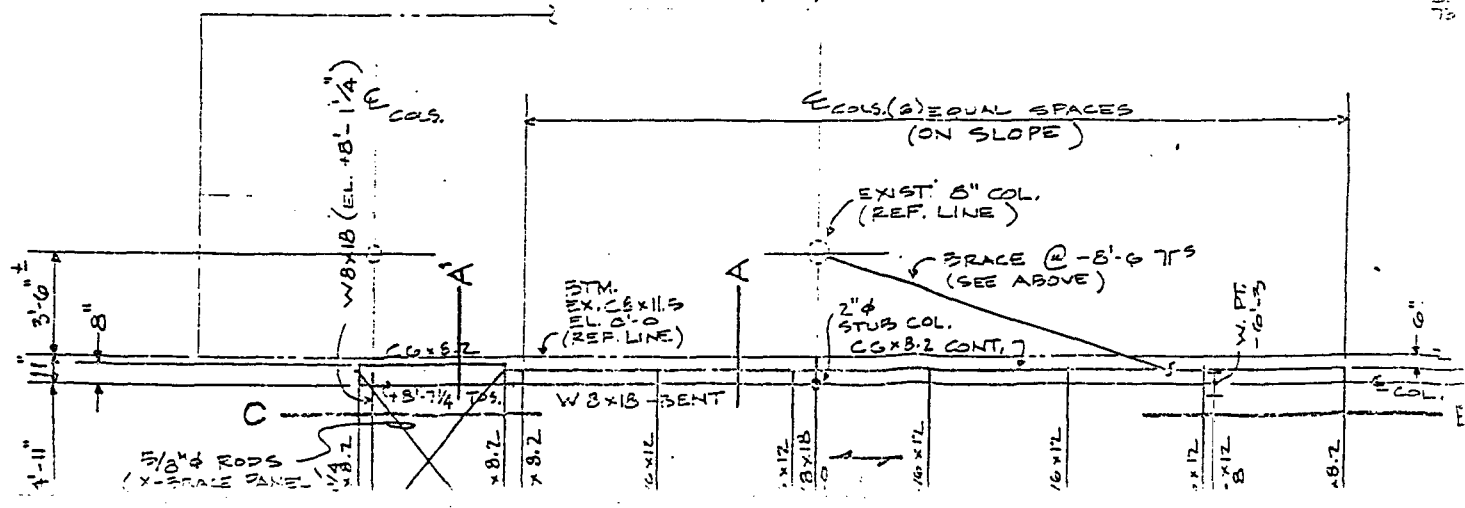
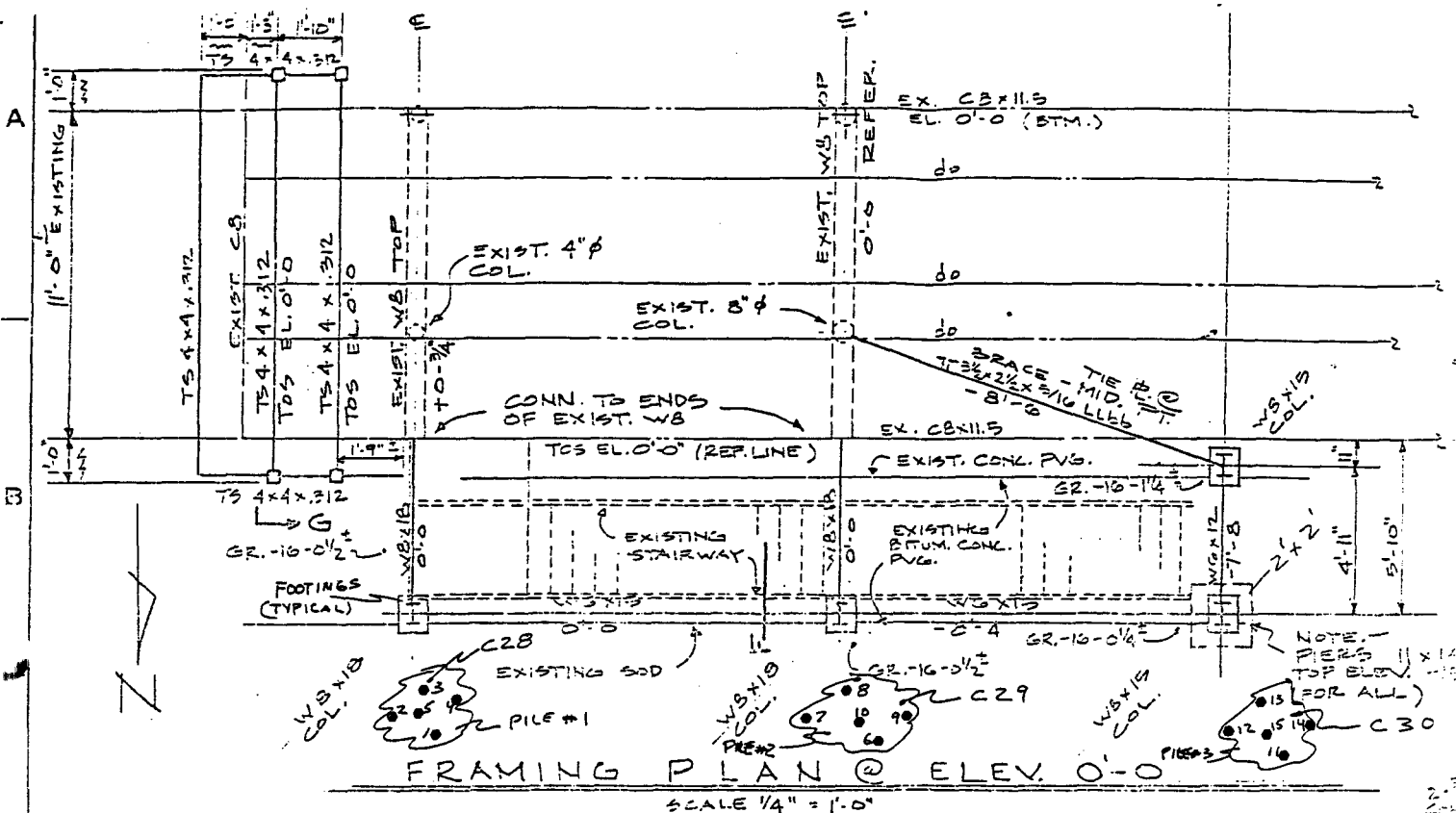
Authorized: _____

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Date: _____



SITE LOCATION



72
73

APPENDIX J, SECTION B-20

DELIVERED TO
GRANT BOWMAN (GE)
11-6-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Thermal Oxidizer Sampling

Date: 09/20/90
File No: 101-75-10
cc: Grant Bowman (GE)
Jeff Ruebesam (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside Bldg. 60-A on 08/17/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by ORG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
TH-OX-C35	1400.0	1	SOIL	DISCRETE-GRAB	0'-1'
TH-OX-C36	45.0	1	SOIL	DISCRETE-GRAB	1'-2'
TH-OX-C37	62.0	1	SOIL	DISCRETE-GRAB	2'-3'



Turnaround!

PRELIMINARY

SECTION LEADER: M.C.
Laboratory Report

BIN #: 79.

CLIENT: Blasland & Buck Engineers JOB NO. 2887.026.517
DESCRIPTION: Thermal Oxidizer. MATRIX: Solid.
Job # 101-75-10
Date analyzed: 8/30/90 DATE COLLECTED 8-17-90 DATE RECEIVED 8-30-90

Sample #	PCB	PCTS	Arachn
H9628	1400	83	1260
↓ 29	45	89	1260
↓ 30	62		25

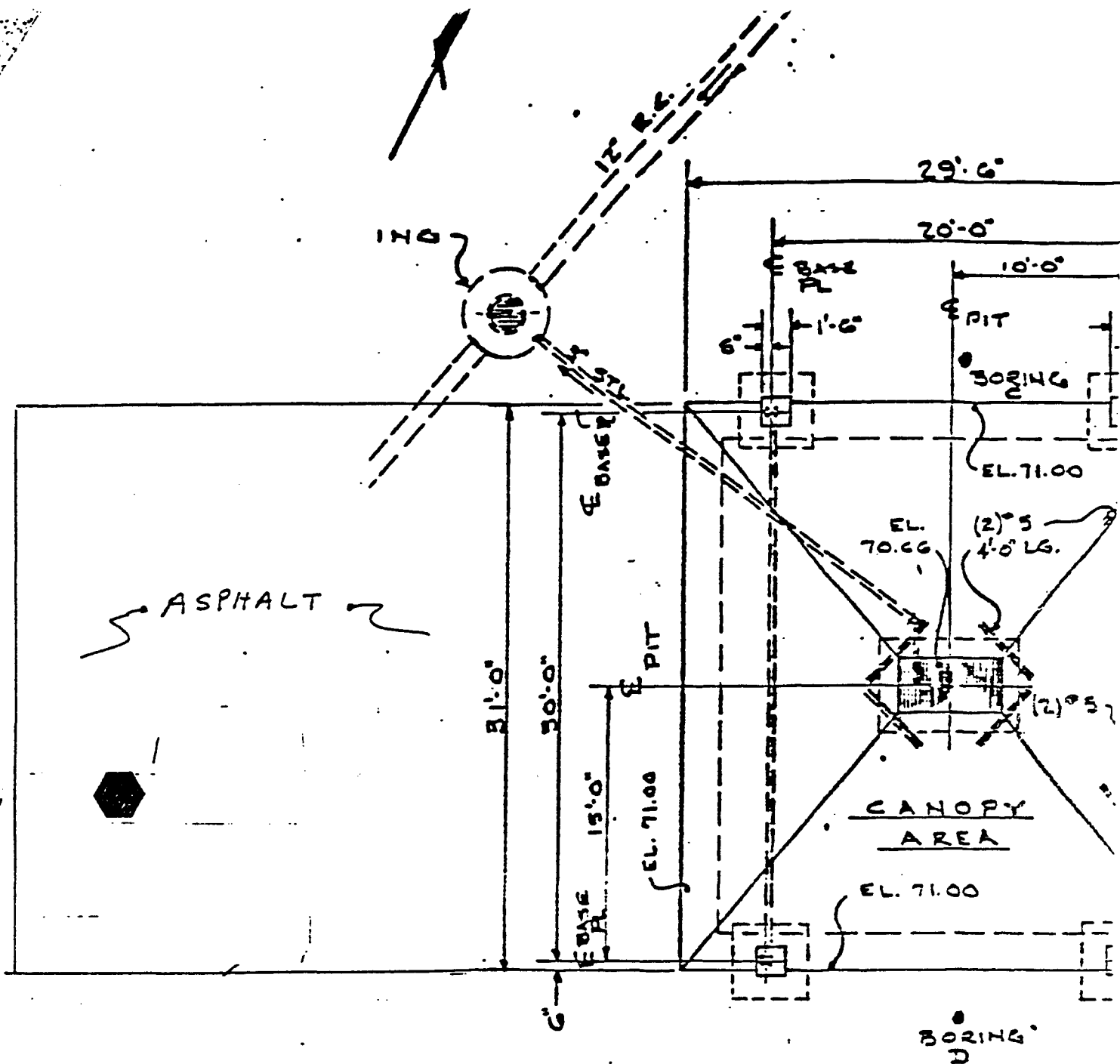
T11-0X-C35
C36
↓
C37

Comments:

Certification No.: 10155
Units: mg/kg dry wt.

Authorized: _____

Date: _____



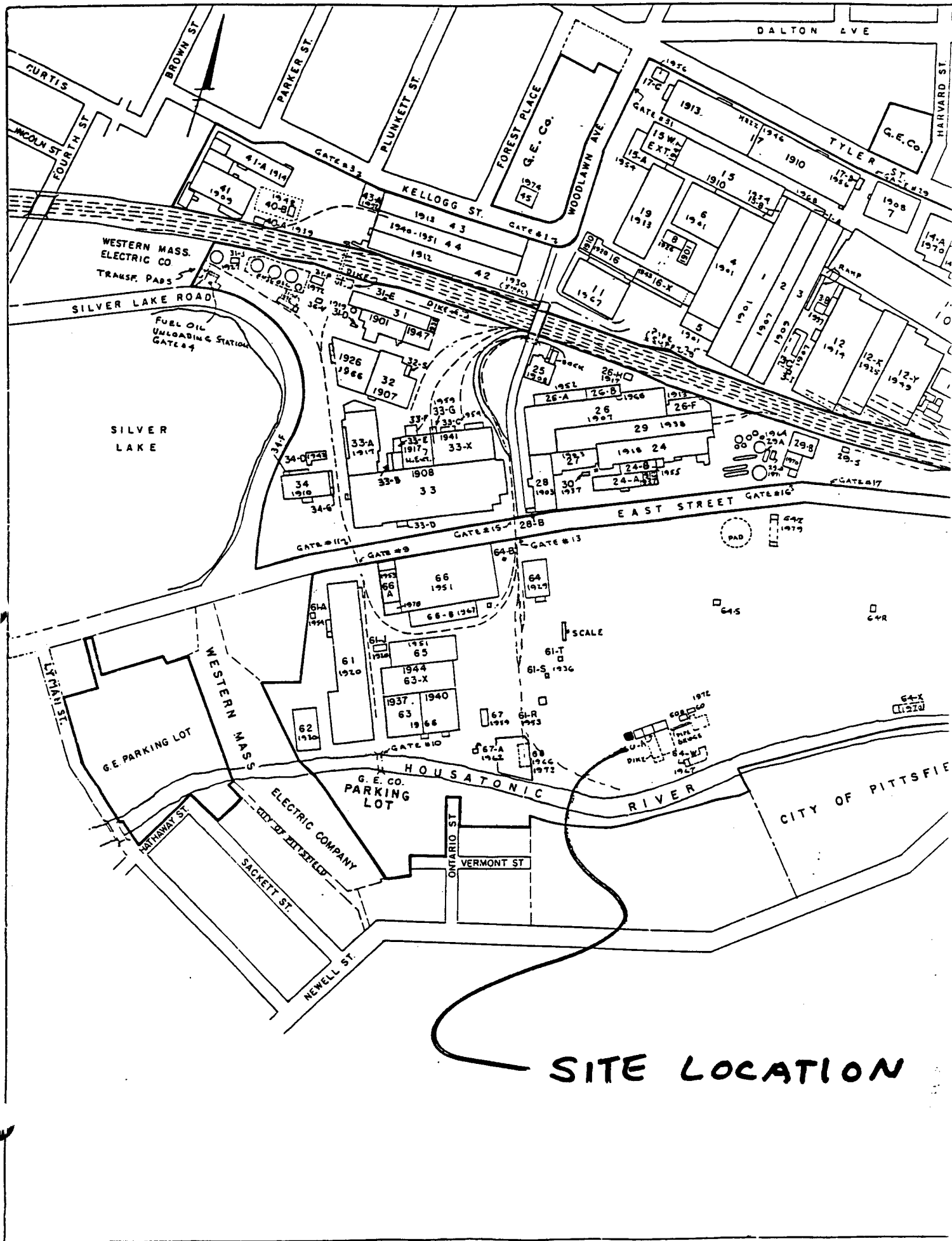
THERMAL OXIDIZER SAMPLING

101-75-10

— SAMPLE LOCATION

P

FIGURE 1



SITE LOCATION

APPENDIX J, SECTION B-21

SLASLAND AND BOUCK ENGINEERS P.C.

PRELIMINARY

DELIVERED TO GRANT
BOWMAN (GE) 3-27-92

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Bldg 60 (Outside) Condensate Drain Pipe Sampling

Date: 2-14-92
File No: 101-75-17
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on 1-17-92 from soil generated during replacement of a condensate drain pipe outside Bldg 60. At location #1 the soil was put back into the trench excavation before it was sampled. The soil that was removed (location #2) and left out of the trench excavation, was taken to the MRC Yard where it was placed on poly and covered with poly.

* Location #1 - Approx 0.4 cu yds of soil

* Location #2 - Approx 0.3 cu yds of soil

At the request of Aimee Cole (GE), the following sampling was performed at the two soil piles.

* Location #1 - 4 discrete grab samples of soil

* Location #2 - 4 discrete grab samples of soil

A summary table of the sampling program results has been provided (Table 1), as well as a drawing showing the two site locations (Figure 1) and sample locations (Figures 2 & 3). A preliminary analytical report provided by OBB Laboratories for PCB's Method 8080 and final laboratory reports from OBB Laboratories for VOC's Method 8240, TCLP for Metals (no herbicides or pesticides), Cyanides Method 9010 and Semi-Volatiles Method 8270 have also been included (Attachment 1).

Bldg 60 (Outside) Condensate Drain Pipe
Replacement Sampling
101-75-17

PRELIMINARY
MAR 10 1992

TABLE 1

SAMPLE LOCATION	LAB-ID	SAMPLE DATE	TOTAL PCB's METHOD 8090 PPM	VOC's METHOD 8240	SEMI- VOLATILES METHOD 8270	CYANIDE METHOD 9010	TCLP FOR METALS	PHENOL METHOD 8040	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
1	60-CPD-C1	01-17-92	15.0	----	----	----	----	----	SOIL	DISCRETE-GRAB	0-16"	2
1	60-CPD-C2	01-17-92	----	----	----	----	----	----	SOIL	DISCRETE-GRAB	0-16"	2
1	60-CPD-C3	01-17-92	----	----	----	----	SEE OBG LAB REPORT	----	SOIL	DISCRETE-GRAB	0-16"	2
1	60-CPD-C4	01-17-92	----	----	----	----	----	*	SOIL	DISCRETE-GRAB	0-16"	2
2	60-CPD-C5	01-17-92	35.0	----	----	----	----	----	SOIL	DISCRETE-GRAB	0-12"	3
2	60-CPD-C6	01-17-92	----	----	----	----	----	----	SOIL	DISCRETE-GRAB	0-12"	3
2	60-CPD-C7	01-17-92	----	----	----	----	SEE OBG LAB REPORT	----	SOIL	DISCRETE-GRAB	0-12"	3
2	60-CPD-C8	01-17-92	----	----	----	----	----	*	SOIL	DISCRETE-GRAB	0-12"	3

* Note: Sample to be analyzed only if Phenols are detected during analysis for Semi-Volatiles Method 8270.



3585

PRELIMINARY

JAN 22 1992

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-17

Bldg 60 Condensate Drain Pipe (Soil) Sampling

Date Analyzed 1/21/92 DATE COLLECTED See Below DATE RECEIVED 1/17/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
60-CDP-C1	1/20/92	1/17/92	13	89	15	soil	A
60-CDP-C5	↓	↓	30	85	35	↓	↓
A) Reagent Blank 1:					<1		
Reference Sample 1:					2.8/3.3 =	84%	
Matrix Spike G-19-SL-C2:					2.9/3.3 =	88%	
Matrix Spike Duplicate:					2.7/3.3 =	82%	
Precision:					2.9 vs 2.7 =	7.1% RPD	

Comments:

Certification No.:

Units: ug/g = ppm

Authorized: _____

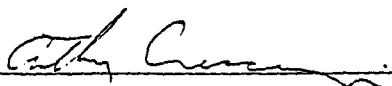
Date: _____



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
DESCRIPTION Bldg. 60 Condensate Drain Pipe Sampling B & B # 101-75-17
Pittsfield, MA MATRIX: Soil
DATE COLLECTED 1-17-92 DATE RECEIVED 1-20-92 DATE ANALYZED 1-29-92

DESCRIPTION:	60-CPD-C2	60-CPD-C6			
SAMPLE NO.:	P1190	P1193			
Chloromethane	<11.	<11.			
Bromomethane	↓	↓			
Vinyl chloride					
Chloroethane	↓	↓			
Methylene chloride	<6.	<6.			
Acetone	<11.	42.			
Carbon disulfide	<6.	<6.			
1,1-Dichloroethene					
1,1-Dichloroethane					
1,2-Dichloroethene (total)					
Chloroform					
1,2-Dichloroethane	↓	↓			
2-Butanone	<11.	<11.			
1,1,1-Trichloroethane	<6.	<6.			
Carbon tetrachloride	<6.	<6.			
Vinyl acetate	<11.	<11.			
Bromodichloromethane	<6.	<6.			
1,2-Dichloropropane	↓	↓			
cis-1,3-Dichloropropene					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene	↓	↓			

Authorized: 
Date: March 13, 1992



Volatile Organics Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 60 Condensate Drain Pipe Sampling B & B # 101-75-17
Pittsfield, MA MATRIX: Soil
 DATE COLLECTED 1-17-92 DATE RECEIVED 1-20-92 DATE ANALYZED 1-29-92

DESCRIPTION:	60-CPD-C2	60-CPD-C6
SAMPLE NO.:	P1190	P1193
trans-1,3-Dichloropropene	<6.	<6.
Bromoform	<6.	<6.
4-Methyl-2-pentanone	<11.	<11.
2-Hexanone	<11.	<11.
Tetrachloroethene	<6.	<6.
1,1,2,2-Tetrachloroethane	<6.	<6.
Toluene	8.	10.
Chlorobenzene	<6.	<6.
Ethylbenzene	↓	↓
Styrene		
Xylene (total)	↓	↓
PERCENT TOTAL SOLIDS	88.	86.

Comments:

Methodology: EPA Target Compound List By 8240, SW-846
November 1986, 3rd Edition

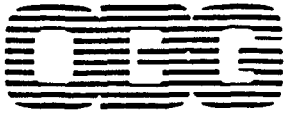
Certification No.: NY034

Units: µg/kg dry weight

Page 2 of 2

Authorized: *Cathy...*

Date: March 13, 1992



LABORATORIES, INC.

Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 60 Condensate Drain Pipe (Soil) Sampling-Pittsfield, MA B & B # 101.75.17
60-CPD-C3 MATRIX: Soil
 SAMPLE NO. P1191 DATE COLLECTED 1-17-92 DATE RECEIVED 1-20-92
 DATE EXTRACTED 1-22-92 DATE ANALYZED 1-27-92

Phenol	<380.	4-Chloro-3-methylphenol	<380.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<380.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<380.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<380.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<380.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<380.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<380.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<380.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 60 Condensate Drain Pipe (Soil) Sampling-Pittsfield, MA B & B # 101.75.17
60-CPD-C3 MATRIX: Soil
 SAMPLE NO. P1191 DATE COLLECTED 1-17-92 DATE RECEIVED 1-20-92
 DATE EXTRACTED 1-22-92 DATE ANALYZED 1-27-92

Hexachlorobenzene	<380.	Benzo (a) anthracene	400.
Pentachlorophenol	<1800.	Chrysene	450.
Phenanthrene	510.	Bis (2-ethylhexyl) phthalate	<380.
Anthracene	<380.	Di-n-octylphthalate	<380.
Di-n-butylphthalate	<380.	Benzo (b) fluoranthene	550.
Fluoranthene	890.	Benzo (k) fluoranthene	400.
Pyrene	720.	Benzo (a) pyrene	440.
Butylbenzylphthalate	<380.	Indeno (1,2,3-cd) pyrene	<380.
3,3'-Dichlorobenzidine	<750.	Dibenz (a,h) anthracene	<380.
		Benzo (g,h,i) perylene	<380.

Comments:

PERCENT TOTAL SOLIDS 88.
 CYANIDE (mg/kg dry weight) <0.6

Methodology: EPA Target Compound List By 8270, SW-846
 November 1986, 3rd Edition

Certification No.: NY034
 Units: µg/kg dry weight unless
 otherwise noted

Authorized: *Anthony Curran*
 Date: March 13, 1992



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 60 Condensate Drain Pipe (Soil) Sampling-Pittsfield, MA B & B # 101.75.17
60-CPD-C7 MATRIX: Soil
 SAMPLE NO. P1194 DATE COLLECTED 1-17-92 DATE RECEIVED 1-20-92
 DATE EXTRACTED 1-22-92 DATE ANALYZED 1-27-92

Phenol	<390.	4-Chloro-3-methylphenol	<390.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<390.
1,2-Dichlorobenzene		2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<390.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1900.
Hexachloroethane		Acenaphthene	460.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone		4-Nitrophenol	<1900.
2-Nitrophenol		Dibenzofuran	430.
2,4-Dimethylphenol		2,4-Dinitrotoluene	<390.
Benzoic acid	<1900.	Diethylphthalate	<390.
Bis (2-chloroethoxy) methane	<390.	4-Chlorophenyl-phenylether	<390.
2,4-Dichlorophenol		Fluorene	720.
1,2,4-Trichlorobenzene		4-Nitroaniline	<1900.
Naphthalene		4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline		N-Nitrosodiphenylamine	<390.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<390.



Semivolatile Organics Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION Bldg. 60 Condensate Drain Pipe (Soil) Sampling-Pittsfield, MA B & B # 101.75.17
60-CPD-C7 MATRIX: Soil
 SAMPLE NO. P1194 DATE COLLECTED 1-17-92 DATE RECEIVED 1-20-92
 DATE EXTRACTED 1-22-92 DATE ANALYZED 1-27-92

Hexachlorobenzene	<390.	Benzo (a) anthracene	1400.
Pentachlorophenol	<1900.	Chrysene	1300.
Phenanthrene	3200.	Bis (2-ethylhexyl) phthalate	<390.
Anthracene	950.	Di-n-octylphthalate	<390.
Di-n-butylphthalate	<390.	Benzo (b) fluoranthene	<390.
Fluoranthene	2900.	Benzo (k) fluoranthene	2700.
Pyrene	4000.	Benzo (a) pyrene	1200.
Butylbenzylphthalate	<390.	Indeno (1,2,3-cd) pyrene	710.
3,3'-Dichlorobenzidine	<780.	Dibenz (a,h) anthracene	<390.
		Benzo (g,h,i) perylene	740.

Comments:

PERCENT TOTAL SOLIDS 85.
 CYANIDE (mg/kg dry weight) <0.6

Methodology: EPA Target Compound List By 8270, SW-846
 November 1986, 3rd Edition

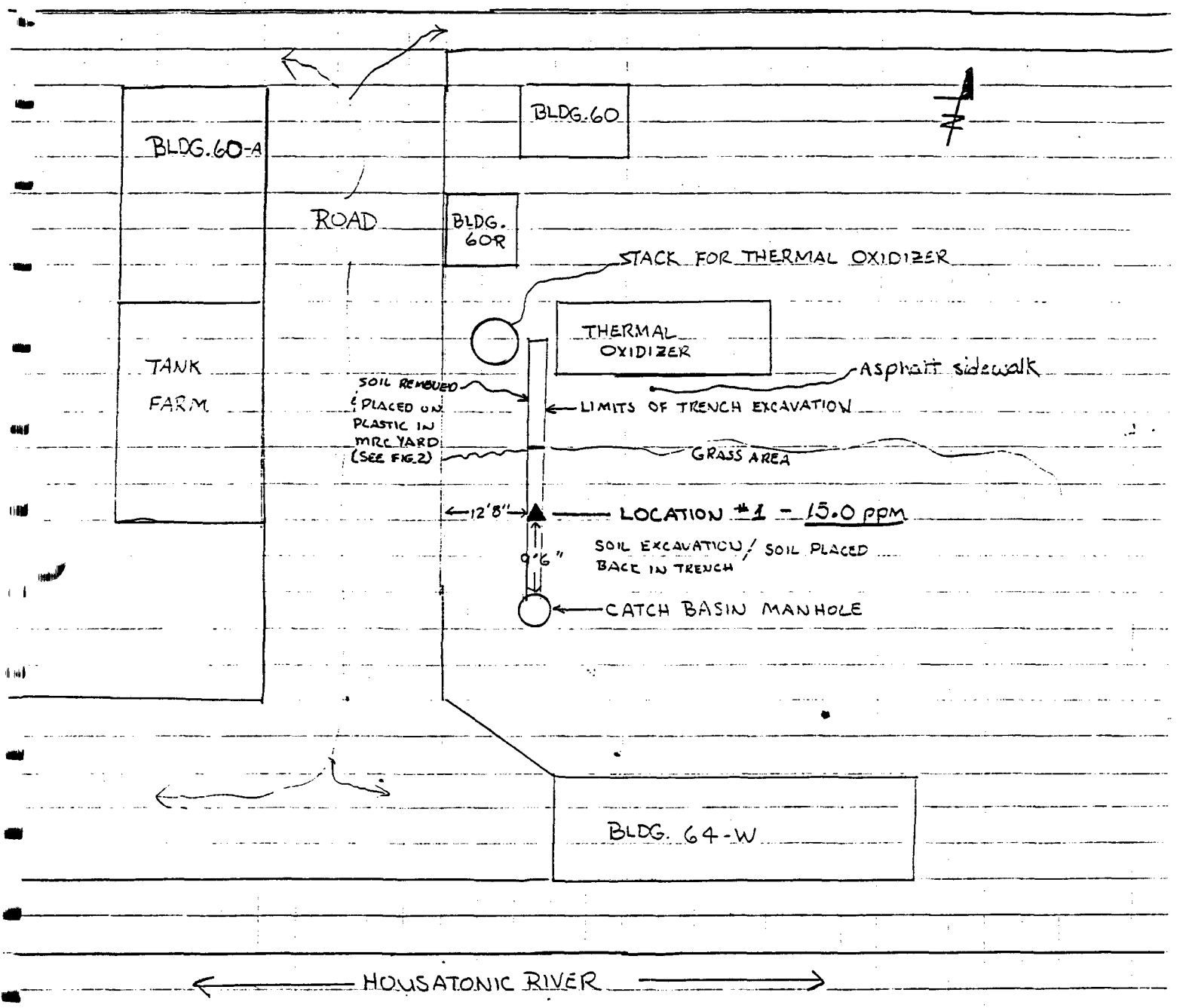
Certification No.: NY034

Units: µg/kg dry weight unless
 otherwise noted

SUBJECT BLDG. 60 (OUTSIDE)	PROJ. NO.	BY	DATE	SHEET
CONDENSATE DRAIN PIPE (SOIL) SAMPLING	101-75-17	AGP	1-17-92	1 of 2

NOT TO SCALE

FIGURE #2



▲ - SAMPLE LOCATION

BLDG. 60 (outside) CONDENSATE DRAIN PIPE (soil) SAMPLING (LOCATION # 1)

101-75-17

PROJECT BLDG. 60 (OUTSIDE)

PROJ. NO.

BY

DATE

SHEET

CONDENSATE DRAIN PIPE (SOIL) SAMPLING

101-75-17

AGP

1-17-92

2 of 2

NOT TO SCALE

FIGURE # 3



MRC YARD

SOIL PILE

LOCATION # 2 - 35.0 ppm

BLDG.
68

HOUSATONIC RIVER

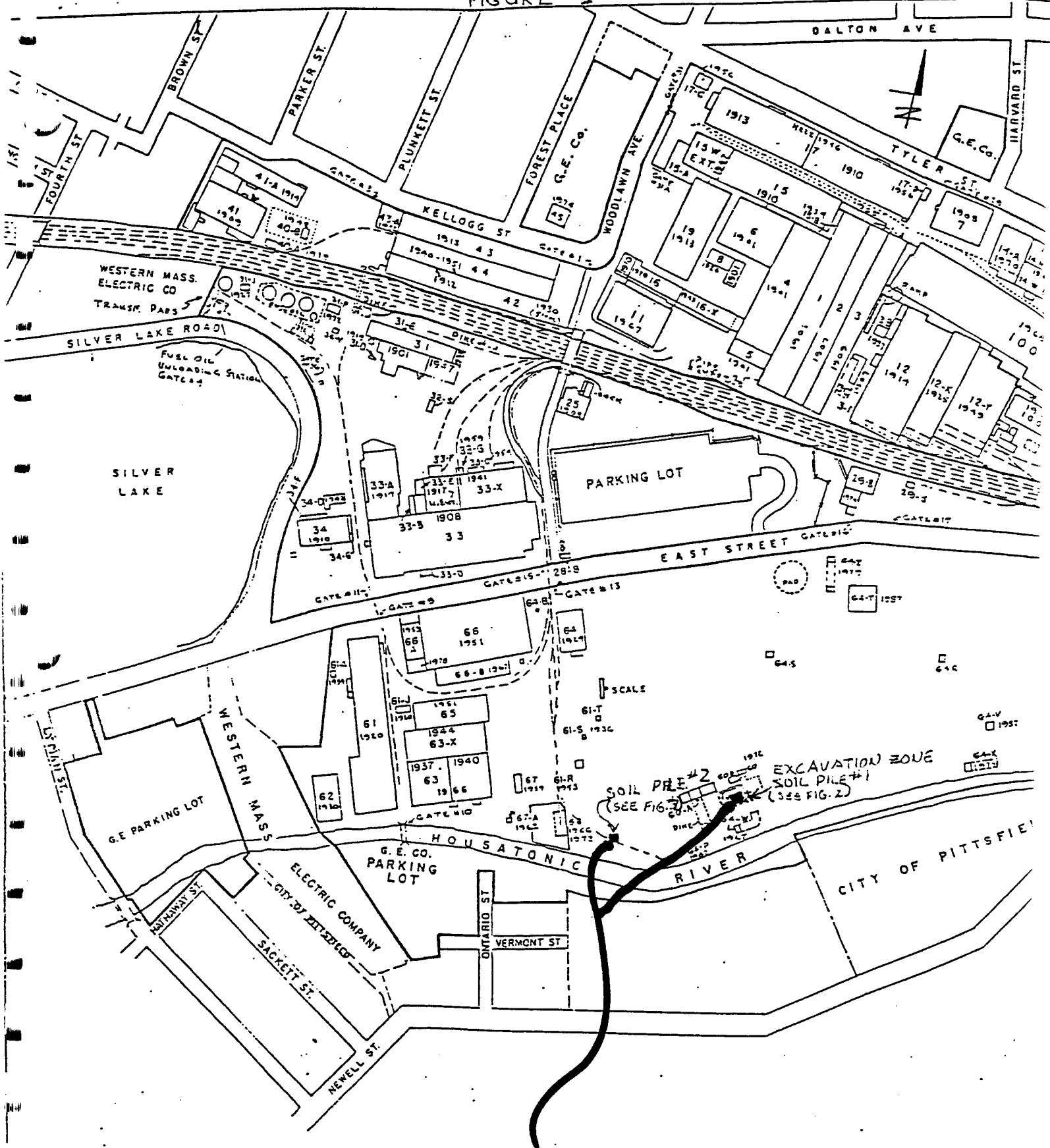
▲ - SAMPLE LOCATION

BLDG. 60 (outside) CONDENSATE
DRAIN PIPE (soil) SAMPLING

(LOCATION # 2)

101-75-17

FIGURE #1



SITE LOCATIONS

APPENDIX J, SECTION B-22

DELIVERED TO
GRANT BOWMAN
11-6-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Excavation for Parking Lot Sampling

Date: 11/02/90
File No: 101-93-11
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted on East St. on 09/24/90. A drawing showing the sample location is attached (see figure 1,2). An analytical Report provided by OBG Laboratories has also been included.

TCLP SAMPLING RESULTS

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
EAST-ST-PL-C7	see OBG Lab Report	C7	SOIL	DISCRETE-GRAB	0'-2'
EAST-ST-PL-C8	see OBG Lab Report	C8	SOIL	DISCRETE-GRAB	0'-2'
EAST-ST-PL-C9	see OBG Lab Report	C9	SOIL	DISCRETE-GRAB	0'-2'

bee



Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C.

JOB NO. 2887.026.517

DESCRIPTION East St. Sampling, Pittsfield, Mass.

B & B # 101.93.11

Toxicity Characteristic Leaching Procedure

DATE COLLECTED 9-25-90

DATE RECEIVED 9-26-90

Description:	East St. PL-C7	East St. PL-C8	East St. PL-C9
Sample #	L0487	L0488	L0489
TCLP Metals:			
ARSENIC	<0.05	<0.05	<0.05
BARIUM	<10.	<10.	<10.
CADMIUM	<0.1	<0.1	<0.1
CHROMIUM	<0.5	<0.5	<0.5
LEAD	<0.5	<0.5	<0.5
MERCURY	<0.0005	<0.0005	<0.0005
SELENIUM	<0.1	<0.1	<0.1
SILVER	<0.5	<0.5	<0.5
Other Analysis:			
PERCENT TOTAL SOLIDS	91.	85.	86.

Comments:

Certification No.: NY034

Units: mg/l

Authorized: *Anthony Curran*

Date: October 23, 1990



Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION East St. Sampling, Pittsfield, Mass. B & B # 101.93.11
Toxicity Characteristic Leaching Procedure
 DATE COLLECTED 9-25-90 DATE RECEIVED 9-26-90

Description:

Sample #

East St. PL-C7	East St. PL-C8	East St. PL-C9
-------------------	-------------------	-------------------

L0487	L0488	L0489
-------	-------	-------

TCLP Volatile Organics:

BENZENE	<0.01	<0.01	<0.01
CARBON TETRACHLORIDE			
CHLOROBENZENE			
CHLOROFORM			
1,2-DICHLOROETHANE			
1,1-DICHLOROETHYLENE			
METHYL ETHYL KETONE	<0.6	<0.6	<0.6
TETRACHLOROETHYLENE	<0.01	<0.01	<0.01
TRICHLOROETHYLENE			
VINYL CHLORIDE			

Analytical Record:

Date Leachate Created: 10-1-90

Date Analyzed: 10-4,5-90

Comments:

Certification No: NY034

Units: mg/l

Authorized: *Anthony C...*

Date: October 23, 1990



PRELIMINARY

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517
 DESCRIPTION East St. Sampling, Pittsfield, Mass. B & B # 101.93.11
Toxicity Characteristic Leaching Procedure
 DATE COLLECTED 9-25-90 DATE RECEIVED 9-26-90

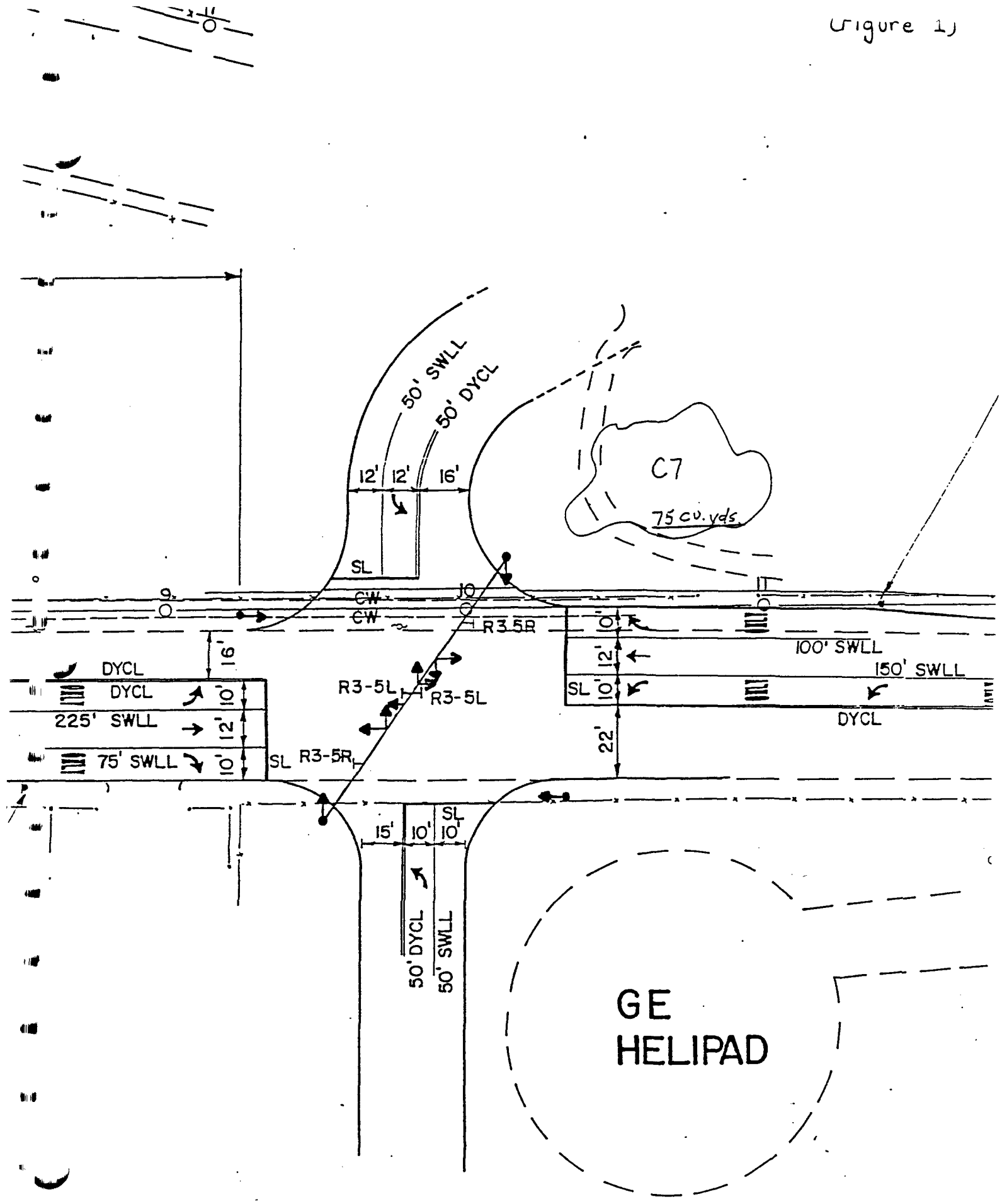
Description:	East St. PL-C7	East St. PL-C8	East St. PL-C9
Sample #	L0487	L0488	L0489
TCLP Semivolatile Organics:			
o-CRESOL	<0.011	<0.011	<0.012
m-CRESOL			
p-CRESOL			
CRESOL, TOTAL			
1,4-DICHLOROBENZENE			
2,4-DINITROROLUENE			
HEXACHLOROBENZENE			
HEXACHLOROBUTADIENE			
HEXACHLOROETHANE			
NITROBENZENE			
PENTACHLOROPHENOL	<0.057	<0.056	<0.058
PYRIDINE	<0.11	<0.11	<0.12
2,4,5-TRICHLOROPHENOL	<0.057	<0.056	<0.058
2,4,6-TRICHLOROPHENOL	<0.011	<0.011	<0.012
Analytical Record:			
Date Leachate Created:	10-5-90		
Date Extracted:	10-8-90	10-9-90	10-8-90
Date Analyzed:	10-9-90	10-11-90	10-9-90

Comments:

Certification No.: NY034
 Units: mg/l

Authorized: *[Signature]*
 Date: October 23, 1990

Figure 1)

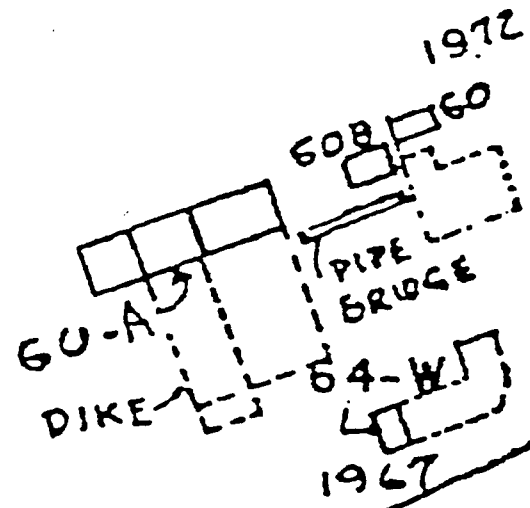


(Figure 2)

□ 64.S

SCALE

SI-T
□
1936



RIVER

CIT.

APPENDIX J, SECTION B-23

BLASLAND & BOUCK ENGINEERS, P.C.
(REQUEST FOR SAMPLING)

TO: Files

DATE: 4-16-93

FROM: Bruce Eulian

FILE NO: 201.16.12

RE: Bldg 64X Electrical Line Repair
Sampling Program

INITIATOR: Aimee Cole (GE)

DATE: 4-8-93

BLDG LOCATION: 64X (outside)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect soil samples for GE to determine the proper disposal method of the soil that will be excavated during the Bldg 64X Electrical Line Repair located outside Bldg 64X.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE): (see attached letter dated 4-8-93)

1.) Three (3) discrete-grab soil samples for the Bldg 64X Electrical Line Repair located outside Bldg 64X are to be sampled and analyzed for PCB's using Method 8080. Also, one (1) field-composite soil sample is to be sampled and analyzed for VOC's using Method 8240, Semi-Volatiles using Method 8270, Cyanides using Method 9010 and TCLP (Metals only) using Method 1311.

2.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

3.) GE requests the samples collected be analyzed at the ORG Laboratory in Syracuse, NY.

April 8, 1993

SAMPLE REQUEST

To: B. Eulian - B & B

From: A. Cole - GEC

RE: Bldg. ^{64X}~~64V~~ Electrical Line Repair Grid T15, U15

Bill Carter will be excavating in the area of 64V to repair a break in an electrical line. He estimates that a trench 20 ft long by 2 ft wide by 3 feet deep will be removed and stockpiled at the site of the excavation. The total amount of soil to be removed will be around 4 cubic yards.

This excavation is in area 2 and is considered an emergency excavation. Please sample using the area 2 sampling parameters. Take ~~one~~ ^{two} samples for PCB and one field composite sample for each of the Area 2 parameters.

Samples may be sent to O B & G in Syracuse.

PID readings should be taken at the time of the excavation so Bill Carter or I will notify you when the digging begins.

*Scheduled for
4/12/93
AC*

(3) PCB'S =

FIELD COMPOSITE
(1) SAMPLE
VOC (8240)
SEMI-VOLATILES (8170)
PHENOL
CYANIDE (6010)
TCLP (METALS ONLY) (1311)

→ (1) 1.5L JAR + (1) 40 Z

DELIVERED TO
GRANT BOUMANN (C)
5-7-93

SLAFLAND AND STUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Bldg 64X Electrical Line Repair
Sampling Program

Date: 4-14-93
File No: 001.08.02
cc: Grant Bouman (GE)
Robert Rhodes (RBE)

The following is a summary of the sampling program conducted on 4-14-93 on the soil that was excavated during the Bldg 64X Electrical Line Repair located outside Bldg 64X.

At the request of Aimee Cole (GE), the following sampling program was implemented:

Three (3) discrete-grab samples were collected and analyzed for PCB's using Method 8130

One (1) field composite sample was collected and analyzed for VOC's using Method 8141, Semi-Volatiles using Method 8170, Cyanides using Method 8110, and TLR (Asbestos only) using Method 8111

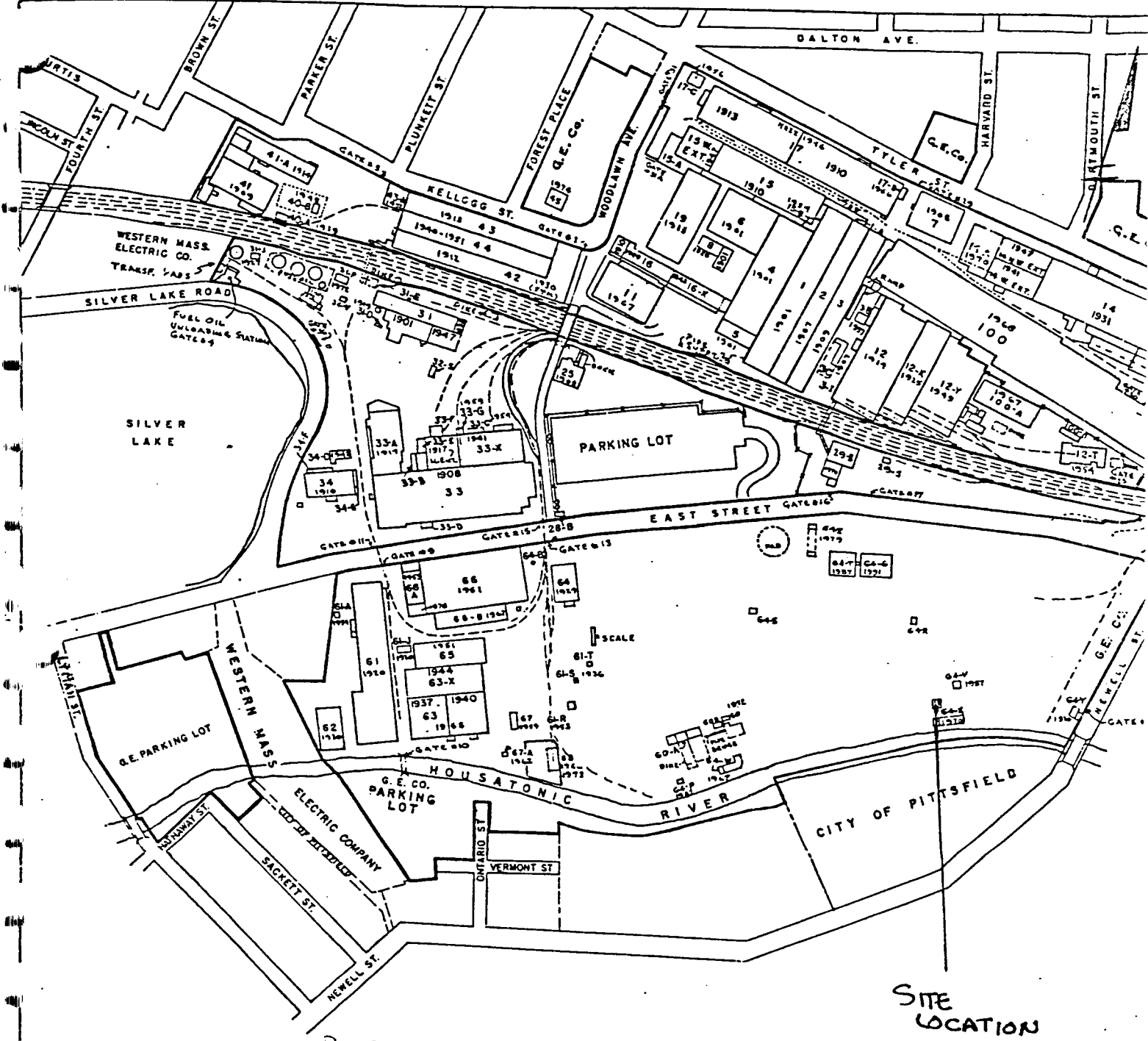
A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). Preliminary analytical reports provided by USE Laboratories (Attachment 1) have also been included. In addition, PID calibration forms (Attachment 2) and the soil screening results (Attachment 3) have also been provided.

FIELD DATA SHEET FOR
SAMPLING LOCATION

DATE: 10/10/93

SITE ID	SAMPLE DATE	TOUR FOR PPM	OIL				SAMPLE LOCATION	SAMPLE NUMBER	SAMPLE DATE	SAMPLE DEPTH	OIL INDEX
			WATER PHASE	SOLUBLE PHASES	EMULSION	OTHER OILS					
03-112-01	01-11-93	2.6	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	1	500	00543105-0300	0-1 FEET	2
03-112-01	01-14-93	4.1	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	2	500	00543105-0300	1-2 FEET	2
03-112-01	01-14-93	3.7	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	3	500	00543105-0300	2-3 FEET	2
03-112-01	01-14-93	NA	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	NOT REQUESTED	4-3	500	00543105-0300	0-5 FEET	2

FIGURE # 1

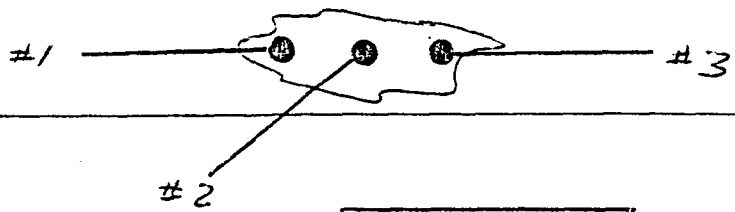
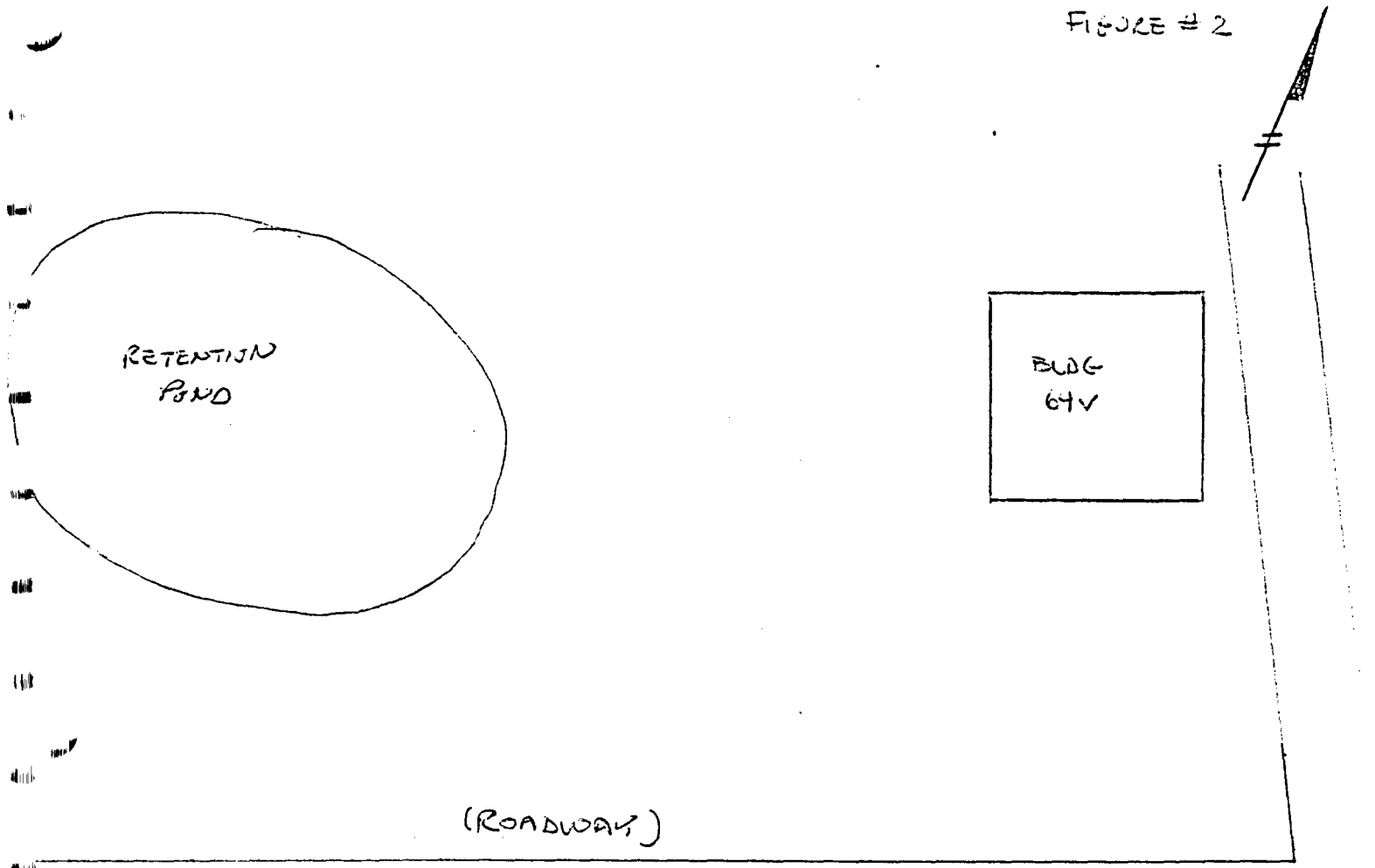


BUDG 64X ELECTRICAL LINE REPAIR
 SAMPLING
 (201.16, 12)

SITE
 LOCATION

SUBJECT BLDG 64X ELECTRICAL LINE REPAIR SAMPLING	PROJ. NO. 251.16.12	BY JJH	DATE 4-16-93	SHEET 1 of 1
---	------------------------	-----------	-----------------	-----------------



FIGURE # 2

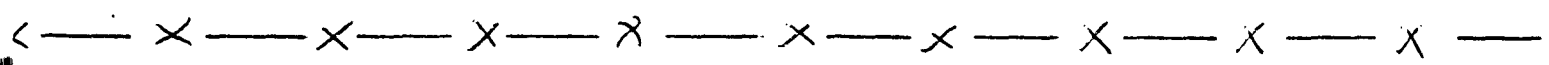


- APPROX DIMENSIONS
- 9' LENGTH
 - 5' WIDTH
 - 3' HEIGHT
 - 5 W YDS (APPROX)



LEGEND
(NOT TO SCALE)

-  - SOIL PILE
-  - SAMPLE LOCATION



ATTACHMENT 1

PRELIMINARY
MAY 5 1993

PACKAGE / SAMPLE SCHEDULE

Thu, Apr 15, 1993
 Project Manager: A C
 Page 1 of 2

PACKAGE

Job No.: 2887.26.517 Client: BLASLAND & BOUCK ENGINEERS, P.C.
 Project: Bldg. 64x Electric Line Repair Sampling Description: Pittsfield, MA (QAB#: 201.16.12)
 Scheduled: 15-APR-93 Due: 29-APR-93
 Package number: 5633 QC Level: 1
 Samples: R009830 - 009834 Number of samples: 5
 Certification: NY034
 Comments: _____

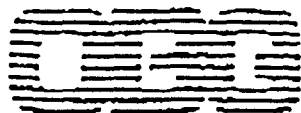
SCHEDULED SAMPLES

Samples	Number	Group	Parameter	ID	Method	Matrix	Comments
R009830 - 009833	4	(WC)	<i>DK</i> % Total Solids	828	S.W. 16 209F	Solid	
R009830 - 009832	3	(WC)	8080:PCB-S(SV) <i>OK</i>				
R009833 - 009833	1	(WC)	<i>all</i> Total cyanide	1281	EPA 9010	Solid	
R009833 - 009833	1		8240-S(GC/MS)				
R009833 - 009833	1		8270-S(GC/MS)				
R009833 - 009833	1		ICLP-MET-MS(MET) <i>OK</i>				
R009834 - 009834	1		8240-U(GC/MS)				

LIST OF ALL SAMPLES IN PACKAGE:

Sample	Description	Bin	Type	Collected	Received	Due	PCB	Aroclor	Comments	Pcts% Analyzed
R009830	64x-ELR-C1	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93	2.6	1260		89. 4/23/93
R009831	64x-ELR-C2	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93	1.1	1260		90. 5
R009832	64x-ELR-C3	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93	1.7	1260		90. ✓
R009833	64x-ELR-C4	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93				

Units: mg/kg (dry weight)
(ppm)



LABORATORIES, INC.

PRELIMINARY

MAY 5 1993

Laboratory Report

CLIENT Blackland & Bouck Engineers, P.E. JOB NO. 2887-026-517

DESCRIPTION Bldg. 64X Electric Line Repair Sampling, Pittsfield, MA

Toxicity Characteristic Leaching Procedure MATRIX: Solid

DATE COLLECTED 4-14-93 DATE RECEIVED 4-15-93

Description

64X-ELR-04

Sample #

R9833

TCLP Metals:

ARSENIC

<0.5

BARIUM

<10.

CADMIUM

<0.1

CHROMIUM

<0.5

LEAD

<0.5

MERCURY

<0.0005

SELENIUM

<0.1

SILVER

<0.5

Analytical Record:

Date Leachate Created 4-20-93

Date Mercury Analyzed 4-22-93

Comments:

Certification No.: NY 034

Units: mg/L (ppm)

Authorized: _____

Date: _____



PREPARED
MAY 5 1993

LABORATORIES, INC.

CLIENT Blastland & Bouch Engineers, P.C.

JOB NO. 2887.026.517

DESCRIPTION P. Hs field, M17 (BB#: 20116.12)

DATE COLLECTED 2/14/93 DATE RECEIVED 4/15/93 DATE ANALYZED see page 2

DESCRIPTION:

SAMPLE NO.:

	64x-ELR-4	QC Trip Blank
	R9833	R9834*
Chloromethane	<10	<10
Bromomethane		
Vinyl chloride		
Chloroethane		
Methylene chloride	<5	<5
Acetone	<10	<10
Carbon disulfide	<5	<5
1,1-Dichloroethane		
1,1-Dichloroethane		
1,2-Dichloroethane (total)		
Chloroform		
1,2-Dichloroethane		
2-Butanone	<10	<10
1,1,1-Trichloroethane	<5	<5
Carbon tetrachloride	<5	<5
Vinyl acetate	<10	<10
Bromodichloromethane	<5	<5
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
Trichloroethene		
Dibromochloromethane		
1,1,2-Trichloroethane		
Benzene		

Authorized: _____

Date: _____

MAY 5 1993

JOB NO. 2887.026517

CLIENT Blaugland & Bouck Engineers P.C.
 DESCRIPTION Pillsbury, MA (B&B#: 20116.12)

MATRIX: SOIL / WATER

DATE COLLECTED 4/14/93 DATE RECEIVED 4/15/93 DATE ANALYZED see below

DESCRIPTION:	64X-ELR-4	QC Trip Blank
SAMPLE NO.:	R9833	R9834*
trans-1,3-Dichloropropene	<5	<5
Bromoform	<5	<5
4-Methyl-2-pentanone	<10	<10
2-Hexanone	<10	<10
Tetrachloroethane	<5	<5
1,1,2,2-Tetrachloroethane		
Toluene		
Chlorobenzene		
Ethylbenzene		
Styrene		
Xylene (total)		
Date Analyzed	4/28/93	4/21/93

Elevated quantitation limits due to matrix complexity or interferences.

Values flagged with a "B" indicate the analyte was detected in the laboratory blank. The blank exhibited _____ µg/_____ (units) of methylene chloride and _____ µg/_____ (units) of acetone.

Values in parentheses are estimated values, detected, but below the quantitation limit.

Values Flagged with an "E" are estimated values.

OEG Laboratories, Inc., an O'Brien & Gere Limited Company
 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Methodology: EPA Target Compound List By 8240, SW-048
 November 1988, 3rd Edition

Certification No.: 10155

Units: µg/kg dry wt
 A µg/l

Authorized: _____

Date: _____

PACKAGE / SAMPLE SCHEDULE

Thu, Apr 15, 1993

Project Manager: A C

Page 1 of 2

DRB

PRELIMINARY

MAY 5 1993

PACKAGE

Job No.: 2887.26.517 Client: BLASLAND & BOUCK ENGINEERS, P.C.

Project: Bldg. 64x Electric Line Repair Sampling Description: Pittsfield, MA (B&B#: 201.16.12)

Scheduled: 15-APR-93 Due: 29-APR-93

Package number: 5633 GC Level: 1

Samples: R009830 - 009834 Number of samples: 5

Certification: NY034

Comments: _____

SCHEDULED SAMPLES

Samples	Number	Group	Parameter	ID	Method	Matrix	Comments
R009830 - 009833	4	[WC]	% Total Solids ✓	828	S.M. 16 209F	Solid	
R009830 - 009832	3	B080-PCB-S(SV)					
R009833 - 009833	1	[WC]	Total cyanide ✓	1281	EPA 9010	Solid	
R009833 - 009833	1	B240-S(GC/MS)					
R009833 - 009833	1	B270-S(GC/MS)					
R009833 - 009833	1	TCPL-MET-MS(MET)					
R009834 - 009834	1	B240-W(GC/MS)					

LIST OF ALL SAMPLES IN PACKAGE:

Sample	Description	Bin	Type	Collected	Received	Due	PCTS	CN	Comments
R009830	64x-ELR-C1	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93	89.	-	
R009831	64x-ELR-C2	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93	90.	-	
R009832	64x-ELR-C3	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93	90.	-	
R009833	64x-ELR-C4	28	Grab	14-APR-93	15-APR-93 09:15	29-APR-93	89.	<0.6	

mg./Kg. Dry wt.
(ppm)



PRELIMINARY

MAY 5 1993

Semivolatile Organics Method 8270

CLIENT BLASLAND BOSK ENGINEERS, PC JOB NO. 2887-026-5D

DESCRIPTION BLDG. 64X ELECTRIC LINE REPAIR SAMPLING

64X - ELR - C4

MATRIX: SOIL

SAMPLE NO. R9833 DATE COLLECTED 04/14/93 DATE RECEIVED 04/15/93

DATE EXTRACTED 04/16/93 DATE ANALYZED 04/30/93

Phenol

Bis (2-chloroethyl) ether

2-Chlorophenol

1,3-Dichlorobenzene

1,4-Dichlorobenzene

Benzyl alcohol

1,2-Dichlorobenzene

2-Methylphenol

Bis (2-chloroisopropyl) ether

4-Methylphenol

N-Nitroso-di-n-propylamine

Hexachloroethane

Nitrobenzene

Isophorone

2-Nitrophenol

2,4-Dimethylphenol

Benzoic acid

Bis (2-chloroethoxy) methane

2,4-Dichlorophenol

1,2,4-Trichlorobenzene

Naphthalene

4-Chloroaniline

Hexachlorobutadiene

4-Chloro-3-methylphenol

2-Methylnaphthalene

Hexachlorocyclopentadiene

2,4,6-Trichlorophenol

2,4,5-Trichlorophenol

2-Chloronaphthalene

2-Nitroaniline

Dimethylphthalate

Acenaphthylene

2,6-Dinitrotoluene

3-Nitroaniline

Acenaphthene

2,4-Dinitrophenol

4-Nitrophenol

Dibenzofuran

2,4-Dinitrotoluene

Diethylphthalate

4-Chlorophenyl-phenylether

Fluorene

4-Nitroaniline

4,6-Dinitro-2-methylphenol

N-Nitrosodiphenylamine

4-Bromophenyl-phenylether

<370

<1800

<370

<370

<1800

<370

<1800

<370

<1800

<370

<1800

<1800

<370

<1800

<1800

<370

<370

Authorized: _____

Date: _____



PRELIMINARY
MAY 5 1993

Semivolatile Organics Method 8270

CLIENT BLASLAND; BOUCIK ENGINEERS, PC JOB NO. 2887.026.517

DESCRIPTION BLDG. 64X ELECTRIC LINE REPAIR SAMPLING
64X-ELR-C4 MATRIX: SOIL

SAMPLE NO. R9833 DATE COLLECTED 04/14/93 DATE RECEIVED 04/15/93
DATE EXTRACTED 04/16/93 DATE ANALYZED 04/30/93

Hexachlorobenzene	<370	Benzo (a) anthracene	<370
Pentachlorophenol	<1800	Chrysene	
Phenanthrene	<370	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<740	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Elevated quantitation limits due to matrix complexity or interferences.

Values flagged with a "B" indicate the analyte was detected in the laboratory blank. The blank exhibited _____ µg/_____ (units) of bis(2-ethylhexyl)phthalate.

Values in parentheses are estimated values, detected, but below the quantitation limit.

Values flagged with an "E" are estimated values.

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg DRY WEIGHT
(ppb)

ATTACHMENT 2

HNU CALIBRATION

BUDG BYX ELECTRICAL LINE REPAIR SAMPLING
(201.16.12)

DATE: 4-14-93
OPERATOR: Jim HASSETT

HNU SERIAL NO: A70129
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 57 ppm

INITIAL READING: 9.8 span setting @ 48 ppm

ADJUSTED SETTING: 8.1 span setting @ 57 ppm

NOTES:

ATTACHMENT 3



BLASLAND & BOUCK ENGINEERS, P.C.
 6723 Tow Path Road, Box 66, Syracuse, New York 13214
 (315) 446-9120

PLEASE SEND LAB REPORT TO:
 BRUCE EULIAN
 BLASLAND & BOUCK ENGINEERS
 C/O GE POWER TRANSFORMER DEPT.
 MAILCODE D-32
 100 WOODLAWN AVE.
 PITTSFIELD, MA 01201
 CC: ROBERT RHOADES
 BLASLAND & BOUCK ENGINEERS
 6723 TOWPATH RD.
 SYRACUSE, NY 13214

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	TOB'S METHOD 8080	VOC'S METHOD 8240	SEMI-VOLATILES METHOD 8270	CYANIDES METHOD 9010	TCUP (METALS ONLY) METHOD 1311	REMARKS
251,16,12		BLDG 64X ELECTRICAL LINE REPAIR SAMPLING													
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE									
						SOLID S-1L	WIPE	WATER							
64X-ELR-C1		4-14-93	1615		X	X			1	X					
64X-ELR-C2		4-14-93	1630		X	X			1	X					
64X-ELR-C3		4-14-93	1645		X	X			1	X					
64X-ELR-C4		4-14-93	1700		X	X			2		X	X	X	X	
TRIP BLANK		4-14-93	—		X			X	1		X				
SAMPLED BY: (SIGNATURE) <i>James J. Assett</i>		DATE/TIME 4-14-93 1615 +hrv 1700	RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE) <i>James J. Assett</i>			DATE/TIME 4-14-93 1745	RECEIVED BY: (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME	RECEIVED BY: (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME	REMARKS SENT TO SYRACUSE ORG LAB FED EX# 604592 9013								

APPENDIX J, SECTION B-24

BLASLAND & BOUCK ENGINEERS P.C.

SUBJECT: Misc Drum Sampling (Bldg 12-1)

PROJECT NO: 101-75-23

BY: S E Melbourne

DATE: 10-17-91

REQUEST FOR SAMPLING

DATE: 10-14-91

INITIATOR: Aimee Cole (GS)

BLDG. LOCATION: Bldg 12-1

CONTACT PERSON: Aimee Cole (GS)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

NOTES:

The following sampling criteria was implemented at the request of Aimee Cole (GS):

1.) Each drum to be sampled individually for TCLP's (no pesticides or herbicides). Samples to be sent to Alpha Analytical via (Jeff Nicholson) GE Lab Pittsfield, MA for courier pick up.

The sampling program was conducted on a discrete-grab sample basis.

GRANT BOWMAN
10-6-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Misc Drum Sampling (Bldg 12-1)

Date: 10-17-91
File No: 101-75-23
cc: Grant Bowman (GE)

The following is a summary of the sample results for the TCLP sampling program conducted in Bldg 12-1 on 10-14-91. A drawing showing the sample location is attached (see figure 1). A analytical report provided by Alpha Analytical Laboratories has also been included.

TCLP SAMPLING RESULTS

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
12-1-05555-C1	(SEE ALPHA LAB REPORT)	1	SOIL	DISCRETE-GRAB	0" - 18"
12-1-05576-C1	(SEE ALPHA LAB REPORT)	2	SOIL	DISCRETE-GRAB	0" - 12"
12-1-05549-C1	(SEE ALPHA LAB REPORT)	3	SOIL	DISCRETE-GRAB	0" - 8"
12-1-05599-C1	(SEE ALPHA LAB REPORT)	4	SOIL	DISCRETE-GRAB	0" - 22"

SEN

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analyses of Building 12 drum samples

Number: EL-91-051

Date: November 4, 1991

Test by: Alpha Analytical

Requested by: A. Cole

Report by: WA Fessler

Approved: *WA Fessler*
11/14/91

Four samples from drums in Building 12 were sent to Alpha Analytical Laboratories for determination of toxicity characteristics listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

The samples do not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
 A Cole 11-250

SUBJECT SOIL LOCATIONS FOR DRUM SAMP. (EAST ST. AREA 2)	PROJ. NO. 10193-11	BY BEG	DATE 6-9-92	SHEET 1001
--	-----------------------	-----------	----------------	---------------

DRUM # LOCATION (SEE ATTACHED B+B MAP)

05555 B4
 05596 B5
 05549 B1
 05599 B5

05997 Y11 TO Y20
 09008 X14
 09009 XB
 05976 Y1, Y2, Y3, Y5, Y7
 09019 X19
 09016 X19, X20

APPENDIX J, SECTION B-25

BLASLAND & BOUCK ENGINEERS P.C.
(REQUEST FOR SAMPLING)

ELIMINAR

APR 3 1992

To: Files

Date: 3-27-92

From: Bruce Eulian

File No: 101-75-23

Re: Misc. Drum Sampling (Bldg.12-1)

INITIATOR: Aimee Cole (GE)

DATE: 3-4-92.

BLDG. LOCATION: Bldg.12Y-1

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil (discrete-grab)

PURPOSE:

To determine proper disposal method for soil generated from various drilling locations around the plant.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE).

1.) Soil generated from various drilling locations around the plant is to be sampled for;
drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 5976: TCLP-Metals (no herbicides or pesticides)
drum # 5997: TCLP-Metals (no herbicides or pesticides)
drum # 9008: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010
drum # 9009: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010.

PRELIMINARY

APR 3 1992

GLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Misc. Drum Sampling (Bldg.12-1)

Date: 3-4-92
File No: 101-75-23
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on the soil generated from various drilling locations around the plant. The soil was put into 55 gal. drums and transported to bldg.12-1 for sampling and storage.

At the request of Alana Cole (GE) the following sampling was performed:

drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)

drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)

drum # 5976: TCLP-Metals (no herbicides or pesticides)

drum # 5997: TCLP-Metals (no herbicides or pesticides)

drum # 9006: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010

drum # 9009: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010

A summary table of the sampling program has been provided (TABLE 1), including drawings showing the site location (FIGURE 1) and sample locations (FIGURE 2). Preliminary analytical reports provided by JGG Laboratories and analytical reports provided by Alpha Analytical have also been included.

egp

Misc. Drum Sampling
CBI dg. 12-15
101-75-23

PRELIMINARY

APR 3 1992

TABLE 1

SAMPLE LOCATION	LAB-ID	SAMPLE DATE	TOTAL PCB's METHOD 8080 PPH	TCLP METALS	REACTIVE CYANIDE METHOD 9010 PPH	REACTIVE SULFIDE METHOD 9030 PPH	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
1	12-1-5997- C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 22"	2
2	12-1-9008- C1	3-4-92	-----	-----	<1.0	<10.0	SOIL	DISCRETE- GRAB	0 - 30"	2
3	12-1-9009- C1	3-4-92	-----	-----	<1.0	76.0	SOIL	DISCRETE- GRAB	0 - 23"	2
4	12-1-5976- C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 26"	2
5	12-1-9019- C1	3-4-92	9.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 32"	2
6	12-1-9016- C1	3-4-92	1.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 24"	2

3794



PRELIMINARY

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520
 DESCRIPTION G.E., Pittsfield Job No. 101-75-23
Misc. Drum Sampling (Bldg. 12-1)
 Date Analyzed 3/23/92 DATE COLLECTED See Below DATE RECEIVED 3/5/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
12-1-9019-C1	3/9/92	3/4/92	7.8	94	9.3	soil	A
12-1-9016-C1	↓	↓	1.3	98	1.3	↓	↓
A) Reagent Blank 1:					< 1		
Reference Sample 1:					3.0/3.3 =	91%	
Matrix Spike CP1-LD-C1:					3.0/3.3 =	91%	
Matrix Spike Duplicate:					3.0/3.3 =	91%	
Precision:					3.0 vs 3.0 =	0% RPD	

Comments:

Certification No.:

Units: mg/kg = ppm

Authorized: _____

Date: _____

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analysis of Drum Samples

Number: EL-92-030

Test by: Alpha Analytical

Date: March 23, 1992

Report by: WA Fessler

Requested by: A Cole

Approved: *WA Fessler*

3-23-92

Four samples from waste drums in Building 12 were sent to Alpha Analytical Laboratories for determination of toxicity characteristics due to metals listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

None of the samples showed the characteristic of toxicity. Note, however, that the value reported for lead (5.0 mg/L) in sample 12-2-5976-C1 corresponds to the limit for lead.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
 A Cole 11-205

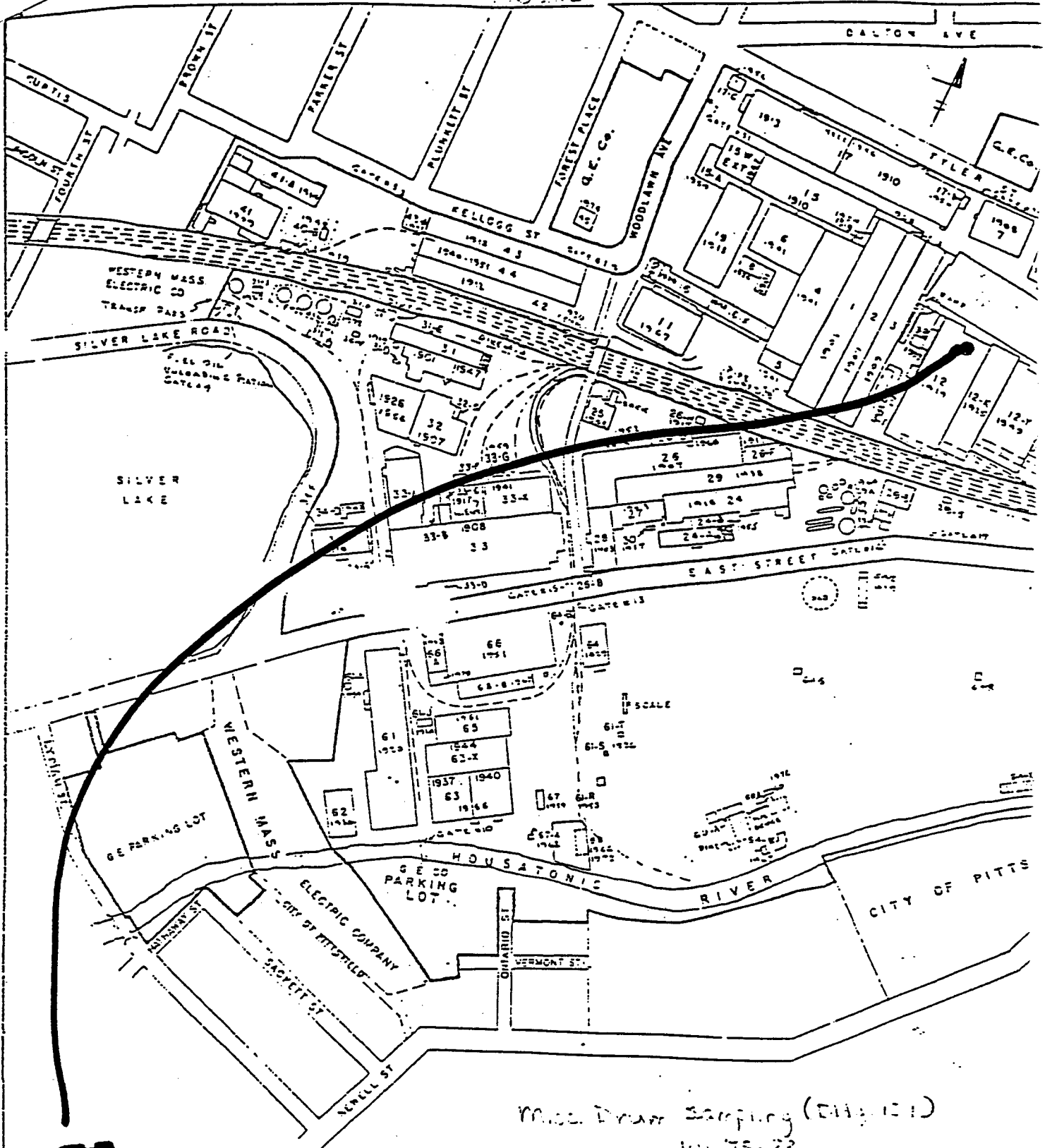
SUBJECT SOIL LOCATIONS FOR DRUM SAMP. (EAST ST. AREA 2)	PROJ. NO. 10193-11	BY BEG	DATE 6-9-92	SHEET 1 OF 1
--	-----------------------	-----------	----------------	-----------------

DRUM # LOCATION (SEE ATTACHED B+B MAP)

05555 B4
 05596 B5
 05549 B1
 05599 B5

05997 Y11 TO Y20
 09008 X14
 09009 X8
 05976 Y1, Y2, Y3, Y5, Y7
 09019 X19
 09016 X19, X20

FIGURE 1



**SITE
LOCATION**

Mass. Drain Sampling (DHS 101)
10-75-23

APPENDIX J, SECTION B-26

BLASLAND & BOUCK ENGINEERS P.C.
(REQUEST FOR SAMPLING)

ELIMINAR

APR 3 1992

To: Files

Date: 3-27-92

From: Bruce Eulian

File No: 101-75-23

Re: Misc. Drum Sampling (Bldg.12-1)

INITIATOR: Aimee Cole (GE)

DATE: 3-4-92.

BLDG. LOCATION: Bldg.12Y-1

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil (discrete-grab)

PURPOSE:

To determine proper disposal method for soil generated from various drilling locations around the plant.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE).

1.) Soil generated from various drilling locations around the plant is to be sampled for;
drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 5976: TCLP-Metals (no herbicides or pesticides)
drum # 5997: TCLP-Metals (no herbicides or pesticides)
drum # 9008: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010
drum # 9009: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010.

PRELIMINARY
APR 3 1992

4-8-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Misc. Drum Sampling (Bldg.12-1)

Date: 3-4-92
File No: 101-75-23
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on the soil generated from various drilling locations around the plant. The soil was put into 55 gal. drums and transported to bldg.12-1 for sampling and storage.

At the request of Aimee Dole (GE) the following sampling was performed:

- drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
- drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
- drum # 5976: TCLP-Metals (no herbicides or pesticides)
- drum # 5997: TCLP-Metals (no herbicides or pesticides)
- drum # 9008: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010
- drum # 9009: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010

A summary table of the sampling program has been provided (TABLE 1), including drawings showing the site location (FIGURE 1) and sample locations (FIGURE 2). Preliminary analytical reports provided by DBB Laboratories and analytical reports provided by Alpha Analytical have also been included.

Misc. Drum Sampling
CBldg. 12410
101-75-23

PRELIMINARY

APR 3 1992

TABLE 1

SAMPLE LOCATION	LAB-ID	SAMPLE DATE	TOTAL PCB's METHOD 8080 PPH	TCLP METALS	REACTIVE CYANIDE METHOD 9010 PPH	REACTIVE SULFIDE METHOD 9030 PPH	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
1	12-1-5997- C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 22"	2
2	12-1-9009- C1	3-4-92	-----	-----	<1.0	<10.0	SOIL	DISCRETE- GRAB	0 - 30"	2
3	12-1-9009- C1	3-4-92	-----	-----	<1.0	76.0	SOIL	DISCRETE- GRAB	0 - 23"	2
4	12-1-5976- C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 26"	2
5	12-1-9019- C1	3-4-92	9.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 32"	2
6	12-1-9016- C1	3-4-92	1.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 24"	2

3794



PRELIMINARY

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520
 DESCRIPTION G.E., Pittsfield Job No. 101-75-23
Misc. Drum Sampling (Bldg. 12-1)
 Date Analyzed 3/23/92 DATE COLLECTED See Below DATE RECEIVED 3/5/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
12-1-9019-C1	3/9/92	3/4/92	7.8	94	9.3	soil	A
12-1-9016-CF	↓	↓	1.3	98	1.3	↓	↓
A) Reagent Blank 1:					< 1		
Reference Sample 1:					3.0/3.3 =	91%	
Matrix Spike CP1-LD-C1:					3.0/3.3 =	91%	
Matrix Spike Duplicate:					3.0/3.3 =	91%	
Precision:					3.0 vs 3.0 =	0% RPD	

Comments:

Certification No.:

Units: mg/Kg = PPM

Authorized: _____

Date: _____

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analysis of Drum Samples

Number: EL-92-030

Date: March 23, 1992

Test by: Alpha Analytical

Requested by: A Cole

Report by: WA Fessler

Approved: *WA Fessler*

3-23-92

Four samples from waste drums in Building 12 were sent to Alpha Analytical Laboratories for determination of toxicity characteristics due to metals listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

None of the samples showed the characteristic of toxicity. Note, however, that the value reported for lead (5.0 mg/L) in sample 12-2-5976-C1 corresponds to the limit for lead.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
A Cole 11-205

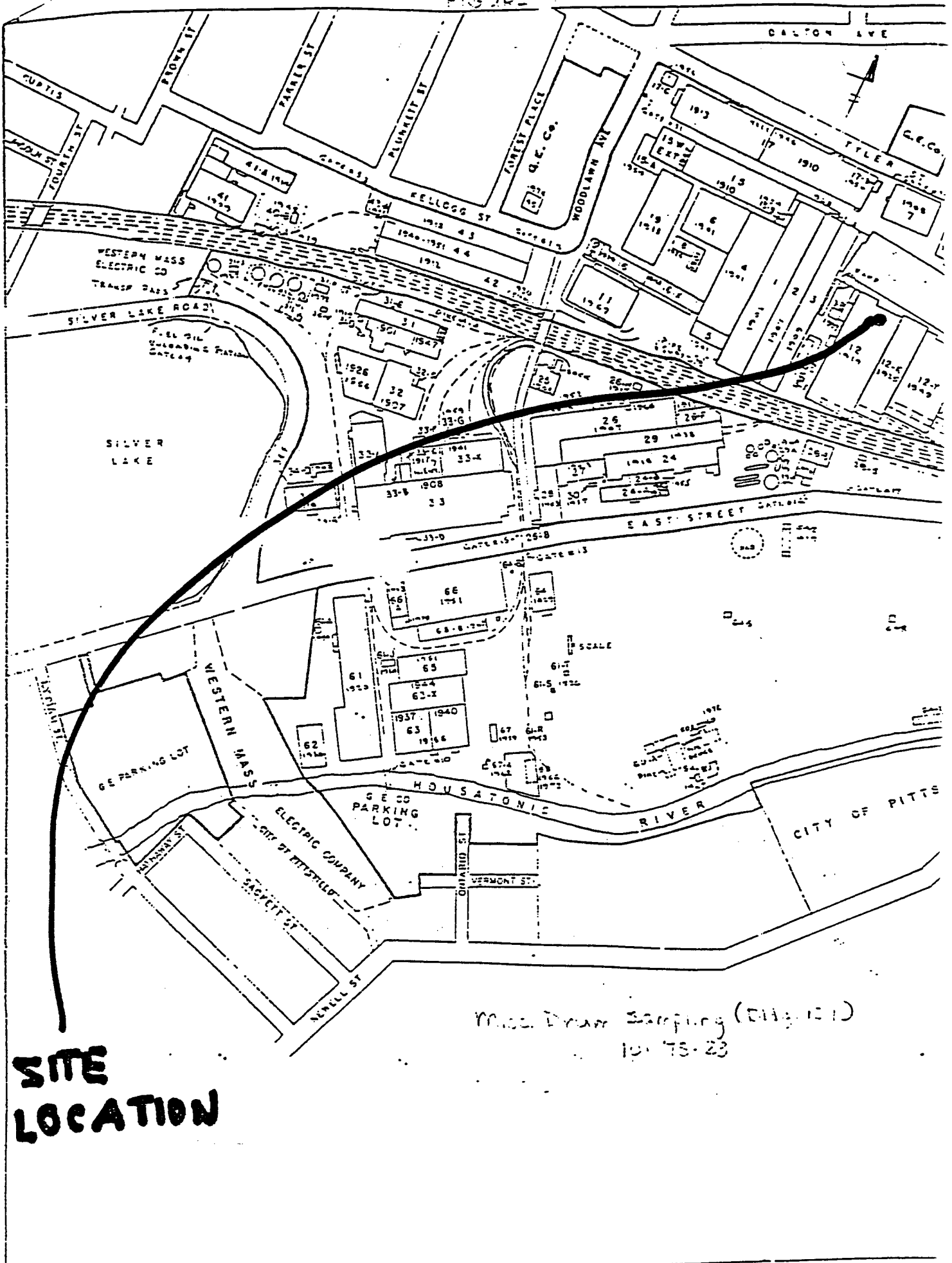


SUBJECT SOIL LOCATIONS FOR DRUM SAMP. (EAST ST. AREA 2)	PROJ. NO. 10193-11	BY BEE	DATE 6-9-92	SHEET 1061
--	-----------------------	-----------	----------------	---------------

DRUM # LOCATION (SEE ATTACHED B&B MAP)

05555 B4
 05596 B5
 05549 B1
 05599 B5

05997 Y11 TO Y20
 09008 X14
 09009 XB
 05976 Y1, Y2, Y3, Y5, Y7
 09019 X19
 09016 X19, X20



**SITE
LOCATION**

Mass. Drain Sampling (Site 101)
10-75-23

APPENDIX J, SECTION B-27

BLASLAND & BOUCK ENGINEERS P.C.
(REQUEST FOR SAMPLING)

ELIMINAR

APR 3 1992

To: Files

Date: 3-27-92

From: Bruce Eulian

File No: 101-75-23

Re: Misc. Drum Sampling (Bldg.12-1)

INITIATOR: Aimee Cole (GE)

DATE: 3-4-92.

BLDG. LOCATION: Bldg.12Y-1

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil (discrete-grab)

PURPOSE:

To determine proper disposal method for soil generated from various drilling locations around the plant.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE).

1.) Soil generated from various drilling locations around the plant is to be sampled for;
drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)
drum # 5976: TCLP-Metals (no herbicides or pesticides)
drum # 5997: TCLP-Metals (no herbicides or pesticides)
drum # 9008: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010
drum # 9009: Reactive Sulfide Method 9030 & Reactive Cyanide Method 9010.

PRELIMINARY

APR 3 1992

4-8-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Misc. Drum Sampling (Bldg.12-1)

Date: 3-4-92
File No: 101-75-23
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on the soil generated from various drilling locations around the plant. The soil was put into 55 gal. drums and transported to bldg.12-1 for sampling and storage.

At the request of Alice Cole (GE) the following sampling was performed:

drum # 9016: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)

drum # 9019: PCB's Method 8080 & TCLP-Metals (no herbicides or pesticides)

drum # 5976: TCLP-Metals (no herbicides or pesticides)

drum # 5997: TCLP-Metals (no herbicides or pesticides)

drum # 9006: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010

drum # 9009: Reactive Sulfides Method 9030 & Reactive Cyanide Method 9010

A summary table of the sampling program has been provided (TABLE 1), including drawings showing the site location (FIGURE 1) and sample locations (FIGURE 2). Preliminary analytical reports provided by DBS Laboratories and analytical reports provided by Alpha Analytical have also been included.

egp

Misc. Drum Sampling
CBldg. 12#11
101-75-23

PRELIMINARY

APR 3 1992

TABLE 1

SAMPLE LOCATION	LAB-ID	SAMPLE DATE	TOTAL PCB's METHOD 8080 PPH	TCLP METALS	REACTIVE CYANIDE METHOD 9010 PPH	REACTIVE SULFIDE METHOD 9030 PPH	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
1	12-1-5997-C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 22"	2
2	12-1-9009-C1	3-4-92	-----	-----	<1.0	<10.0	SOIL	DISCRETE- GRAB	0 - 30"	2
3	12-1-9009-C1	3-4-92	-----	-----	<1.0	76.0	SOIL	DISCRETE- GRAB	0 - 23"	2
4	12-1-5976-C1	3-4-92	-----	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 26"	2
5	12-1-9019-C1	3-4-92	9.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 32"	2
6	12-1-9016-C1	3-4-92	1.3	SEE ALPHA LAB REPORT	-----	-----	SOIL	DISCRETE- GRAB	0 - 24"	2



LEVEL OF REPORT: I
 DATE SCHEDULED: PRELIMINARY **Laboratory Report**

BIN #: 53

CLIENT: Blasland + Bouck Engineers P.C. JOB NO. 2887-026-517
 DESCRIPTION: Misc. Dura Sampling (Bldg. 12-1) B+B: 101.75.23
 MATRIX: Solid
 DATE COLLECTED: 3-4-92 DATE RECEIVED: 3-5-92

Description:	12-1-9008-C	12-1-9009-C		
Sample No:	P3729	P3730		
Activity:				
Cu	< 1.	< 1.		
S	< 10.	76.		
PCTS	82.	79.		

COPY CHECK: TAA / ARM / AC / MNP / DRB
 Comments: _____ Certification No.: NY034
 Units: mg./KG DRY WT.

Authorized: _____
 OBG Laboratories, Inc., an O'Brien & Gere Limited Company

**GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report**

Title: TCLP Analysis of Drum Samples

Number: EL-92-030

Test by: Alpha Analytical

Date: March 23, 1992

Report by: WA Fessler

Requested by: A Cole

Approved: *WA Fessler*

3-23-92

Four samples from waste drums in Building 12 were sent to Alpha Analytical Laboratories for determination of toxicity characteristics due to metals listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table.

None of the samples showed the characteristic of toxicity. Note, however, that the value reported for lead (5.0 mg/L) in sample 12-2-5976-C1 corresponds to the limit for lead.

A copy of the report from Alpha is attached.

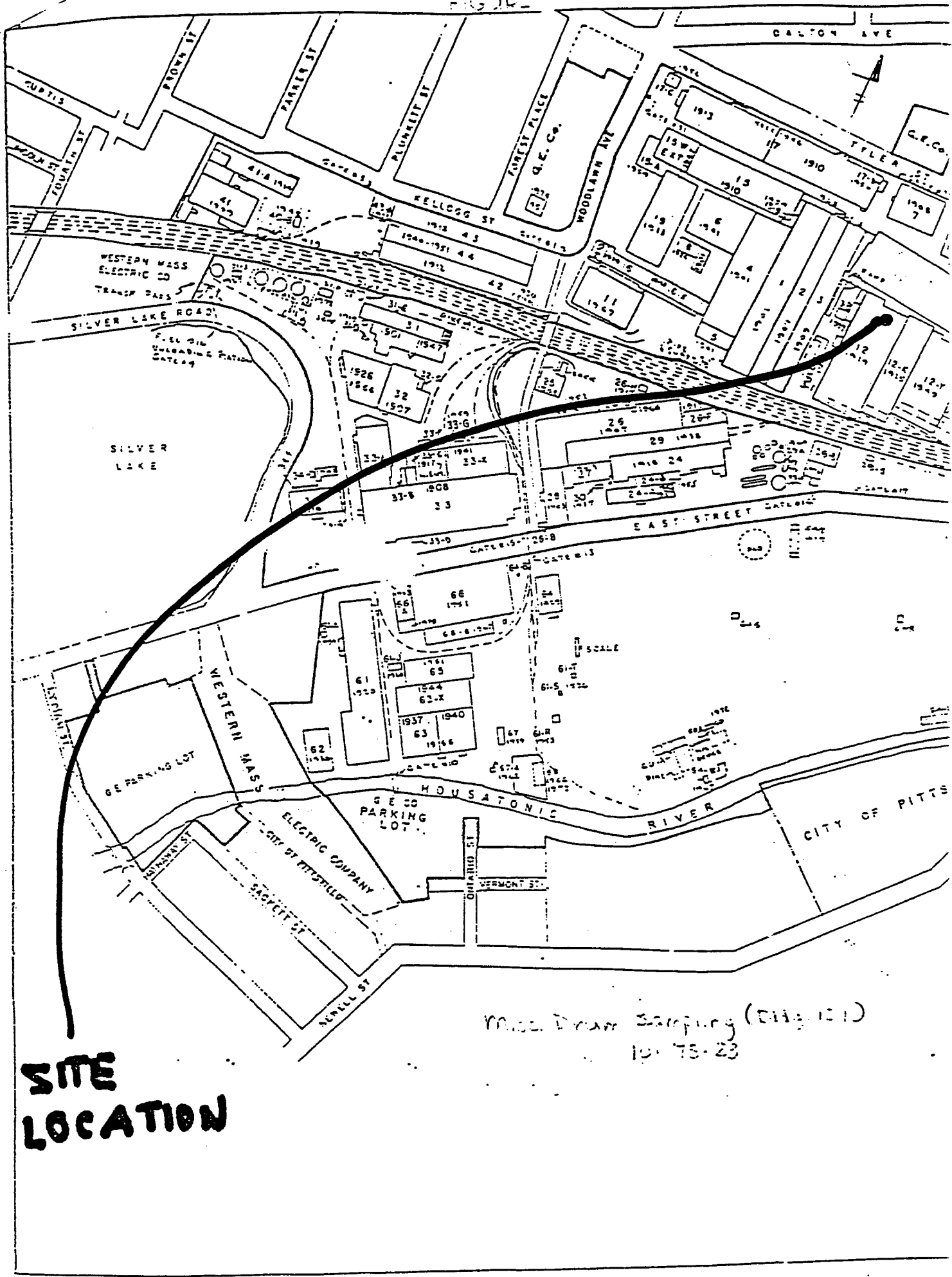
DISTRIBUTION: Manager, Environmental Laboratory C23
A Cole 11-205

PROJECT	(EAST ST. AREA 2)	PROJ. NO.	BY	DATE	SHEET
SOIL LOCATIONS FOR DRUM SAMP.		10193-11	BEE	6-9-92	10F1

DRUM # LOCATION (SEE ATTACHED B+B MAP)

05555 B4
05596 B5
05549 B1
05599 B5

05997 Y11 TO Y20
09008 X14
09009 X8
05976 Y1, Y2, Y3, Y5, Y7
09019 X19
09016 X19, X20



**SITE
LOCATION**

Mud Drain Sampling (Dig 101)
10/15/23