

23.38

RCRA RECORDS CENTER  
FACILITY GE. Pittsfield  
I.D. NO. MA0002084093  
FILE LOC. A-9  
OTHER 213379

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

**VOLUME X OF XII**

**GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS**

**AUGUST 1994**

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

SDMS DocID 000213379



015841



GE-P

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

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VOLUME X OF XII

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Appendix J            Analytical Data Sheets and Location Plans Associated With  
Miscellaneous Site Investigations (Sections C-1 through C-30)



# Appendices



# Appendix J



**APPENDIX J**

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

**(Sections C-1 through C-30)**

APPENDIX J, SECTION C-1

BLASLAND & BOUCK ENGINEERS, P.C.

(REQUEST FOR SAMPLING)

TO: Files

DATE: November 22, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 40A Drum Sampling (Sump Water)

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-8-93

LOCATION: Bldg 12-STS

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Sump Water

PURPOSE: To collect samples for GE to determine the proper disposal method of the sump water placed into GE Drum #'s (see attached letter from Aimee Cole to Bruce Eulian 11-8-93) that were generated during the pumping of the sump in Bldg 40A. These drums are located in Bldg 12-STS.

NOTES: The following sampling program was implementated at the request of Jeff Ruebesam (GE), (see attached sample request letter dated 11-8-93):

- 1.) Three (3) field-composite samples of the sump water located in the GE Drums from Bldg 40A are to be sampled and analyzed for PCB's (Method 8080).
- 2.) One (1) field-composite sample of the sump water located in the GE Drums from Bldg 40A is to be sampled and analyzed for TCLP (Metals Only - Method 1311).
- 3.) G.E. requests that the samples collected be analyzed at the Syracuse, NY OBG Laboratory.

jjh

November 8, 1993

To: B. Eulian - B&B

From: A. Cole - GEC

Re: 40's demolition sampling

Please take a field composite of drums selected from the list below for PCB analysis (method 8080) and TCLP metals only (method 1311). These drums contain water pumped off the top of the sludge in the bldg. bldg. 40 A trench. The drums are located in bldg. 12 STS.

32113	32114	32115	32116
32117	32118	32119	32120
32121	32122	32123	32124
32125	32126	32127	32128
32129	32130	32131	32132

The samples may be sent to O'Brien and Gere in Syracuse for the analyses.

BLASLAND AND BOUCK ENGINEERS P.C.

DELIVERED TO  
GRANT BRUMAN (EE)  
12-1-93

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 40A Drum Sampling (Sump Water)

Date: November 29, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-12-93 on the sump water placed into GE Drum #s (see below) that was generated during the pumping of the sump in Bldg 40A. The drums were located in Bldg 12-STs.

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

	<u>Field Composite</u>	<u>Field Composite</u>	<u>Field Composite</u>
<u>Bldg 40A</u>	32132	32126	32116
<u>GE Drum's:</u>	32131	32119	32118
	32127	32120	32117
	32113	32125	32122
	32114	32130	32123
	32115	32129	32121
	32124	32128	

- Three (3) field-composite samples of the sump water located in GE Drums from Bldg 40A were collected and analyzed for PCB's (Method 8080).

- One (1) field-composite sample of the sump water located in GE Drum #'s 32124, 32130 and 32118 from Bldg 40A was collected and analyzed for TCLP (Metals only - Method 1311).

Note: The samples were collected by 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). Preliminary analytical reports provided by OBG Laboratories (Attachment 1) have also been included.

Bldgs 41-1, 41-2, 41A and 40A  
 (Additional Sampling)  
 Bldg 40A Drum Sampling (Sump Water)

(201.17.06)

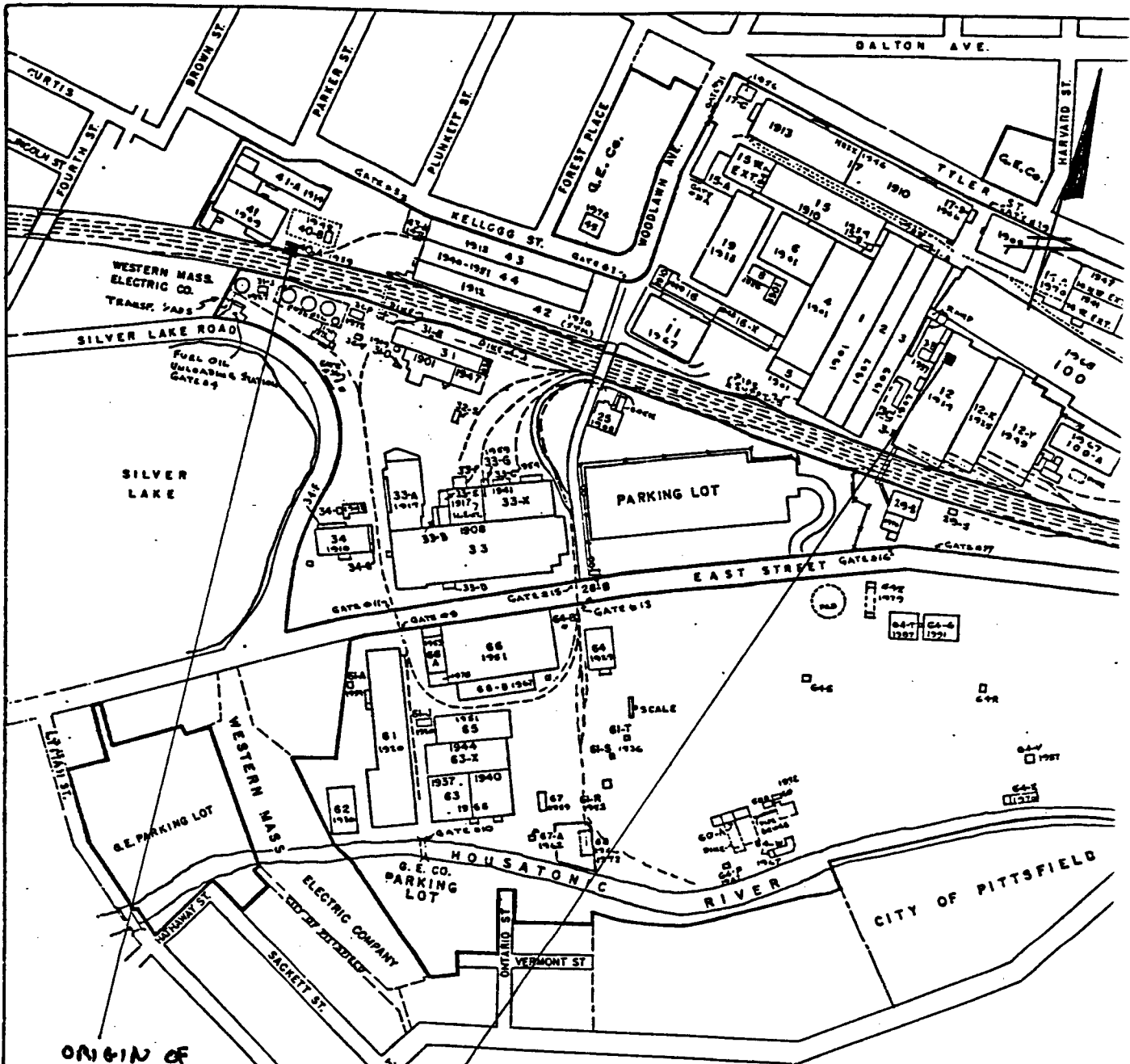
Table 1

LAB ID	DATE SAMPLED	PCBs METHOD 8080	TCLP METALS ONLY METHOD 1311	GE DRUM #/ SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
<u>BLDG 40A</u>								
40A-BGS-L1	11-12-93	SEE OBG LAB REPORT	NR	32132 32131 32127 32113 32114 32115 32124	SUMP WATER	FIELD-COMPOSITE	(0-30")	2
40A-BGS-L2	11-12-93	SEE OBG LAB REPORT	NR	32126 32119 32120 32125 32130 32129 32128	SUMP WATER	FIELD-COMPOSITE	(0-30")	2
40A-BGS-L3	11-12-93	SEE OBG LAB REPORT	NR	32116 32118 32117 32122 32123 32121	SUMP WATER	FIELD-COMPOSITE	(0-30")	2
40A-BGS-L4	11-12-93	NR	SEE OBG LAB REPORT	32124 32130 32118	SUMP WATER	FIELD-COMPOSITE	(0-30")	2

NOTES:

NR: NOT REQUIRED  
 THE SAMPLES WERE COLLECTED BY USING A GLASS THIEF.

FIGURE 1



ORIGIN OF GE DRUM #'S

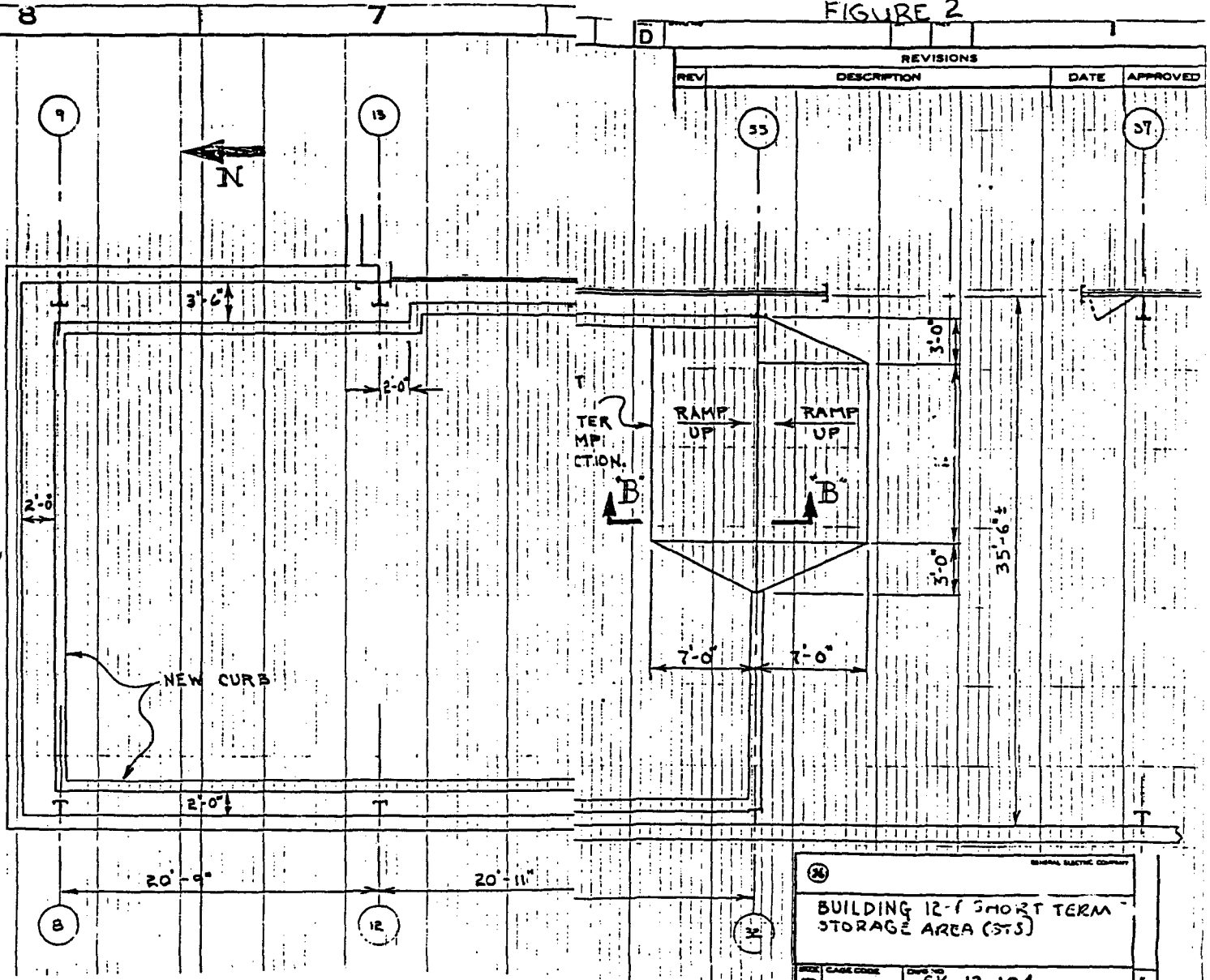
- |       |       |
|-------|-------|
| 32116 | 32114 |
| 32120 | 32118 |
| 32124 | 32122 |
| 32128 | 32126 |
| 32132 | 32130 |
| 32115 | 32115 |
| 32117 | 32119 |
| 32121 | 32123 |
| 32125 | 32127 |
| 32129 | 32131 |

SITE LOCATION OF GE DRUM #'S  
(SEE LIST TO LEFT)

BLOGS 41-1, 41-2, 41A AND 40A  
ADDITIONAL SAMPLING  
BLOG 40A DRUM SAMPLING (SEMP WATER)

(20.17.06)

FIGURE 2



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

35			37
----	--	--	----

36		GENERAL ELECTRIC COMPANY	
BUILDING 12-1 SHORT TERM STORAGE AREA (STS)			
PROJ. CAGE CODE	DWG. NO.		
D	SK-12-104		
SCALE	3/16" = 1'-0"	SHEET	1 OF 1
			DATE

LOCATION #1 IS A FIELD COM  
32132, 32131, 32127, 3  
LOCATION #2 IS A FIELD CUMI  
32126, 32119, 32120, 321  
LOCATION #3 IS A FIELD COM  
32116, 32118, 32117, 32  
THE ABOVE SAMPLES WERE CD  
8080.  
A FIELD-COMPOSITE (DISCRETE  
32124, 32130 & 32118 AND A

BLDGS. 41-1, 41-2, 41A-1 & 41A-1  
ADDITIONAL SAMPLING  
BLDG. 40A-1 BELOW GRADE SUMP  
WATER SAMPLING  
201.17.06



ATTACHMENT 1



PRELIMINARY

NOV 23 1993

# Laboratory Report

CLIENT: BLAISLAND & BOUCK ENGINEERS, PC JOB NO. 2887.026.57  
 DESCRIPTION: PITTSFIELD, MA. BLDG 4-1, 4-2, 4A & 40A ADDITIONAL SAMPLING (BLDG 40A BELOW - GRADE SUMP) MATRIX: WATER  
 DATE ANALYZED: 11/17/93 DATE COLLECTED: 11-12-93 DATE RECEIVED: 11-15-93

### Description

Sample # PCB Aroclor

40A-BGS-L1

T0038 0.068

40A-BGS-L2

T0039 0.080 1254/1260\*

40A-BGS-L3

T0040 0.074 1254/1260\*

Faxed  
OK  
11/18

### Comments:

\* altered aroclor ~~1254~~ 1260

Certification No.: NY 034

Units: µg/L

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



LABORATORIES, INC.

# Laboratory Report

CLIENT Blasland X Bouck Engineers, P.C JOB NO. 2887-026-517

DESCRIPTION Pittsfield, MA

Toxicity Characteristic Leaching Procedure MATRIX: NA

DATE COLLECTED 11-12-93 DATE RECEIVED 11-15-93

Description

40A-BGS-L4

Sample #

T0041

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 11-12-93

Date Mercury Analyzed 11-17-93

Comments:

Preliminary results

Certification No.: NY034

Units: mg/L

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



APPENDIX J, SECTION C-2

BLASLAND & BOUCK ENGINEERS, P.C.

(REQUEST FOR SAMPLING)

TO: Files

DATE: November 22, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 41-1 Brick Wall  
(Palm Oil Room) Sampling

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-16-93

LOCATION: Bldg 41-1 (Palm Oil Room)

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Brick Wall

PURPOSE: To collect samples for GE to determine the proper disposal method of the Bldg 41-1 Brick Wall (Palm Oil Room).

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

1.) Two (2) discrete full-core samples from the Bldg 41-1 Brick Wall (Palm Oil Room) are to be collected and analyzed for PCBs (Method 8080).

2.) G.E. requests that the samples collected be analyzed at the Pittsfield OBG Laboratory.

jjh

DELIVERED TO  
GRANT (BOWMAN) (Gd)  
11-24-93

BLASLAND AND BOUCK ENGINEERS, P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 41-1 Brick Wall  
(Palm Oil Room) Sampling

Date: November 22, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-17-93 on the Bldg 41-1 Brick Wall (Palm Oil Room).

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

- Two (2) discrete full-core samples from the Bldg 41-1 Brick Wall (Palm Oil Room) were collected and analyzed for PCBs (Method 8080).

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 (Attachment 1) have also been included.

jjh

Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 41-1 Brick Wall (Palm Oil Room) Sampling

201.17.06

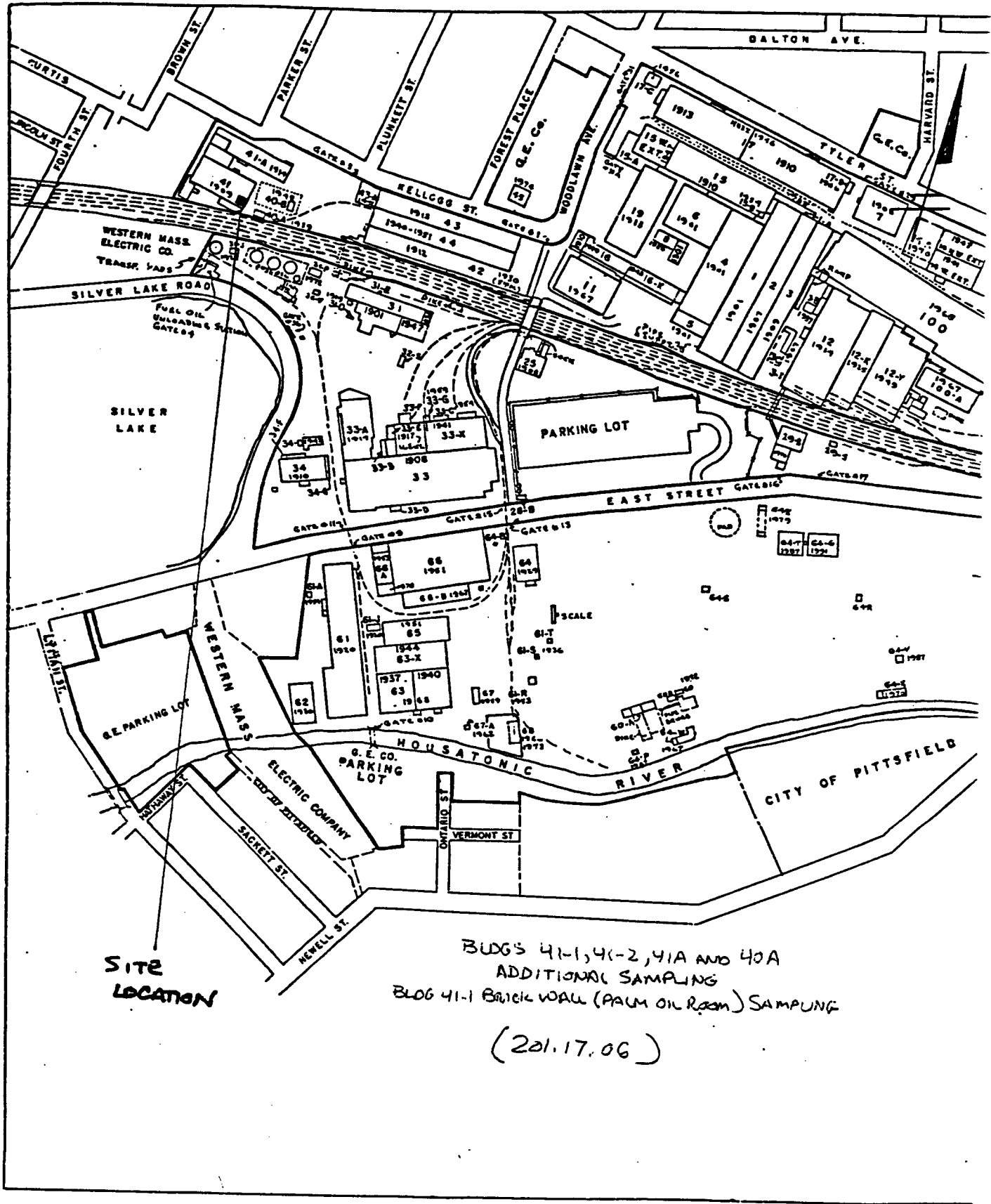
Table 1

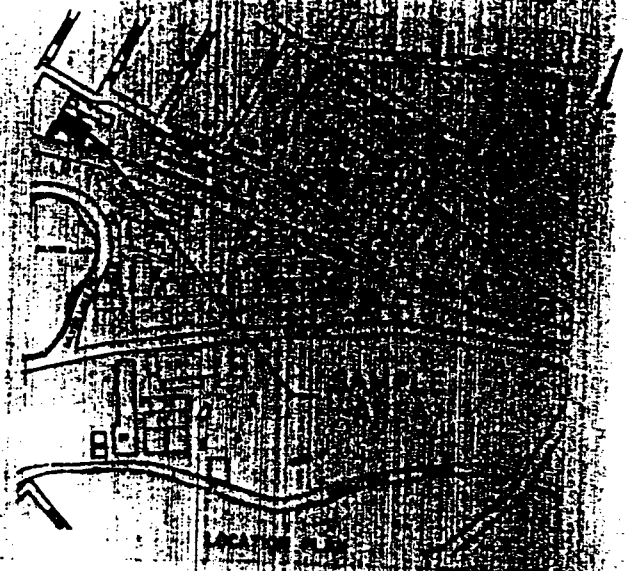
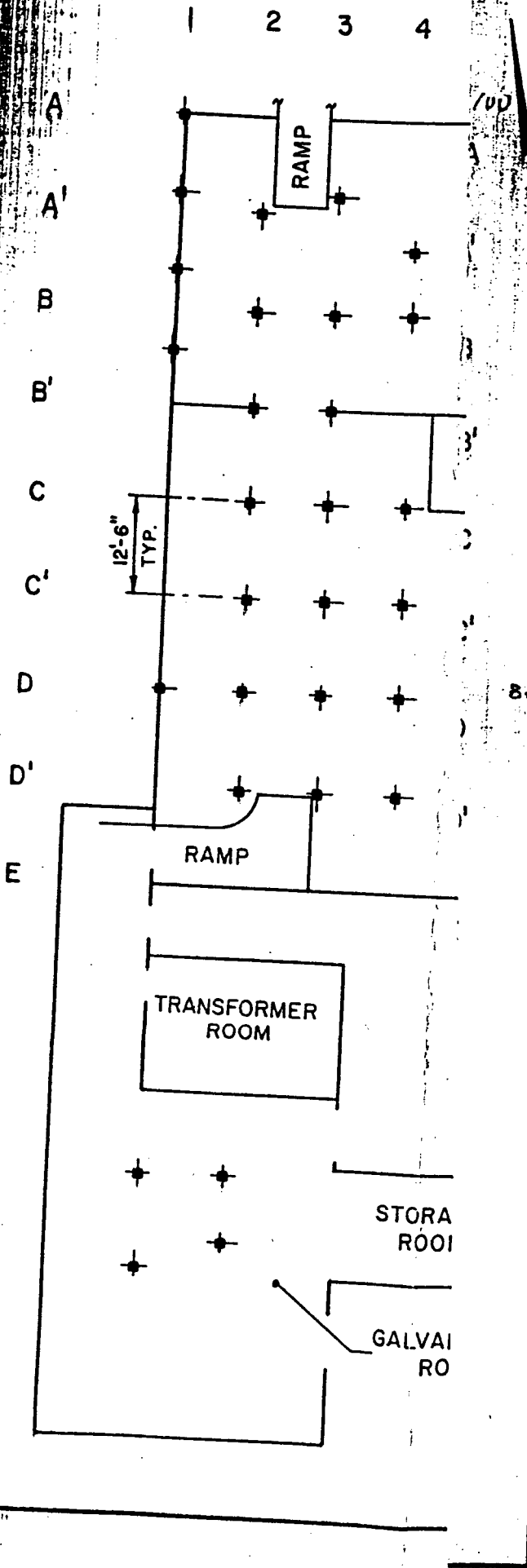
LAB ID	DATE SAMPLED	PCBs METHOD 8080	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41-1-POR-D1	11-17-93	1.3	67	BRICK WALL (PALM OIL ROOM)	DISCRETE FULL-CORE	(0-3")	2
41-1-POR-D2	11-17-93	<1.	68	BRICK WALL (PALM OIL ROOM)	DISCRETE FULL-CORE	(0-3")	2

jjh



FIGURE 1





BLOCKS 41-1, 41-2, 41A-40A  
 ADDITIONAL SAMPLING  
 BLOCK 41 BRICK WALL (PALM OIL ROOM) SAMPLE  
 (201.17.06)

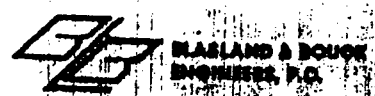
LEGEND

- ▲ - BRICK WALL (PALM OIL ROOM)
- - SAMPLE LOCATION
- - DISCRETE (FULL CORE)

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

XX-6

BUILDING 41 - FIRST FLOOR



RA 0-2

**ATTACHMENT 1**



LABORATORIES, INC.

4435

PRELIMINARY

NOV 19 1993

# Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 201-17-06

Bldg 41-1 Brick wall (Palm Oil Room) Sampling

Date Analyzed 11/18/93 DATE COLLECTED See Below DATE RECEIVED 11/18/93

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
41-1-POR-D1	11/18/93	11/17/93			1.3	Brick	A ↓
41-1-POR-D2	↓	↓			<1	↓	
Reagent Blank 111893-1:					<1		
Reference Sample 111893-1:					3.0/3 = 100%		
Matrix Spike 41-1-F83:					3.0/3 = 100%		
Matrix Spike Duplicate:					2.9/3 = 97%		
Precision:					3.0 vs 2.9 = 3.4% RPD		

Comments:

Certification No.:

Units: mg/kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



APPENDIX J, SECTION C-3

BLASLAND & BOUCK ENGINEERS, P.C.

(REQUEST FOR SAMPLING)

TO: Files

DATE: November 24, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41-1 Test & Prototype Area Floor Sampling)

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-18-93

LOCATION: Bldg 41-1

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Concrete Floor

PURPOSE: To collect samples for GE of the concrete floor in the test and prototype area located in Bldg 41-1.

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

1.) Three (3) discrete-core (one centimeter core) samples from the concrete floor in the test and prototype area are to be collected and analyzed for PCBs (Method 8080) and TPH by G.C.F.I.D.

2.) G.E. requests that the PCB samples collected be analyzed at the Pittsfield OBG Laboratory and the TPH samples collected be analyzed at the Syracuse, NY OBG Laboratory.

rfh

DELIVERED To  
GRANT BOWMAN (GE)  
12-3-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41-1 Test & Prototype Area Floor Sampling)

Date: November 24, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-18-93 on the concrete floor located in the test and prototype area in Bldg 41-1.

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

- Three (3) discrete-core (one centimeter core) samples from the concrete floor in the test and prototype area were collected and analyzed for PCBs (Method 8080) and TPH by G.C.F.I.D.

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 (Attachment 1) have also been included.

rfh

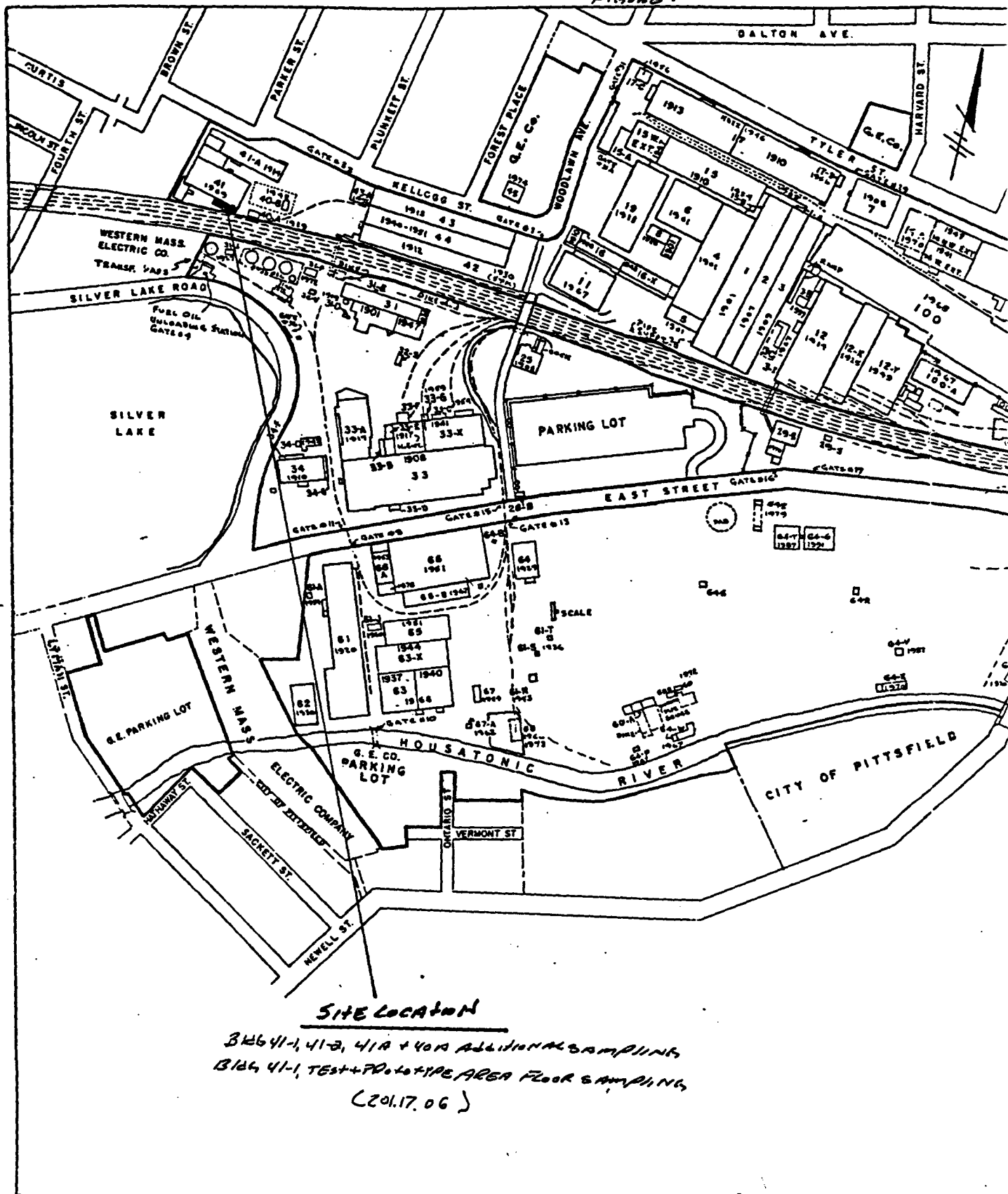


Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41-1 Test & Prototype Area Floor Sampling)  
201.17.06

Table 1

LAB ID	DATE SAMPLED	PCBs METHOD 8080	TPH by G.C.F.I.D.	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41-1-F37	11-18-93	1.5	SEE OBG LAB REPORT	69	CONCRETE FLOOR	DISCRETE-CORE	ONE CENTIMETER	2
41-1-F38	11-18-93	1.6	SEE OBG LAB REPORT	70	CONCRETE FLOOR	DISCRETE-CORE	ONE CENTIMETER	2
41-1-F39	11-18-93	8.9	SEE OBG LAB REPORT	71	CONCRETE FLOOR	DISCRETE-CORE	ONE CENTIMETER	2

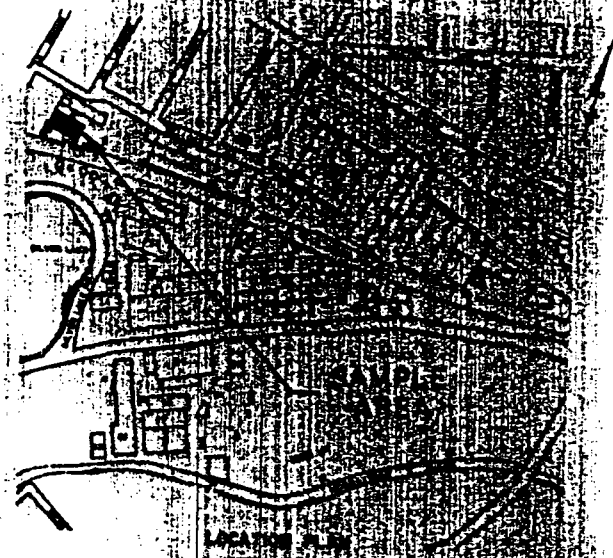
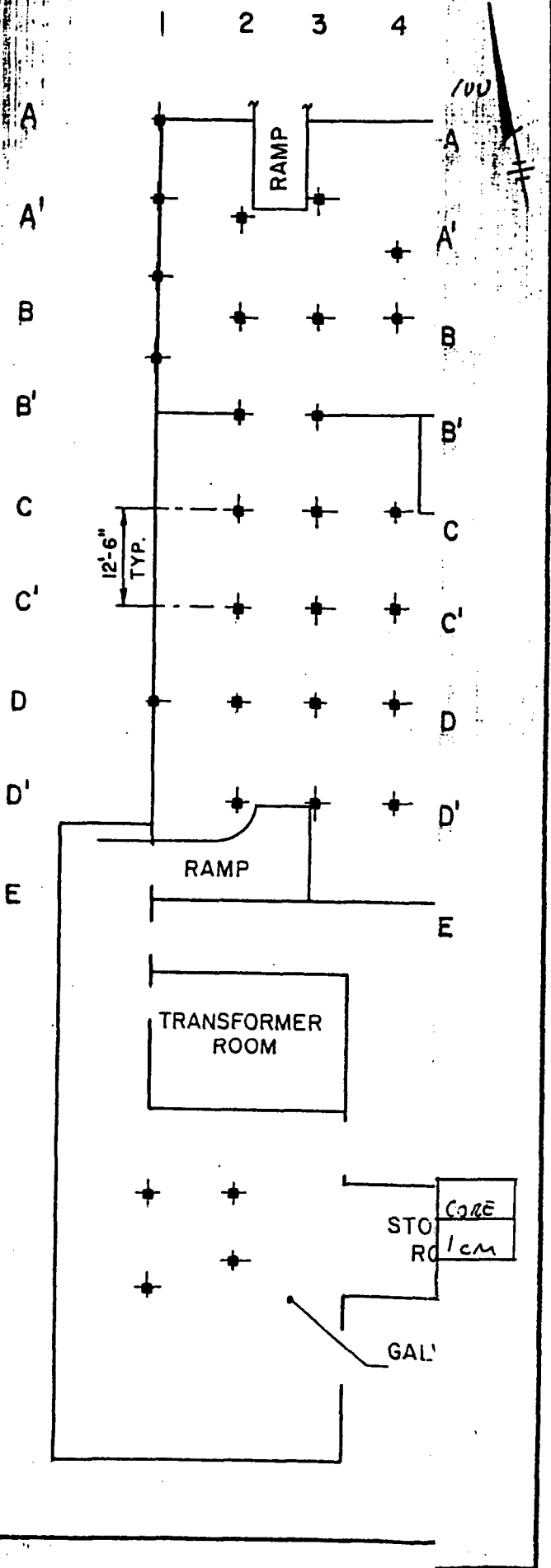
FIGURE 1



SITE LOCATION

BIB 41-1, 41-2, 41A + 41B ADDITIONAL SAMPLING  
 BIB 41-1, TEST + PHOTO TYPE AREA FLOOR SAMPLING,  
 (201.17.06)

FIGURE 2



BLDG 41-1 TEST & PROTOTYPE  
 AREA FLOOR SAMPLING  
 BLDGS 41, 41-2 AND 41A  
 ADDITIONAL SAMPLING  
 (25.11.06)

LEGEND (NOT TO SCALE)

- - CONCRETE SAMPLE  
 (1cm CORE SAMPLE)

GENERAL NOTES

- FOR SAMPLE RESULTS NOT FOUND ON MAP,  
 SEE O'BRIEN & ROUSE LAB REPORTS

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

XX-6

BUILDING 41 - FIRST FLOOR



O'BRIEN & ROUSE  
 ENGINEERS, P.C.

**ATTACHMENT 1**



4436

PRELIMINARY  
NOV 19 1993

# Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 201-17-06

Bldg 4-1 Test and Prototype Area Floor Sampling

Date Analyzed 11/18/93 DATE COLLECTED See Below DATE RECEIVED 11/18/93

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
41-1-F37	11/18/93	11/18/93			1.5	concrete	A
41-1-F38	↓	↓			1.6	↓	↓
41-1-F39					8.9		
A Reagent Blank 111893-2:					< 1		
Reference Sample 111893-2:					3.0/3 = 100 %		
Matrix Spike 41-1-F33:					3.0/3 = 100 %		
Matrix Spike Duplicate					2.9/3 = 97 %		
Precision:					3.0 vs 2.9 = 3.4 % RPD		

Comments:

Certification No.:

Units: mg/kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



To: Jim Hesse  
 Co: B713 Job #: 2887.026.517  
 Fax#: 413-494-2041  
 Pages: 1 From: A. Crescenzi  
 OBG LABS (315) 437-0200/463-7554 Fax

# Laboratory Report

CLIENT BLASLAND + BOUCK ENGINEERS, P.C.

JOB NO. 2887.026.517

DESCRIPTION PITTSFIELD, MA - BLDG. 41-1, TEST & PROTOTYPE AREA FLOOR SAMPLING (COSTUME ROOM) #201.1706

MATRIX: SOLID

Date Extracted 11/29/93

DATE COLLECTED 11/18/93

DATE RECEIVED 11/19/93

Date Analyzed 11/29/93

**PRELIMINARY**  
 DEC - 2 1993

Description

41-F37

41-F38

41-VF37

Sample #

T0295\*

T0296

T0297

**Petroleum Analysis:**

	41-F37	41-F38	41-VF37
GASOLINE	L 500.	L 500.	L 500.
MINERAL SPIRITS	L 100.	L 100.	L 100.
#1 FUEL (KEROSENE)	L 250.	L 250.	L 250.
#2 FUEL (DIESEL)	L 250.	L 250.	L 250.
#6 FUEL	L 1200.	7900.	3900.
LUBRICATING, INSULATING, OR HYDRAULIC OIL	L 2500.	L 2500.	L 2500.
OTHER		D	D

The sample(s) ~~was~~ (were) analyzed by gas chromatography with a capillary column and a flame ionization detector. The petroleum detected in the sample(s), if any, was compared to common petroleum products (i.e., gasoline, mineral spirits, kerosene, fuel oils and lubricating oils, etc.)

COMMENTS: 1) Unrecognizable hydrocarbon response in the #6 FUEL range.

Estimated concentration determined using a #6 FUEL standard.

Comments: \* ELEVATED DETECTION LIMITS DUE TO MATRIX INTERFERENCES.

Certification No.: NY034

Units: mg/Kg  
(PPM)

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



**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							
201-1706		Bldg 41-1, 41-2, 41A+40A ADDITIONAL SAMPLING													
		Bldg 41-1-TEST + 720 Lot 4 PE ARCA FLOOR SAMPLINGS													
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE								REMARKS	
						SOLID WIPPER	WIPE	WATER							
41-1-F37		11/10/93	1000		X	X			1	X					
41-1-F38		11/10/93	1030		X	X			1	X					
41-1-F39		11/10/93	1100		X	X			1	X					
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)			
<i>Samuel P. Head</i>		11/10/93 1100		<i>Samuel P. Head</i>			<i>Samuel P. Head</i>			11/10/93 1115					
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						
				<i>J. P. MacKinnon</i>			11/18/93 1115		DELIVERED TO PITTSFIELD OBM LAB						





APPENDIX J, SECTION C-4

BLASLAND & BOUCK ENGINEERS, P.C.

(REQUEST FOR SAMPLING)

TO: Files

DATE: November 22, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 40A Below Grade Sump Sampling  
- Concrete Floor)

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-8-93

LOCATION: Bldg 40A (Below Grade Sump)

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Concrete Floor

PURPOSE: To collect samples for GE on the concrete floor located in the Bldg 40A below grade sump.

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

1.) Two (2) field-composite (one centimeter core) samples from the concrete floor are to be collected and analyzed for TCLP (Metals Only - Method 1311).

2.) G.E. requests that the samples collected be analyzed at the Syracuse, NY OBG Laboratory.

jjh

DELIVERED TO  
GRANT BOWMAN  
11-24-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files

From: Bruce Eulian

Re: Bldgs 41-1, 41-2, 41A & 40A

Additional Sampling

(Bldg 40A Below Grade Sump Sampling  
- Concrete Floor)

Date: November 22, 1993

File No: 201.17.06

cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-9-93 on the concrete floor located in the Bldg 40A below grade sump.

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

- Two (2) field-composite (one centimeter core) samples from the concrete floor were collected and analyzed for TCLP (Metals Only - Method 1311).

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 (Attachment 1) have also been included.

jjh

Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 40A Sump Sampling-Concrete Floor)

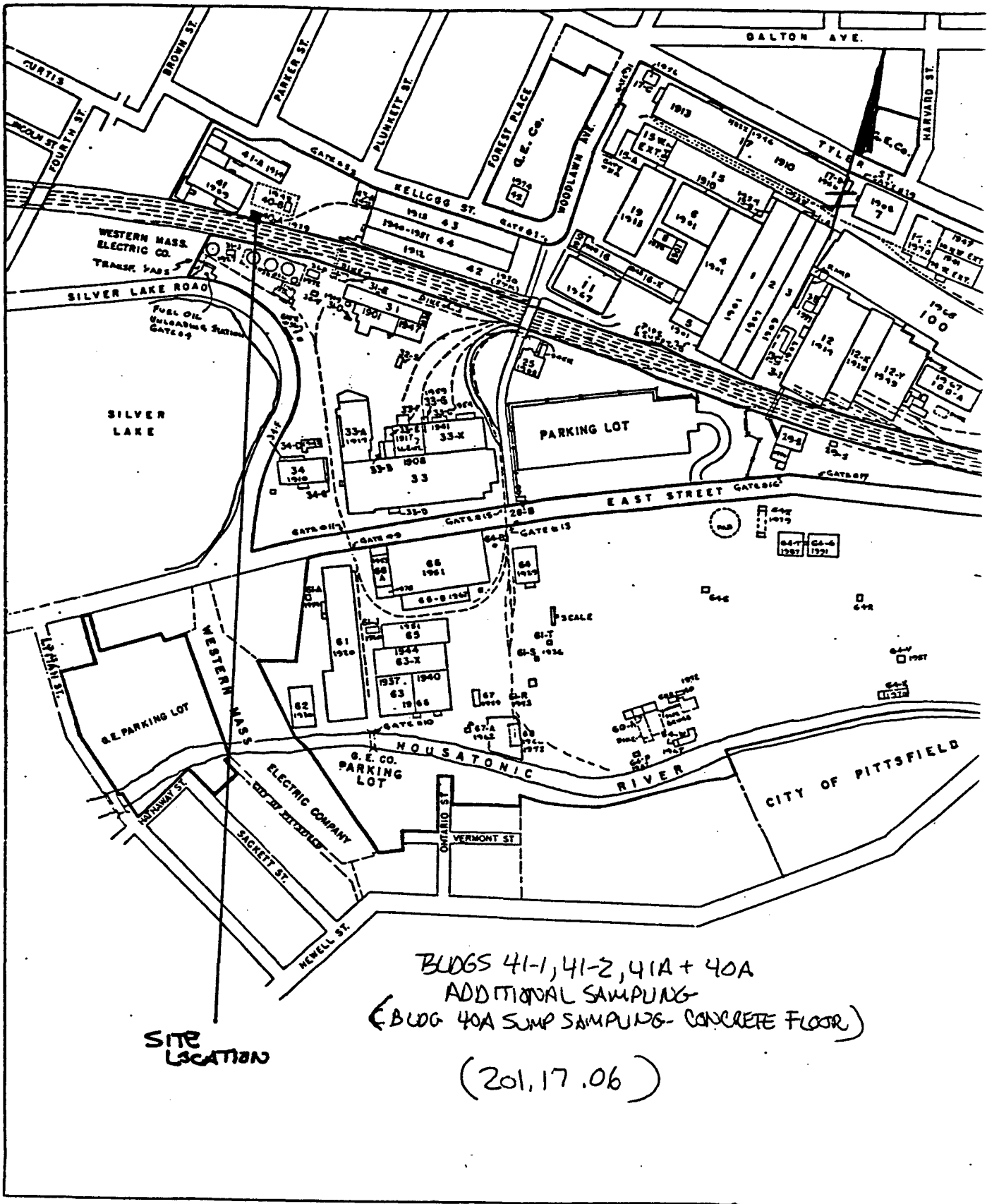
201.17.06

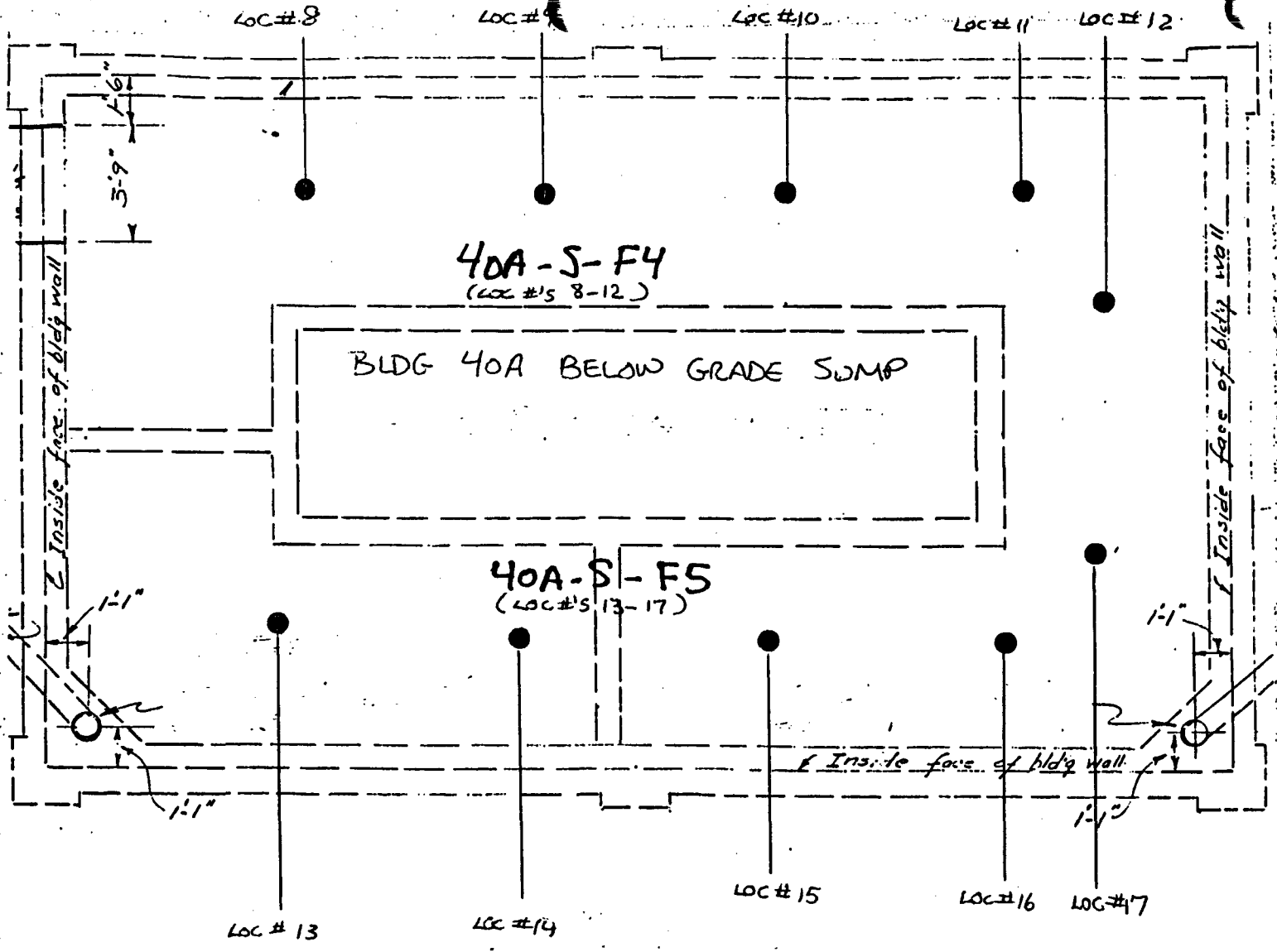
Table 1

LAB ID	DATE SAMPLED	TCLP (METALS ONLY) METHOD 1311	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
40A-S-F4	11-9-93	SEE OBG LAB REPORT	8-12	CONCRETE FLOOR	FIELD-COMPOSITE CORE	ONE CENTIMETER	2
40A-S-F5	11-9-93	SEE OBG LAB REPORT	13-17	CONCRETE FLOOR	FIELD-COMPOSITE CORE	ONE CENTIMETER	2

jjh

FIGURE 1





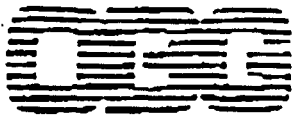
BLDG 41-1, 41-2, 41A AND 40A  
 ADDITIONAL SAMPLING  
 BLDG 40A BELOW GRADE SUMP SAMPLING  
 - CONCRETE FLOOR

(201.17.06)

LEGEND  
 (NOT TO SCALE)

● - CONCRETE FLOOR SAMPLE LOCATION  
 FIELD COMPOSITE (1 CM CORE)

**ATTACHMENT 1**



LABORATORIES, INC.

To: BRUCE EULIAN  
Co: BFB Job #: 2887.026.517  
Fax#: 413-494-2041  
Pages: 2 From: JOHN REESE  
OBG LABS (315) 437-0200/463-7554 Fax

# Laboratory Report

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

DESCRIPTION Pittsfield, MA

Toxicity Characteristic Leaching Procedure MATRIX: Concrete

DATE COLLECTED 11-9-93 DATE RECEIVED 11-10-93

Description

40A-S-F4

40A-S-F5

Sample #

59891

59892

TCLP Metals:

ARSENIC

0.6 \*

0.7 \*

BARIUM

< 10.

< 10.

CADMIUM

< 0.1

< 0.1

CHROMIUM

< 0.5

< 0.5

LEAD

< 0.5

< 0.5

MERCURY

< 0.0005

< 0.0005

SELENIUM

0.2 \*

0.2 \*

SILVER

< 0.5

< 0.5

PRELIMINARY

NOV 16 1993

Analytical Record:

Date Leachate Created 11-10-93

Date Mercury Analyzed 11-12-93

Comments:

\* Preliminary results

Certification No.: NY 034

Units: mg/L

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_





APPENDIX J, SECTION C-5

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

TO: Files

DATE: December 28, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(GE Drum# 43413 For Profile Approval)

INITIATOR: Aimee Cole (GE)

DATE: 12-13-93

LOCATION: Bldg 78

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Sludge\Residue

PURPOSE: To collect a sample for GE to determine the proper disposal method for the Trench Sludge\Residue that was placed into GE Drum# 43413 (see attached letter from Aimee Cole (GE) to Bruce Eulian (B&B) dated 12-09-93 ) that was generated during the cleaning of the trench in Bldg 40A-1. The drum is located in Bldg 78.

NOTES: The following sampling program was implementated at the request of Aimee Cole (GE), (see attached sample request letter dated 12-09-93).

1.) One (1) discrete-grab sample Trench Sludge\Residue that is in GE Drum# 43413 (from Bldg 40A-1) is to be sampled and analyzed for Profile Approval (Profile #T07683).

2.) The sample is to be relinquished to Joe Bujak (Zorex) for transportation to Clean Harbors, Inc. (Albany, N.Y.) for profile analysis.

agp

December 9, 1993

To: B. Eulian - B&B

From: A. Cole

Re: Profile Approval Sample

Please take 2 1 quart size samples of each of the following for profile approval. This extra amount of sample is required in addition to the samples we have already sent to Clean Harbors. These drums are located at bldg. 78.

<u>Profile Number</u>	<u>Orange ID</u>	<u>Material</u>
T07683	43413	TRENCH SLUDGE/RESIDUE FROM BLDG. 40A.
T07699	42113	SHOT BLAST RESIDUE

Please charge this sampling to the 40's demolition.

DELIVERED TO  
GRANT BOWMAN(GE)  
12-30-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(GE Drum# 43413 For Profile Approval)

Date: December 28, 1993  
File No: 201.17.06  
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on 12-13-93 on the sludge\residue that was generated during the cleaning of the trench in Bldg 40A-1. The sludge\residue was placed into GE Drum #43413 and transported to Bldg 78.

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

- One (1) discrete-grab sample of the Trench Sludge\Residue was collected from GE drum #43413 and analyzed for Profile Approval (Profile #T07683).

Note: The sample was collected using a 2" O.D. piece of Lexan tube. The sample was relinquished to Joe Bujak (Zorex) for transportation to Clean Harbors, Inc. (Albany, N.Y.) for profile analysis.

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). Sampling was performed for Profile Approval, therefore, no analytical report will be provided .

agp

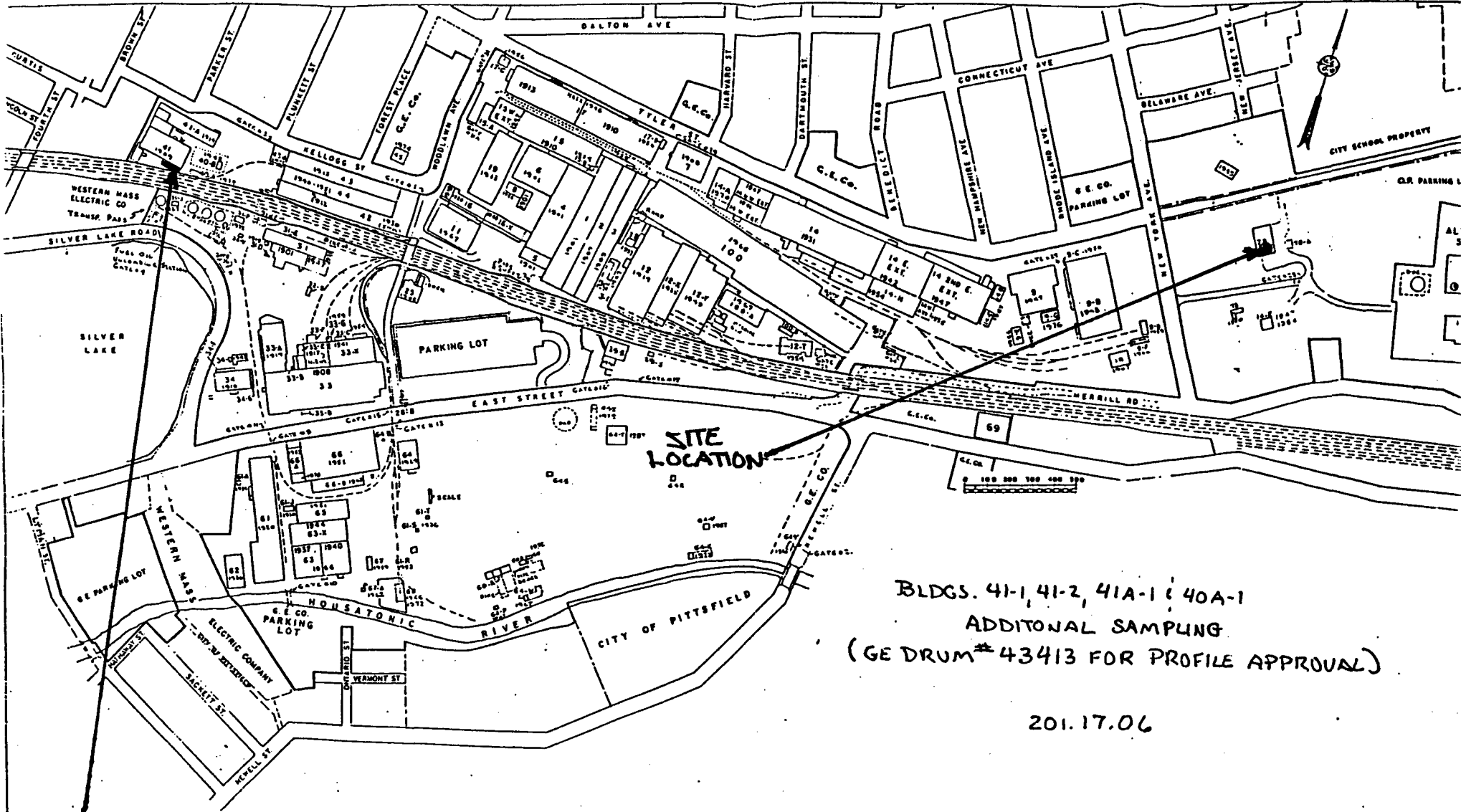
Bldgs 41-1, 41-2, 41A and 40A  
(Additional Sampling)  
(GE Drum #43413 For Profile Approval)  
(201.17.06)

Table 1

LAB ID	DATE SAMPLED	SAMPLE LOCATION GE DRUM#	PROFILE NUMBER	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
78-T07683-C1-R1	12-13-93	43413	T07683	SLUDGE- RESIDUE	DISCRETE-GRAB	0"-32"	2

NOTE: The sample was collected using a 2" O.D. piece of Lexan tube.  
The sample was relinquished to Joe Bujak (Zorex) for transportation  
to Clean Harbors, Inc. (Albany, N.Y.) for profile analysis.

agp




BLDGS. 41-1, 41-2, 41A-1 (40A-1)  
 ADDITIONAL SAMPLING  
 (GE DRUM # 43413 FOR PROFILE APPROVAL)

201.17.06

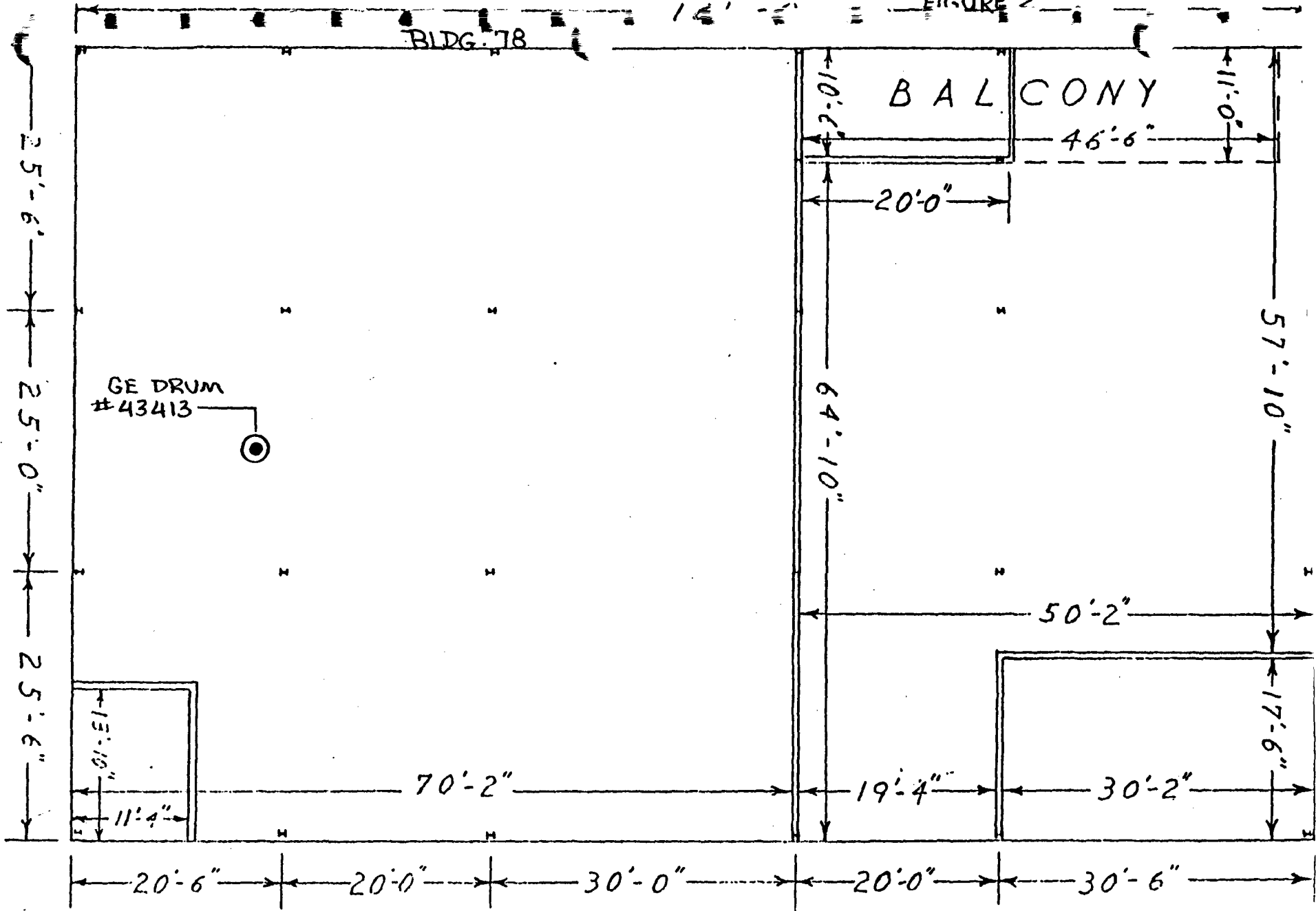
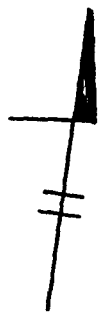
ORIGIN OF  
 GE DRUM #  
 43413

PITTSFIELD WOR



GROUND PLAN  
 SHEET-1  
 CORRECTED TO JAN 1, 1991  
 SCALE 1"=200' DWG NO. 2  
 APPROVED *[Signature]* 1/91

FIGURE 2



**LEGEND**  
 ○ - 55 GAL. DRUM  
 ● - SAMPLE LOCATION

**NOTES**  
 DRUM WAS SAMPLED  
 FOR PROFILE APPROVAL  
 PROFILE # TO 76 83  
 ONLY

BLDGS. 41-1, 41-2, 41A-1 & 40A-1  
 ADDITIONAL SAMPLING  
 (GE DRUM# 43413 FOR PROFILE APPROVAL)



ID: 14:55 No. 009 P. 02  
 JAN 13 '94



**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 (BLDG. 41-1, 41-2, 41A-1 & 42A-1 ADDITIONAL SAMPLING)						NO. OF CONTAINERS	PROFILE APPROVAL ONLY					REMARKS
201.17.06		TRENCH SLUDGE/RESIDUE ADDITIONAL SAMPLING (FOR PROFILE APPROVAL)												
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE								
						SOLID	PIPE	WATER						
78-TC7683-C1-R1		12/13/93	1220		X	X			1	X				
														FOR PROFILE APPROVAL ONLY
														(PROFILE # TO 7683)
														** GLASSWARE FOR SAMPLE WAS SUPPLIED BY CLEAN HARBOUR ALBANY, N.Y.
SAMPLER BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		DATE/TIME	RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		
<i>A. H. Piro Jr.</i>		12/13/93 1220	<i>Joe Bujak</i>		12/13/93 11:53am	<i>Joe Bujak</i>		12/13/93 4:15 PM	<i>Joe Bujak</i>					
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		DATE/TIME	RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		
<i>Joe Bujak</i>		12/15/93 10AM	<i>Joe Bujak</i>		12/17/93 11:00am	<i>Joe Bujak</i>								
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME	REMARKS RELINQUISHED TO JOE BUJAK (ZOREX CORP) FOR DELIVERY TO CLEAN HARBOUR ALBANY, N.Y.								



**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 (BLDG. 41-1, 41-2, 41A-1 & 40A-1 ADDITIONAL) SAMPLING						NO. OF CONTAINERS	PROFILE APPROVAL ONLY					REMARKS
201.17.06		TRENCH SLUDGE/RESIDUE ADDITIONAL SAMPLING (FOR PROFILE APPROVAL)												
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE								
						SOLID	WIPE	WATER						
78-TO7683-C1-R1		12/13/93	1220		X	X			1	X				
														FOR PROFILE APPROVAL <u>ONLY</u>  (PROFILE ** TO 7683)  ** GLASSWARE FOR SAMPLE WAS SUPPLIED BY CLEAN HARBORS ALBANY, N.Y.
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		
<i>A.H. Post Jr.</i>		12/13/93 1220		<i>Joe Bujak</i>		12/13/93 1250 PM		<i>Joe Bujak</i>		12/14/93 4:15 PM		<i>John Shuler</i>		
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS RELINQUISHED TO JOE BUJAK (ZOREX CORP) FOR DELIVERY TO CLEAN HARBORS ALBANY, N.Y.					

APPENDIX J, SECTION C-6

BLASLAND & BOUCK ENGINEERS, P.C.

(REQUEST FOR SAMPLING)

TO: Files

DATE: November 8, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41A Redlead Manhole Sampling)

INITIATOR: Jeff Ruebesam (GE)

DATE: 10-29-93

LOCATION: Bldg 41A (Redlead Area)

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Redlead Manhole Residue

PURPOSE: To collect samples for GE of the residue located in the manholes downstream from the redlead area in Bldg 41A.

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

1.) Two (2) discrete-grab samples of the residue located in the manholes in the redlead area in Bldg 41A are to be sampled and analyzed for PCB's (Method 8080) and TCLP (Metals Only - Method 1311).

2.) G.E. requests that the samples collected be analyzed at the Syracuse, NY OBG Laboratory.

jjh

DELIVERED TO  
GRANT BOWMAN  
11-24-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files

Date: November 5, 1993

From: Bruce Eulian

File No: 201.17.06

Re: Bldgs 41-1, 41-2, 41A & 40A

cc: Jeff Ruebesam (GE)

Additional Sampling

(Bldg 41A Redlead Manhole Sampling)

The following is a summary of the sampling program conducted on 11-1-93 on the residue located in the manholes in the redlead area in Bldg 41A.

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

- Two (2) discrete-grab samples of the residue located in the manholes in the redlead area in Bldg 41A were collected and analyzed for PCB's (Method 8080) and TCLP (Metals Only - Method 1311).

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 (Attachment 1) have also been included.

jjh

Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41A Redlead Manhole Sampling)

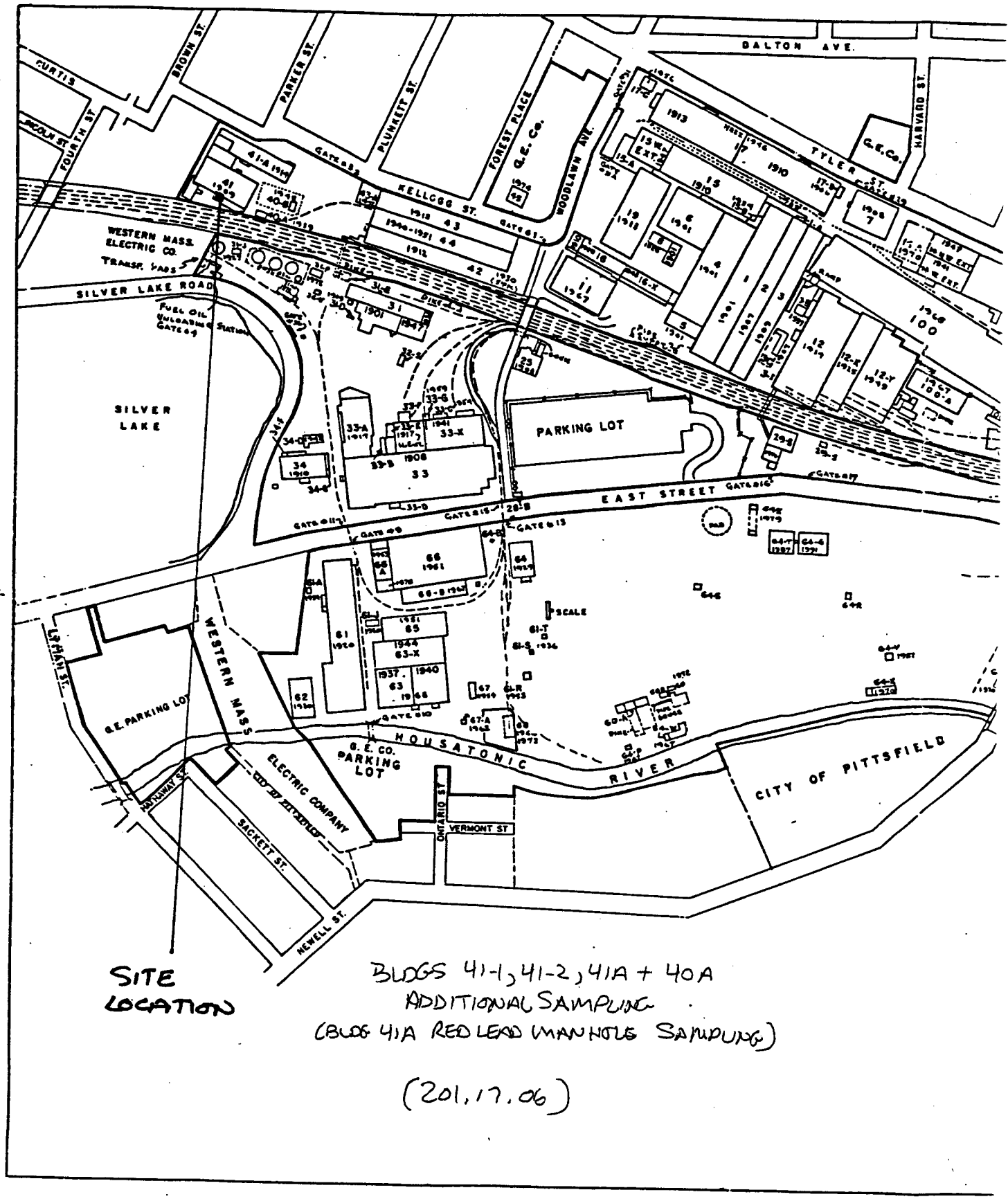
201.17.06

Table 1

LAB ID	SAMPLE DATE	PCB (PPM)	TCLP (METALS ONLY)	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41A-C3	11-1-93	55.	SEE OBG LAB REPORT	33	RESIDUE FROM MANHOLE	DISCRETE-GRAB	(0-3")	2
41A-C4	11-1-93	34.	SEE OBG LAB REPORT	34	RESIDUE FROM MANHOLE	DISCRETE-GRAB	(0-3")	2

jjh

FIGURE 1



SITE LOCATION

BUDGS 41-1, 41-2, 41A + 40A  
ADDITIONAL SAMPLING  
(BUDG 41A RED LEAD MANHOLE SAMPLING)

(201,17.06)

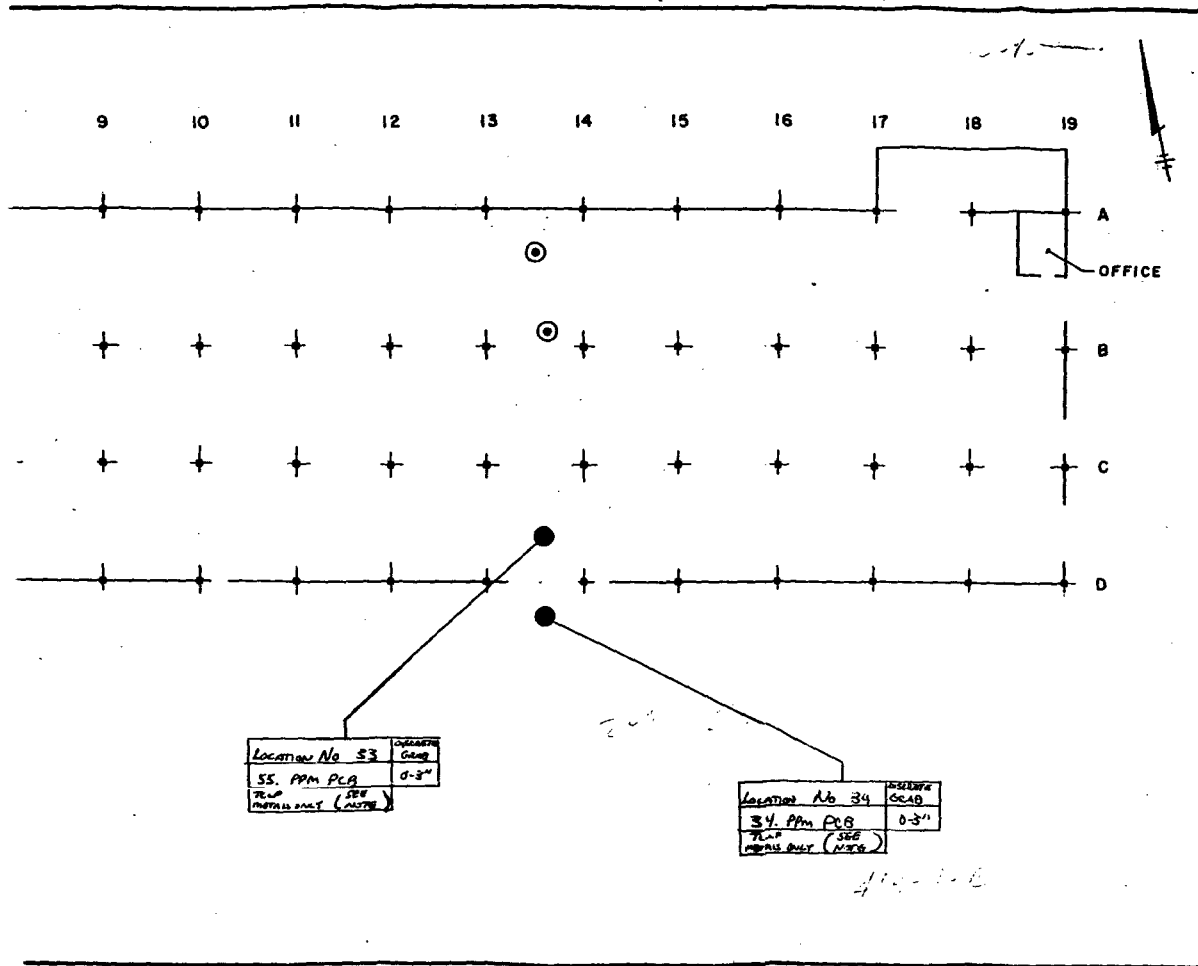
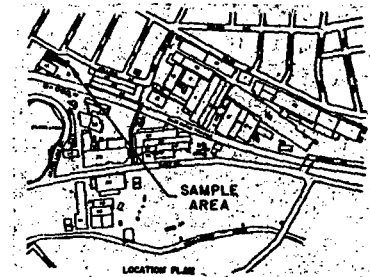


FIGURE 2



BLOCKS 41-1, 41-2, 41A AND 41A  
 ADDITIONAL SAMPLING  
 BLDG 41A RED LEAD MANHOLE SAMPLING  
 (201, 17, 06)

LEGEND

- - RED LEAD MANHOLE RESIDUE SAMPLE LOCATION (DISCHARGE GRAB)
- ⊙ - MANHOLE LOCATION (0-3")

GENERAL NOTES:

- FOR SAMPLING RESULTS NOT FOUND ON MAP, SEE OEG LAB REPORTS

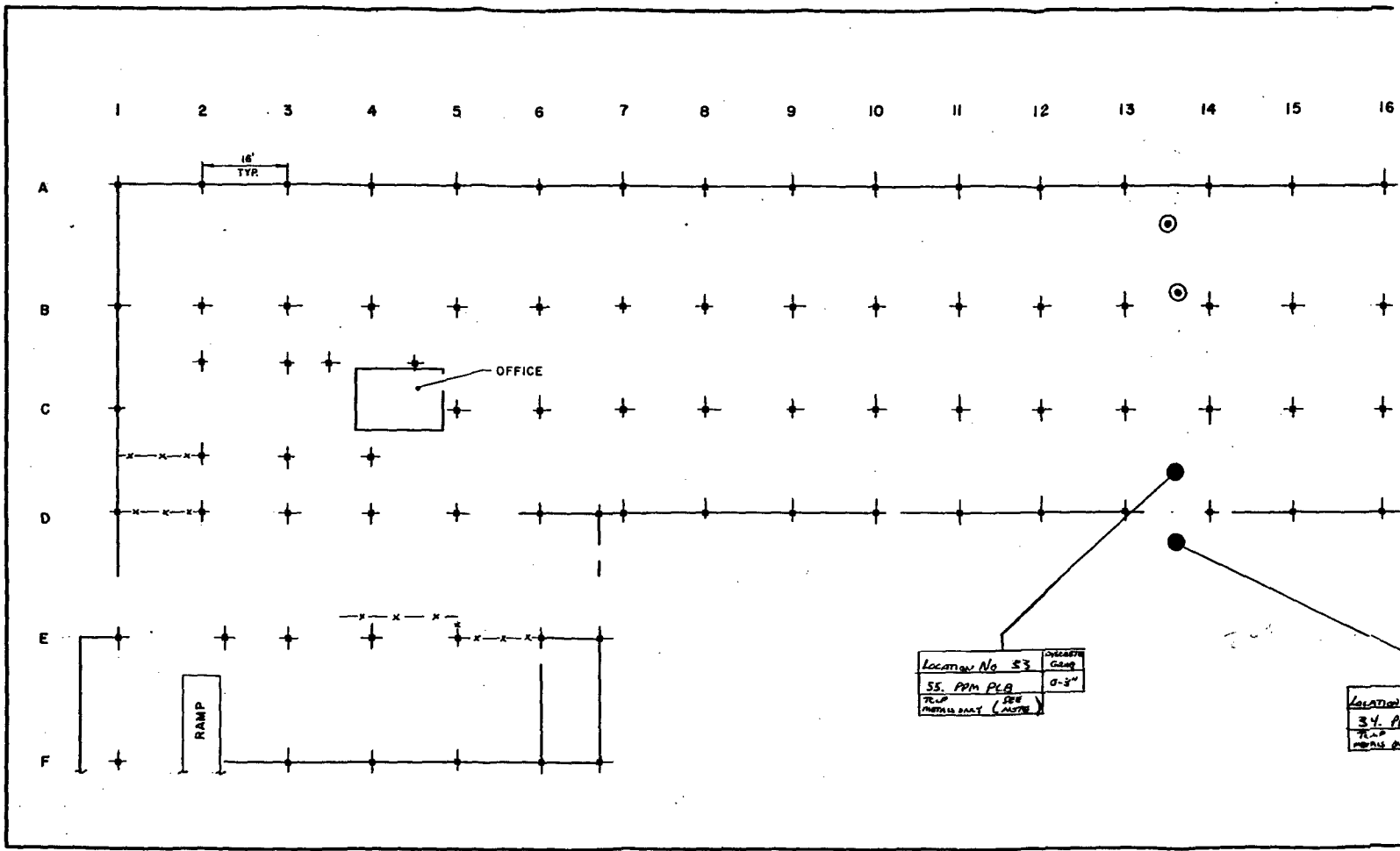
GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

(X-2)

BUILDING 41A - FIRST FLOOR







**ATTACHMENT 1**



To: Bruce Evlian  
 Co: B+B Job #: 2887.026.521  
 Fax#: 413-494-2041  
 Pages: 3 From: A. Crescenzi  
 OBG LABS (315) 437-0200/463-7554 Fax

# Laboratory Report

CLIENT BLACAND & BOWCK ENGINEERS, INC. JOB NO. 2887.026.517

DESCRIPTION PITTSFIELD, MA. BLDGS. 41-1, 41-2, 41A & 40A SAMPLING

B&B # 201.17.06 MATRIX: SOLID

Date analyzed: 11/4/93 DATE COLLECTED 11-01-93 DATE RECEIVED 11-02-93

**PRELIMINARY**  
**NOV 5 1993**

Description	Sample #	PCB	Arochlor	PCTS
41A-C3	59488	55	1254/1260*	95
41A-C4	59488	34	↓	85

Comments:  
 \* altered arochlor

Certification No.: NY 034  
 Units: mg/kg dry weight (ppm)

Authorized: \_\_\_\_\_  
 Date: \_\_\_\_\_



LABORATORIES, INC.

PRELIMINARY  
NOV 5 1993

# Laboratory Report

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

DESCRIPTION Pittsfield, Ma: blasp: 41-1; 41-2, 41A + 40A

Toxicity Characteristic Leaching Procedure MATRIX: Solid

DATE COLLECTED 11-01-93 DATE RECEIVED 11-02-93

Description	41A-C3	41A-C4	41-2-F18
Sample #	59487	59489	59491
TCLP Metals:			
ARSENIC <i>Preliminary</i>	<1.0	<0.5	<0.5
BARIUM	<10.	<10.	<10.
CADMIUM	<0.1	<0.1	<0.1
CHROMIUM	<0.5	<0.5	<0.5
LEAD	<10.	51.	1.5
MERCURY <i>Preliminary</i>	20.005	40.005	20.005
SELENIUM <i>Preliminary</i>	0.2	<0.1	<0.1
SILVER	<0.5	<0.5	<0.5

Analytical Record:  
Date Leachate Created 11-2-93  
Date Mercury Analyzed 11-5-93

Comments:

Certification No.: NY 034  
Units: mg/L (ppm)



APPENDIX J, SECTION C-7

BLASLAND & BOUCK ENGINEERS, P.C.

(REQUEST FOR SAMPLING)

TO: Files

DATE: November 12, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41A-1 Red Lead Pit Cover Sampling)

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-8-93

LOCATION: Bldg 41A-1

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Concrete (from pit cover)

PURPOSE: To collect samples for GE of the concrete from the removal of the Red Lead pit cover located in Bldg 41A-1.

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

1.) One (1) discrete-core (one centimeter core) sample from the concrete from the removal of the Red Lead pit cover is to be collected and analyzed for PCBs (Method 8080) and TCLP (Metals Only - Method 1311) after Clean Berkshires Inc. (CBI) cleans any residue (if needed).

2.) G.E. requests that the PCB sample collected be analyzed at the Pittsfield OBG Laboratory and the TCLP sample collected be analyzed at the Syracuse, NY OBG Laboratory.

jjh

DELIVERED TO  
GRANT BOWMAN (GE)  
11-24-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41A-1 Red Lead Pit Cover Sampling)

Date: November 12, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-11-93 on the concrete from the removal of the Red Lead pit cover located in Bldg 41A-1.

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

- One (1) discrete-core (one centimeter core) sample from the concrete from the removal of the Red Lead pit cover was collected and analyzed for PCBs (Method 8080) and TCLP (Metals Only - Method 1311) after Clean Berkshires Inc. (CBI) cleaned any residue.

**Note:** This sample was taken on the underside of the Red Lead pit cover using a bushing tool.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample location (Figure 2). Preliminary analytical reports provided by OBG Laboratories (Attachment 1) have also been included.

jjh



Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41A-1 Red Lead Pit Cover Sampling)

201.17.06

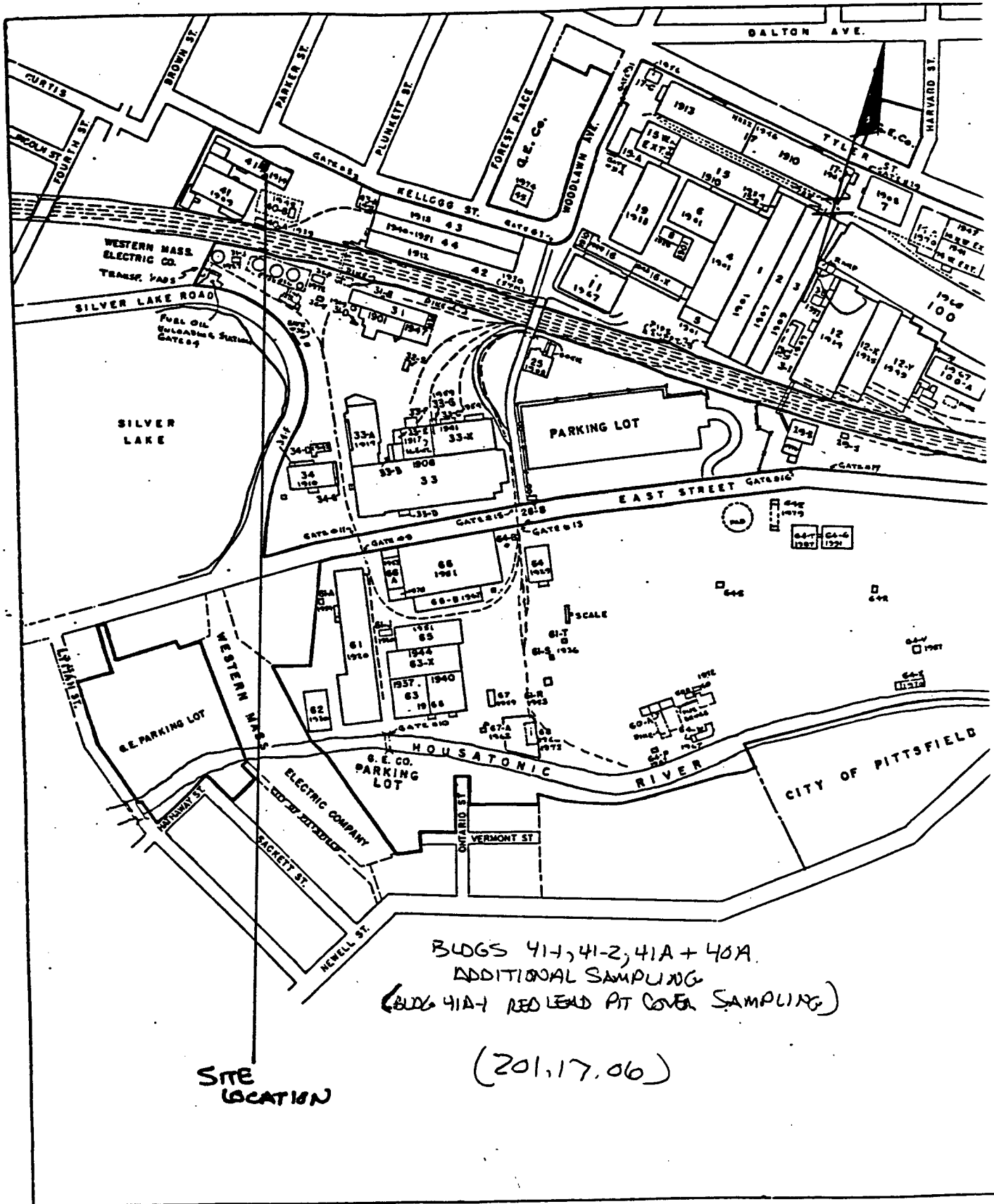
Table 1

LAB ID	DATE SAMPLED	PCBs METHOD 8080	TCLP (METALS ONLY) METHOD 1311	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41A-1-F31	11-11-93	<2.0	SEE OBG LAB REPORT	35	CONCRETE	DISCRETE-CORE	ONE CENTIMETER	2

NOTE: THIS SAMPLE WAS TAKEN ON THE UNDERSIDE OF THE RED LEAD CONCRETE PIT COVER USING A BUSHING TOOL.

jjh

FIGURE 1

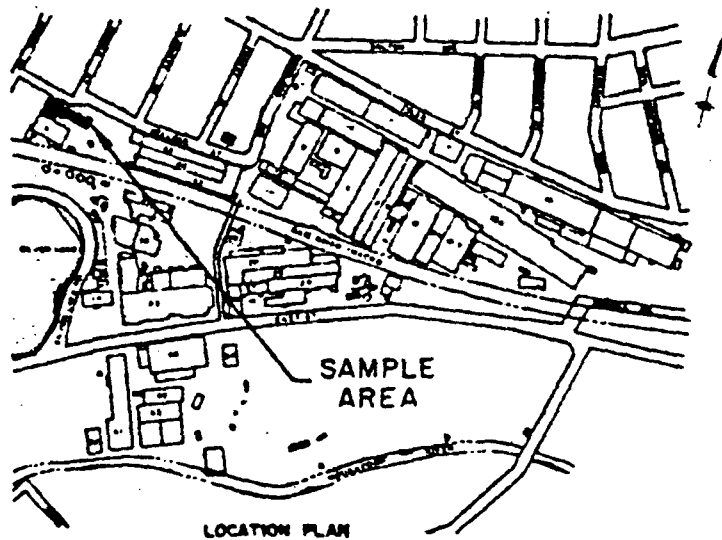
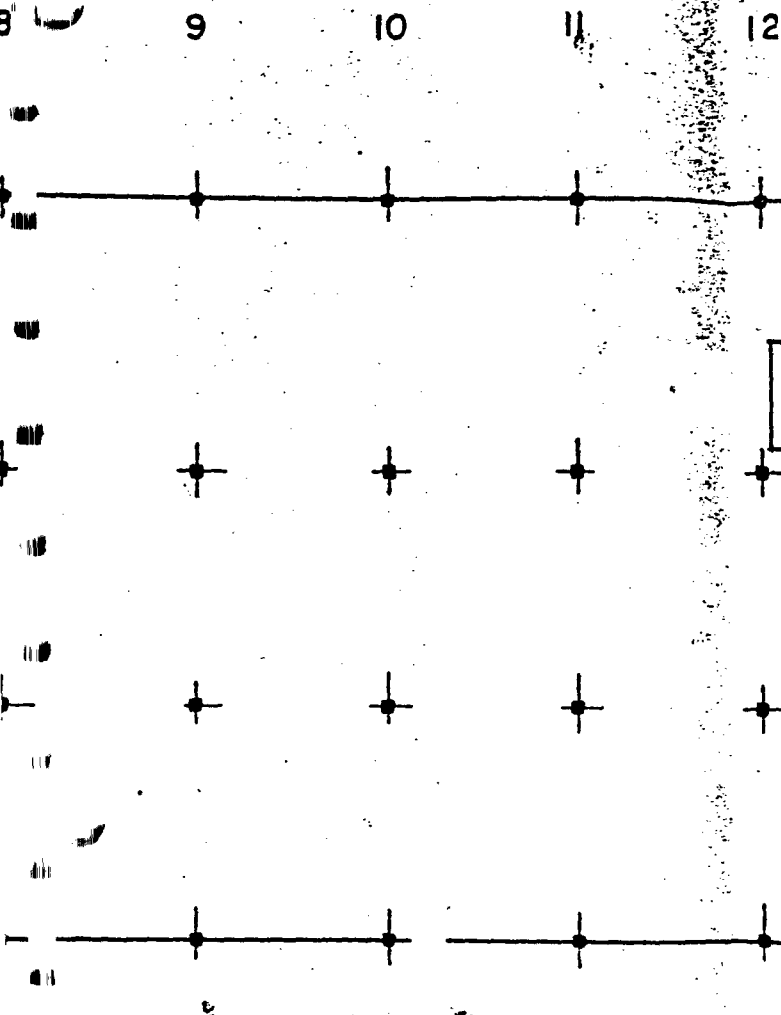


BUDGS 41-1, 41-2, 41A + 40A  
ADDITIONAL SAMPLING  
(BUDG 41A-1 RED LEAD PIT COVER SAMPLING)

(201.17.06)




SITE  
LOCATION

FIGURE 2



BLDGS 41-1, 41-2, 41A + 40A  
 ADDITIONAL SAMPLING  
 (BLDG 41A RED LEAD PIT COVER SAMPLING)  
 (2d. 17.06)

LEGEND

-  - CONCRETE SAMPLE LOCATION
-  - RED LEAD PIT
-  - CONCRETE PILE


GENERAL NOTES:  
 FOR SAMPLING RESULTS NOT FOUND ON MAP,  
 SEE ORG LAB REPORTS

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

LOCATI
< 2.0
TRIP
METAL

X-2

BUILDING 41A - FIRST FLOOR

 BLASLAND & BOUCK  
 ENGINEERS, P.C.

Base

**ATTACHMENT 1**



LABORATORIES, INC.

To: BRUCE EWAN  
Co: B & B Job #: 2887-026-517  
Fax#: 413-494-8291  
Pages: 3 From: COMMEN KAPIL  
OBG LABS (315) 437-0200/463-7954 Fax

# Laboratory Report

CLIENT BLASLAND & BOLLICK ENGINEERS, PC JOB NO. 2887.026.517

DESCRIPTION Pittsfield, MA BLDG 41A RED LEAD PIT COVER SAMPLING

B&B Project # 701.17.06 Matrix: Concrete

Analyzed: 11/16/93 DATE COLLECTED 11-11-93 DATE RECEIVED 11/16/93

PRELIMINARY	
NOV 16	1993

Description

PCB

41A-1-F31

C2.0

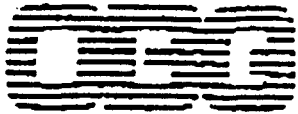
Comments:

Certification No.: N4034

Units: mg/kg

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



LABORATORIES, INC.

To: Bruce Eulian  
Co: BYB Job #: 2887.026.517  
Fax#: 413-494-2041  
Pages: 2 From: A. Crascenzi  
OBG LABS (315) 437-0200/463-7554 Fax

# atory Report

CLIENT Blasland & Bouck Engineers, P.C. JOB NO. 2887-026-517

DESCRIPTION Pittsfield, MA

Toxicity Characteristic Leaching Procedure MATRIX: Concrete

DATE COLLECTED 11-11-93 DATE RECEIVED 11-12-93

Description

41A-1-F31

Sample #

59995

TCLP Metals:

ARSENIC

< 0.5\*

BARIUM

< 10.

CADMIUM

< 0.1

CHROMIUM

< 0.5

LEAD

< 0.5

MERCURY

10.0005

SELENIUM

0.1\*

SILVER

< 0.5

Analytical Record:

Date Leachate Created 11-12-93

Date Mercury Analyzed 11-17-93

Comments:

\* Preliminary results.

Certification No.: NY 034

Units: mg/L

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



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											
201.17.06		BUDS 41-1, 41-2, 41A + 40A ADDITIONAL SAMPLING (BUIG 41A RED LEAD PIT COVER SAMPLING)																	
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE													
						SOLID	WPE	WATER											
41A-1-F 31	(CONCRETE)	11-11-93	1430		X	X				1	X								
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)								
<i>Jim Jarsitt</i>		11-11-93 1430					<i>Jim Jarsitt</i>		11-11-93 1500										
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										
				<i>[Signature]</i>			11/11/93		DELIVERED TO 896 PITSPFIELD										





BLASLAND & BOUCK ENGINEERS, P.C.

(REQUEST FOR SAMPLING)

TO: Files

DATE: November 22, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41A-1 Red Lead Pit Wall & Floor  
Sampling) - (Post Scarifying-approx 1/16")

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-15-93

LOCATION: Bldg 41A-1 (Red Lead Pit)

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

TEM DESCRIPTION:

1.) Concrete Floor

2.) Concrete Walls (one end wall and one side wall)

PURPOSE: To collect samples for GE of the concrete floor and concrete walls (one end wall and one side wall) located in the Bldg 41A-1 Red Lead Pit.

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

1.) One (1) discrete-core (one centimeter core) sample from the concrete floor of the Bldg 41A-1 Red Lead Pit is to be collected and analyzed for PCBs (Method 8080) and TCLP (Metals Only - Method 1311) after Clean Berkshires Inc. (CBI) scarifies it (approx 1/16").

2.) Two (2) discrete-cores (one centimeter core) samples from the concrete walls (one end wall and one side wall) of the Bldg 41A-1 Red Lead Pit are to be collected and analyzed for PCBs (Method 8080) and TCLP (Metals Only - Method 1311) after CBI scarifies it (approx 1/16").

3.) G.E. requests that the samples collected be analyzed at the Syracuse, NY OBG Laboratory.

jjh

DELIVERED TO  
GRANT BOWMAN (GE)  
11-24-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41A-1 Red Lead Pit Wall & Floor  
Sampling) - (Post Scarifying-approx 1/16")

Date: November 22, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-16-93 on the concrete floor and concrete walls (one end wall and one side wall) located in the Bldg 41A-1 Red Lead Pit.

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

- One (1) discrete-core (one centimeter core) sample of the concrete floor of the Bldg 41A-1 Red Lead Pit was collected and analyzed for PCBs (Method 8080) and TCLP (Metals Only - Method 1311) after Clean Berkshires Inc. (CBI) scarified it approx 1/16".

Two (2) discrete-cores (one centimeter core) samples from the concrete walls (one end wall and one side wall) of the Bldg 41A-1 Red Lead Pit were collected and analyzed for PCBs (Method 8080) and TCLP (Metals Only - Method 1311) after CBI scarified it approx 1/16".

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 (Attachment 1) have also been included.

jjh

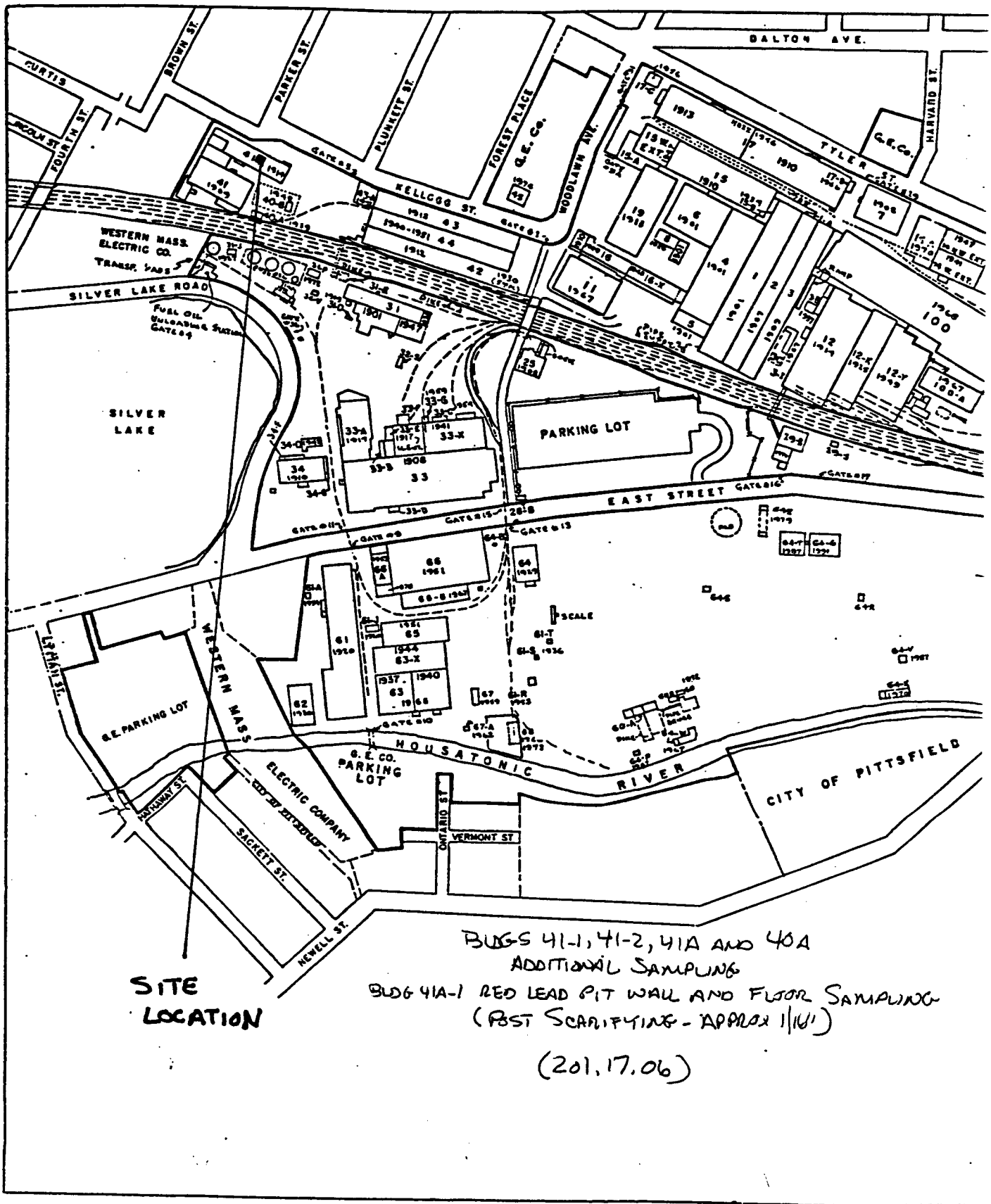
Bldgs 41-1, 41-2, 41A and 40A  
Additional Sampling  
Bldg 41A-1 Red Lead Pit Wall & Floor Sampling  
(Post Scarifying - approx 1/16")

Table 1

LAB ID	DATE SAMPLED	PCBs METHOD 8080	TCLP METALS ONLY METHOD 1311	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41A-1-RLP-D1	11-16-93	<1.	SEE OBG LAB REPORT	36	CONCRETE WALL	DISCRETE-CORE (ONE CENTIMETER)	(0-1 cm)	2
41A-1-RLP-D2	11-16-93	<1.	SEE OBG LAB REPORT	37	CONCRETE WALL	DISCRETE-CORE (ONE CENTIMETER)	(0-1 cm)	2
41A-1-RLP-F1	11-16-93	<1.	SEE OBG LAB REPORT	38	CONCRETE FLOOR	DISCRETE-CORE (ONE CENTIMETER)	(0-1 cm)	2

jhh

FIGURE 1



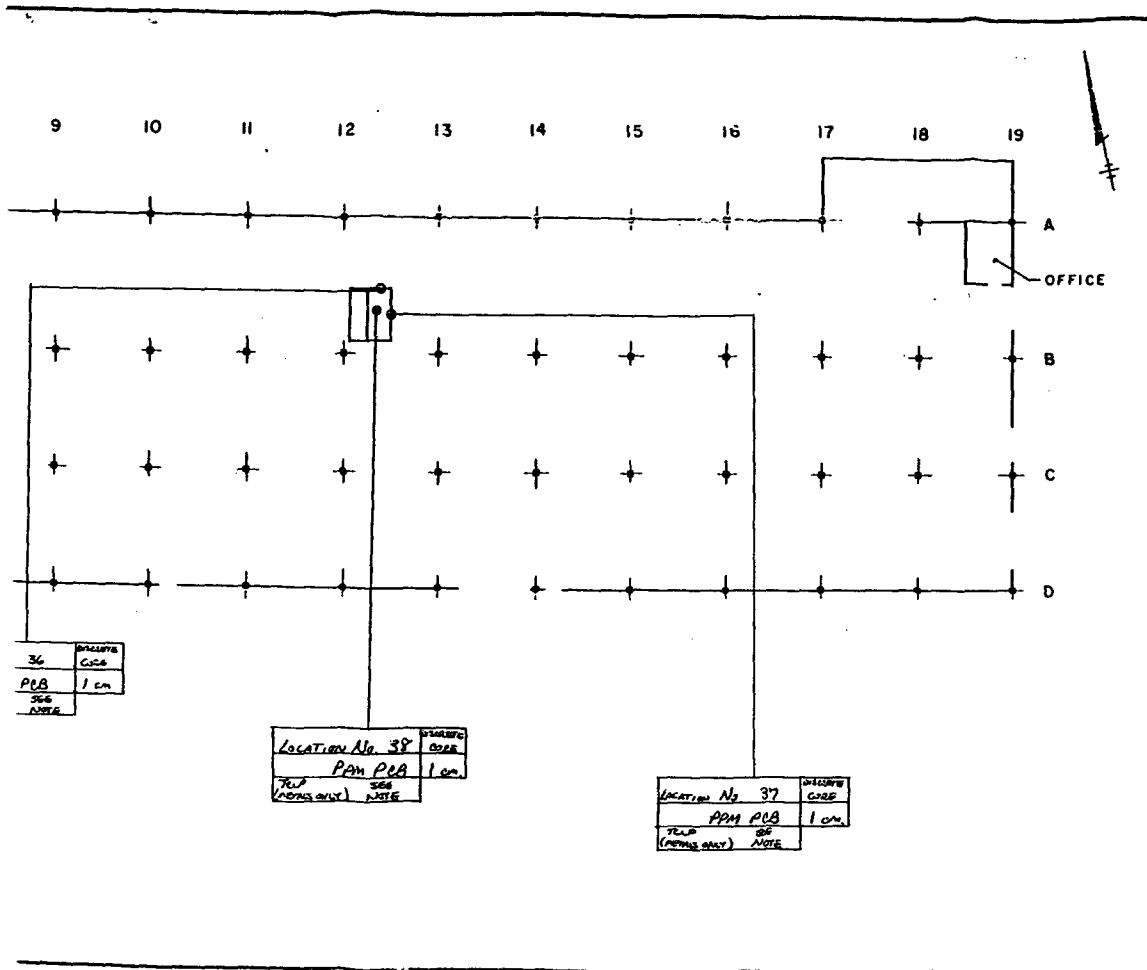
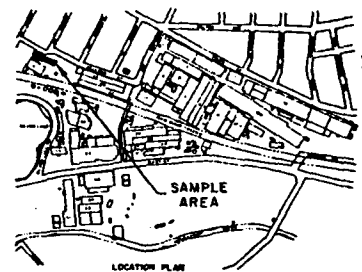


FIGURE 2



BUILDINGS 41-1, 41-2, 41A AND 40A  
 ADDITIONAL SAMPLING  
 (BLDG 41A-1 RED LEAD PIT WALL  
 AND FLOOR SAMPLING) - (POST  
 SCALFYING - APPROX 1/6")  
 (20.17.06)

LEGEND

- - CONCRETE FLOOR SAMPLE LOCATION (DIAMETER 0.88" - 1 CM)
- - BRICKWORK WALL SAMPLE LOCATION (DIAMETER 0.88" - 1 CM)
- ▭ - RED LEAD PIT (POST SCALFYING - APPROX 1/6")

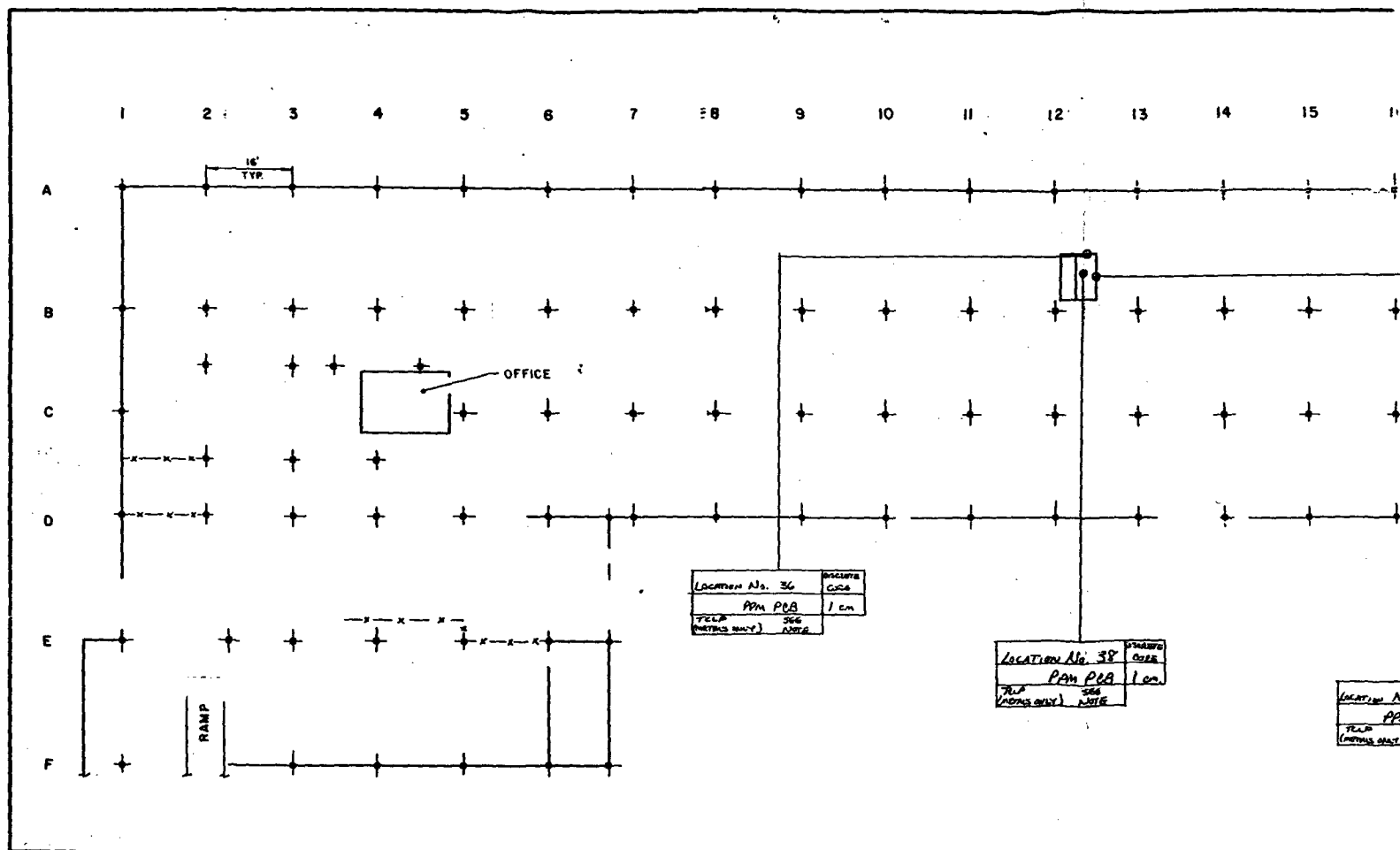
GENERAL NOTES:

FOR LAB RESULTS NOT FOUND ON MAP  
 SEE OSG LAB REPORTS

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

(X-2)

BUILDING 41A - FIRST FLOOR



Location No. 36	INSURANCE
PPM P&B	1 CM
FIELD (MATERIALS UNIT)	NOTE

Location No. 38	INSURANCE
PPM P&B	1 CM
FIELD (MATERIALS UNIT)	NOTE

Location No.	INSURANCE
PPM	1 CM
FIELD (MATERIALS UNIT)	NOTE

**ATTACHMENT 1**



PRELIMINARY

NOV 23 1993

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, PC JOB NO. 2887.026.517

DESCRIPTION PITTSFIELD, MA. BLDGS 4-1, 4-2, 41A & 40A SAMPLING

B & B # 201.17.06

MATRIX: SOLID

Date analyzed: 11/19/93 DATE COLLECTED 11/16/93 DATE RECEIVED 11/17/93

Description

Sample #

PCB

~~AYB/AY~~

PCTS

41-1-RLP - D1

T0148

~~AYB~~

<1.

94

-D2

T0149

~~AYB~~

<1.

94

-D3

(F1)

T0150

~~AYB~~

<1.

92

(SOL)

(SOL)

Comments:

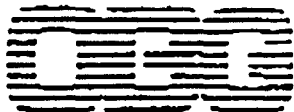
Certification No.: NY 034

Units: mg/kg dry weight

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_





LABORATORIES, INC.

# Laboratory Report

CLIENT Blasland & Bouck Engineers, P.C JOB NO. 2897-026-517

DESCRIPTION Pittsfield, MA

Toxicity Characteristic Leaching Procedure MATRIX: Concrete

DATE COLLECTED 11-16-93 DATE RECEIVED 11-17-93

Description	41A-1 RLP-D1	41A-1 RLP-D2	41A-1 RLP-F1
Sample #	T0151	T0152	T0153
TCLP Metals:			
ARSENIC	0.6 *	0.5 *	<0.5 *
BARIUM	<10.	<10.	<10.
CADMIUM	<0.1	<0.1	<0.1
CHROMIUM	<0.5	<0.5	<0.5
LEAD	1.8	1.7	0.8
MERCURY	<0.0005	<0.0005	<0.0005
SELENIUM	0.3 *	0.3 *	0.3 *
SILVER	<0.5	<0.5	<0.5

**PRELIMINARY**  
 NOV 24 1993

Analytical Record:  
 Date Leachate Created 11-17-93  
 Date Mercury Analyzed 11-17-93

Comments:  
 \* Preliminary results.

Certification No.: NY034  
 Units: mg/L (ppm)



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

TO: Files

DATE: December 28, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldg 41A-1 Red Lead Area Steam  
Cleaning(Water\Sludge) Drum Sampling  
(Drum #32090)

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-22-93

LOCATION: Bldg 12-1 Short Term Storage (STS)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Liquid

PURPOSE: To collect samples for GE to determine the proper disposal method for the Water and Red Lead Sludge that was generated during the steam cleaning of the red lead area located in Bldg 41A-1, and placed into GE Drum #'s (see attached letter from Aimee Cole (GE) to Bruce Eulian dated 11-16-93). These drums are located in Bldg 12-1 STS.

NOTES: The following sampling program was implementated at the request of Jeff Ruebesam (GE), (see attached sample request letter dated 11-16-93).

1.) One (1) discrete-grab sample of the Water and Red Lead Sludge in one of the following GE Drum #,s 32089,32090,32081 and 32093 from Bldg 41A-1 is to be collected and analyzed for PCB's(Method 8080),TCLP (Metals Only-Method 1311) and Profile Approval (pending Analytical Results).

2.) GE requests that the PCB and TCLP sample collected be analyzed at the Syracuse,N.Y. OBG Laboratory, and the sample for Profile Approval be relinquished to Joe Bujak (Zorex Inc.) for transportation to Clean Harbors,Inc. of Albany,N.Y.

November 16, 1993

To: B. Eulian - B & B

From: A. Cole - GEC 

Re: 40's demolition waste

Please take representative samples of the material in one of the drums below located in 12 STS. These are drums of water and red lead sludge generated from the steam cleaning of the red lead area in bldg. 41.

Take one sample for PCB method 8080 analysis and one for TCLP method 1311 metals only. The samples may be sent to O'Brien and Gere for analysis.

Also, please take a 1 quart sample of this material and hold it for profile approval pending the results of the analytical. This sampling should be charged to the bldg. 41 demolition project.

ORANGE ID #

32089  
32090  
32081  
32093

BLDG 41 A

DELIVERED TO  
GRANT BOWMAN (GE)  
12-30-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg 41A-1 Red Lead Area Steam  
Cleaning (Water\Sludge) Drum Sampling  
(Drum #32090)

Date: December 29, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-22-93 on the Water and Red Lead Sludge that was generated during the steam cleaning of the red lead area in Bldg 41A-1 and placed into GE Drum #,s 32089,32090, 32081 and 32093). The drums are located in Bldg 12-1 Short Term Storage Area (STS) .

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

GE Drum #32090 was sampled on a discrete-grab sample basis for PCB's (Method 8080), TCLP (Metals Only-Method 1311) and Profile Approval (pending Analytical Results). Three (3) one quart glass containers were collected.

Note: The sample collected for Profile Approval was relinquished to Joe Bujak (Zorex Inc.) for transportation to Clean Harbors, Inc. of Albany, N.Y. 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 location (Figure 2). Analytical reports provided by OBG Laboratories for the PCB and TCLP analysis (Attachment 1) have also been included. One (1) quart glass container was collected for Profile Approval, therefore no analytical will be provided.

agp

Bldg's 41-1,41-2,41A & 40A  
Additional Sampling

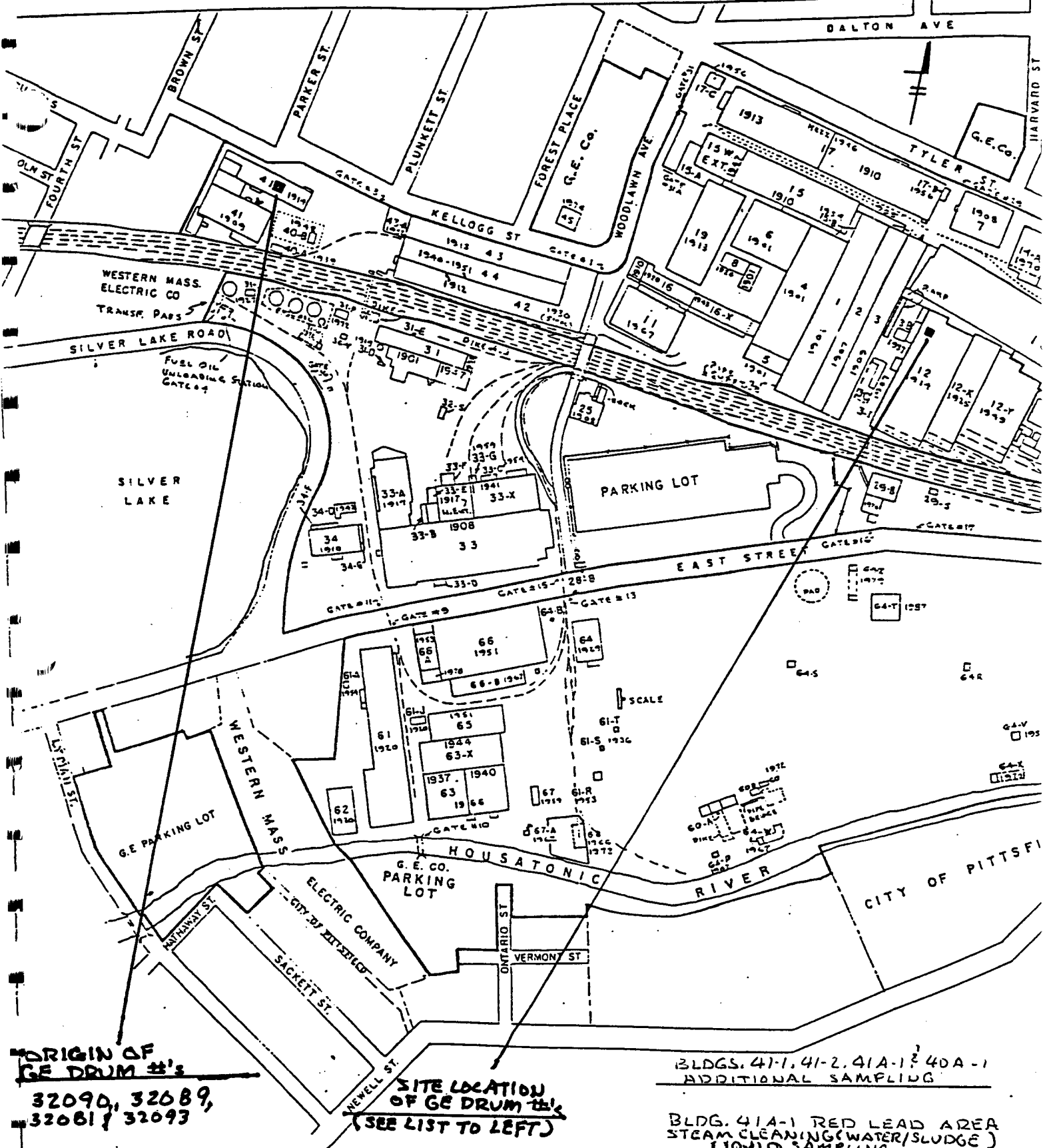
(Bldg 41A-1 Red Lead Area Steam)  
Cleaning (Water/Sludge) Liquid Sampling  
(Drum #32090)  
201.17.06

Table 1

LAB ID	DATE SAMPLED	PCB METHOD 8080 PPM	SAMPLE LOCATION GE DRUM #	TCLP METALS ONLY METHOD 1311	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41A-1-RLA-32090-L1	11-22-93	40	32090	SEE OBG LAB REPORT	LIQUID	DISCRETE-GRAB	0"-28"	2

TE: A one quart glass container was also collected and is being held for Profile Approval pending analytical results.

agp



ORIGIN OF  
GE DRUM #'s  
32090, 32089,  
32081, 32093

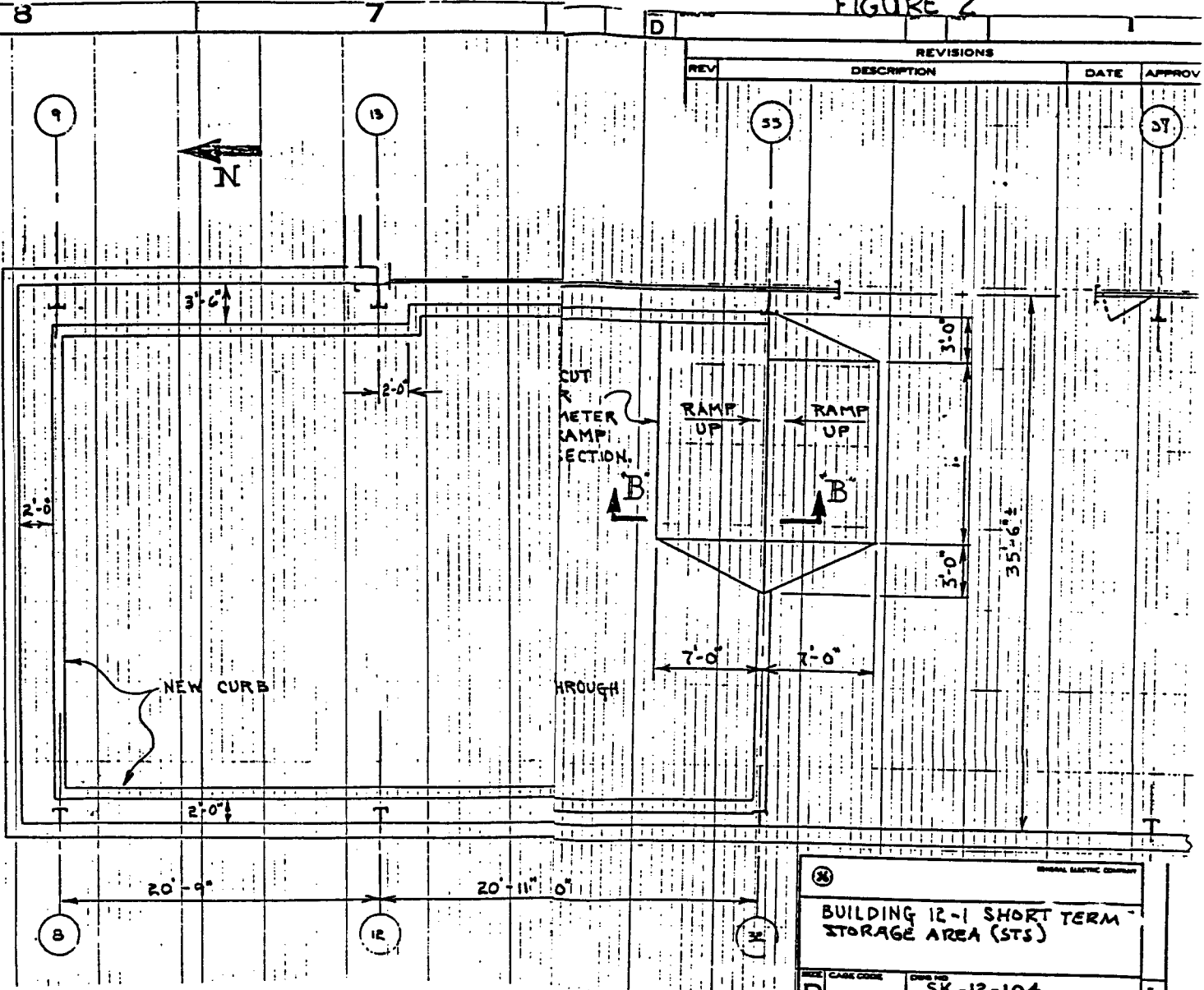
SITE LOCATION  
OF GE DRUM #'s  
(SEE LIST TO LEFT)

BLDGS. 41-1, 41-2, 41A-1, 40A-1  
ADDITIONAL SAMPLING

BLDG. 41A-1 RED LEAD AREA  
STEAM CLEANING (WATER/SLUDGE)  
LIQUID SAMPLING  
(DRUM # 32090)

201.17.06

FIGURE 2



BLDG. 41-1, 41-2, 41A-1 & 40A-1 ADDITIONAL SAMPLING  
 BLDG. 41A-1 RED LEAD  
 AREA STEAM CLEANING (WATER/SLUDGE)  
 LIQUID SAMPLING  
 (DRUM # 32090)

201.17.06



ATTACHMENT 1





# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517  
 DESCRIPTION Pittsfield, MA B & B #201.17.06  
Bldg. 41-A-1 Red Lead Area(Steam Cleaning)Drum #32090 Sampling MATRIX: Water  
 Toxicity Characteristic \_\_\_\_\_ DATE COLLECTED 11-22-93 DATE RECEIVED 11-23-93

### Leaching Procedure

Description:	41A-1-RLA-32090-L1			
Sample #	T0432			
<b>TCLP Metals:</b>				
ARSENIC	<0.5			
BARIUM	<10.			
CADMIUM	<0.1			
CHROMIUM	<0.5			
LEAD	0.9			
MERCURY	<0.0005			
SELENIUM	<0.1			
SILVER	<0.5			
<b>Analytical Record:</b>				
Date Leachate Created	11-23-93			
Date Mercury Analyzed	11-24-93			

Comments:

Certification No.: NY034

Units: mg/l

Authorized: *Antly Curran*

Date: December 22, 1993





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

TO: Files

DATE: 12-28-93

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldg.41A-1 Red Lead Sludge  
& Residue Drum Sampling  
(For Profile Approval Only)  
Drum #43479

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-22-93

BLDG. LOCATION: Bldg 12-1 Short Term Storage (STS)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Red Lead Sludge  
and Residue

PURPOSE: To collect a sample for GE to determine the proper disposal method for the Red Lead Sludge and Residue that was placed into GE drum #'s 43418,43463,43464,43465,43466,43467,43469,43470,43471,43472,43479 and 43480 (see attached letter from Aimee Cole (GE) to Bruce Eulian dated 11-01-93). These drums are located in Bldg 12-1 STS.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE), (see attached sampling request letter dated 11-01-93).

1.) One (1) discrete-grab sample of the Red Lead Sludge and Residue located in one of the following GE drum #'s 43418,43463,43464,43465,43466,43467,43469,43470,43471,43472,43479 and 43480 (see attached sampling request dated 11-01-93) is to be collected for Profile Approval only.

2.) GE requests that the sample collected be relinquished to Joe Bujak (Zorex Inc.) for transportation to Clean Harbors Inc. of Albany,N.Y.

agp

November 1, 1993

To: B. Eulian B&B

From: A. Cole - GEC *AE*

Re: 40's Demolition Sampling - Profile Approval

Please take a one quart sample from one of the following drums for profile approval. Please incorporate the profile # in the sample ID. The drums are located in bldg. 12 STS.

<u>Orange ID #</u>	<u>Profile #</u>	<u>Material</u>	<u>Location</u>
43418	T07681	Red Lead Sludge	Bldg. 12 STS
43463		and residue	
43464			
43465			
43466			
43467			
43469			
43470			
43471			
43472			
43479			
43480			

The sample may be delivered to J. Bujak.

BLDG. 41A

DELIVERED TO  
GRANT BOWMAN (GE)  
12-30-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg 41A-1 Red Lead Sludge  
& Residue Drum Sampling  
(For Profile Approval Only)  
(Drum #43479)

Date: December 28, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam(GE)

The following is a summary of the sampling program conducted on 11-22-93 on the Red Lead Sludge and residue that was placed into GE drum #s43418,43463, 43464,43465,43466,43467,43469,43470,43471,43472,43479 and 43480 that was generated during the cleaning of the Red Lead Pit area in Bldg 41A. The drums are located in Bldg 12-1 Short Term Storage Area (STS).

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

GE Drum #43479 was sampled on a discrete-grab sample basis for Profile Approval only, one (1) one quart glass container was collected.

Note: The sample was collected using a 2" O.D. Lexan tube. The sample was relinquished to Joe Bujak (Zorex Inc.) for transportation to Clean Harbors Inc. of Albany, N.Y.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site locations (Figure 1) and sample location (Figure 2). Sampling was performed for Profile Approval only, therefore, no analytical report will be provided .

agp



Bldg's 41-1,41-2,41A & 40A  
Additional Sampling

Bldg 41A-1 Demo Sampling  
(For Profile Approval Only)  
Drum #43479  
201.17.06

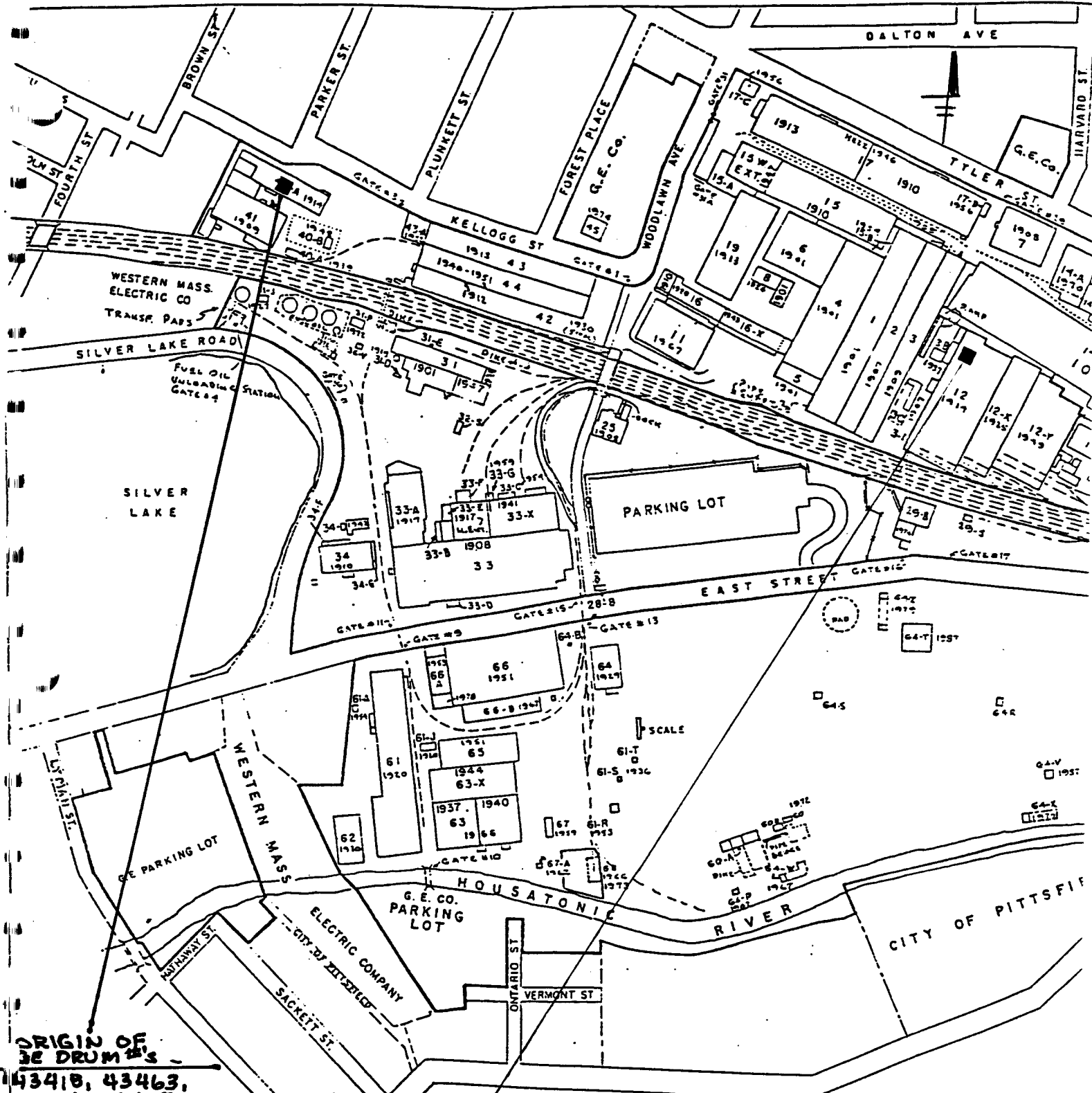
Table 1

LAB ID	DATE SAMPLED	SAMPLE LOCATION GE DRUM #	PROFILE NUMBER	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41A-1-T07681-C1	11-22-93	43479	T07681	RED LEAD SLUDGE & RESIDUE	DISCRETE-GRAB	0"-30"	2

Note: This sample was collected for Profile Approval, therefore, no analytical results will be provided.

agp

FIGURE 1



ORIGIN OF  
3E DRUM #'s  
43418, 43463,  
43464, 43465,  
43466, 43467,  
43469, 43470,  
43471, 43472,  
43479, 43480

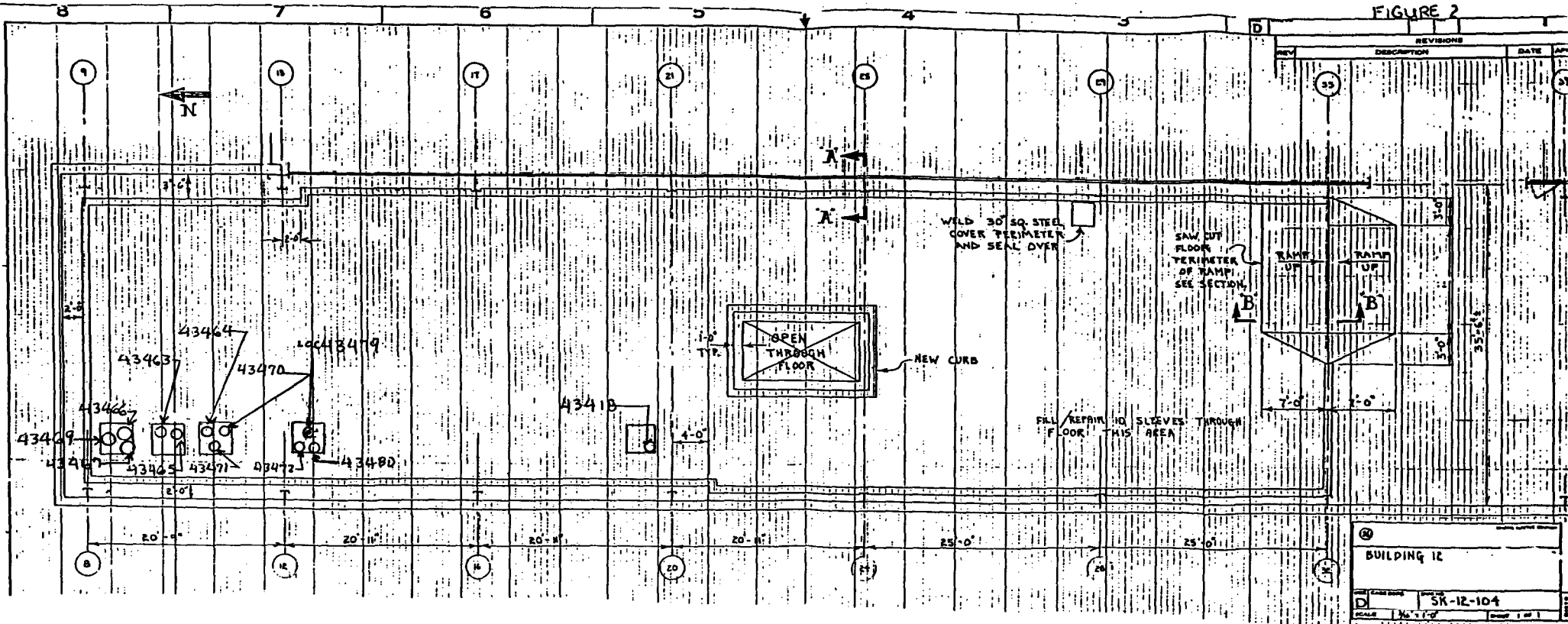
SITE LOCATION  
OF GE DRUM #'s  
(SEE LIST TO LEFT)

BLDGS. 41-1, 41-2, 41A-1 & 40A-1  
ADDITIONAL SAMPLING

BLDG. 41A-1 DEMO SAMPLING  
(FOR PROFILE APPROVAL ONLY)  
DRUM# 43479

201.17.06

FIGURE 2



REVISIONS		DATE	APP
30			

BUILDING 12	
PROJECT NUMBER	SK-12-104
SCALE	1/4" = 1'-0"
SHEET 1 OF 1	

- LEGEND**  
 (NOT TO SCALE)
- - PALLET
  - - 55 GALLON DRUM
  - 43469 - GE 55 GALLON DRUM NUMBER
  - - SAMPLE LOCATION

BLDG. 41A-1 DEMO SAMPLING  
 (FOR PROFILE APPROVAL ONLY)  
 201.17.06



APPENDIX J, SECTION C-8

**BLASLAND & BOUCK ENGINEERS, P.C.**

**(REQUEST FOR SAMPLING)**

**TO: Files**

**DATE: November 30, 1993**

**FROM: Bruce Eulian**

**FILE NO: 201.17.06**

**RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41-1 Galvanizing Pit Soil Sampling)**

**INITIATOR: Jeff Ruebesam (GE)**

**DATE: 10-29-93**

**LOCATION: Bldg 41-1**

**CONTACT PERSON: Jeff Ruebesam (GE)**

**EXT: 3728**

**ITEM DESCRIPTION:**

**1.) Soil**

**PURPOSE: To collect in-situ soil samples (0-1' and 1-2') for GE to determine the proper disposal method of the soil located in the Bldg 41-1 Galvanizing Pit.**

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

**1.) Two (2) discrete-grab samples of the in-situ soil (0-1') are to be collected and analyzed for PCB's (Method 8080), Total Zinc and TCLP (Metals Only - Method 1311).**

**2.) Two (2) discrete-grab samples of the in-situ soil (1-2') are to be collected and held for analysis per Jeff Ruebesam (GE).**

**3.) G.E. requests that the PCB samples collected be analyzed at the Pittsfield OBG Laboratory, the Total Zinc samples collected be analyzed at the Pittsfield GE Laboratory and the TCLP (Metals Only) samples collected be analyzed at the Syracuse, NY OBG Laboratory.**

**Note: Per Jeff Ruebesam (GE) the two (2) discrete-grab samples of the in-situ soil (1-2') were analyzed for Total Zinc.**

**jjh**

DELIVERED TO  
GRANT BOULMAN  
12-1-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Bldg 41-1 Galvanizing Pit Soil Sampling)

Date: November 30, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-13-93 on the in-situ soil in the Bldg 41-1 Galvanizing Pit.

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

- Two (2) discrete-grab samples of the in-situ soil (0-1') were collected and analyzed for PCB's (Method 8080), Total Zinc and TCLP (Metals Only - Method 1311).

- Two (2) discrete-grab samples of the in-situ soil (1-2') were collected and held for analysis per Jeff Ruebesam (GE).

Note: Per Jeff Ruebesam (GE) the two (2) discrete-grab samples of the in-situ soil (1-2') were analyzed for Total Zinc.

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 and an analytical report provided by the Pittsfield GE Laboratory (Attachment 1) have also been included.

Bldgs 41-1, 41-2, 41A and 40A  
 Additional Sampling  
 (Bldg 41-1 Galvanizing Pit Soil Sampling)

Table 1

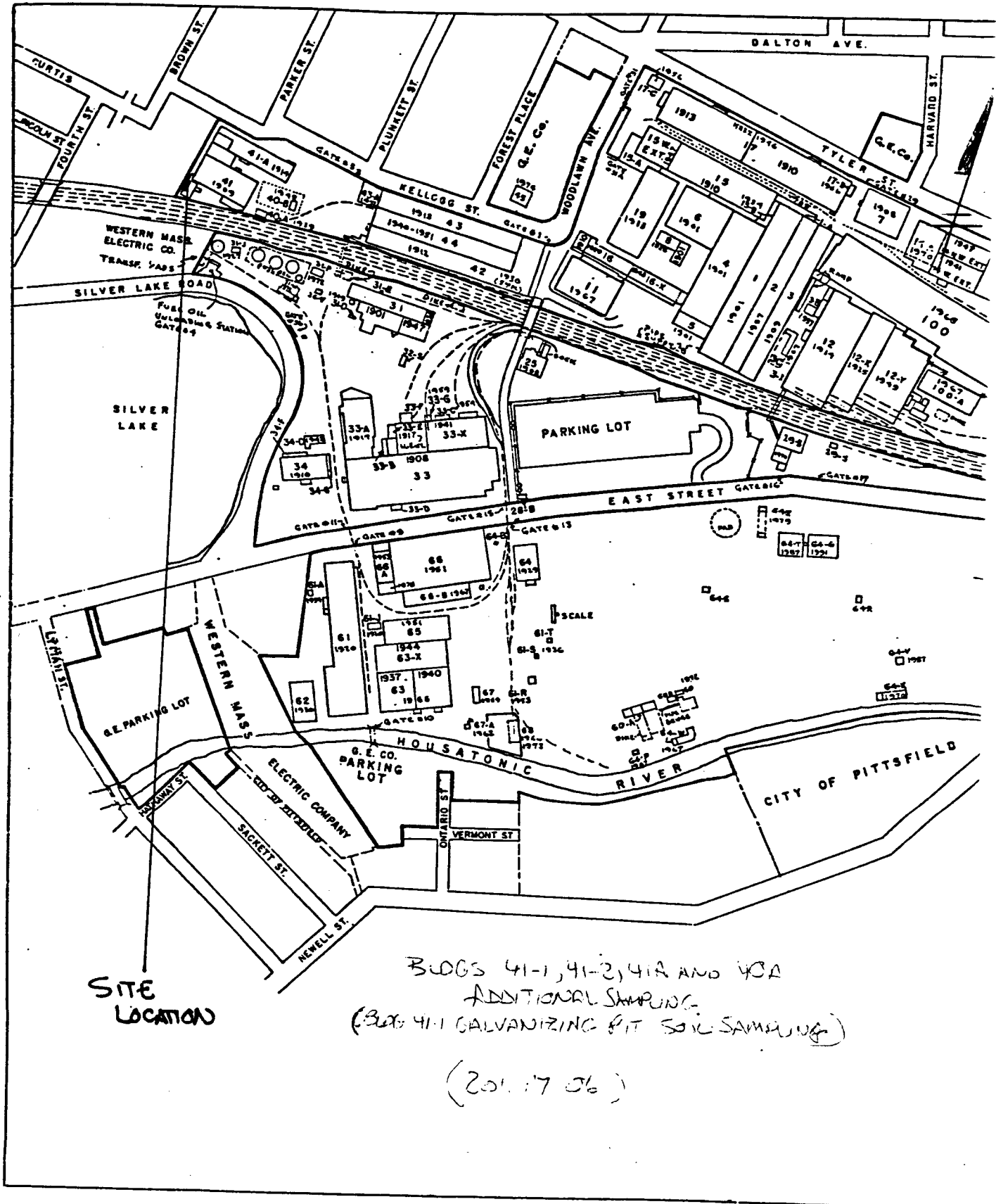
LAB ID	DATE SAMPLED	PCBs METHOD 8080 (PPM)	TOTAL ZINC	TCLP METALS ONLY METHOD 1311	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41-1-GP-C18-0-1	11-13-93	3.3	SEE GE LAB REPORT	SEE OBG LAB REPORT	59	IN-SITU SOIL	DISCRETE-GRAB	(0-1')	2
41-1-GP-C18-1-2	11-13-93	SEE NOTE 1	SEE GE LAB REPORT	SEE NOTE 1	59	IN-SITU SOIL	DISCRETE-GRAB	(1-2')	2
41-1-GP-C19-0-1	11-13-93	2.1	SEE GE LAB REPORT	SEE OBG LAB REPORT	60	IN-SITU SOIL	DISCRETE-GRAB	(0-1')	2
41-1-GP-C19-1-2	11-13-93	SEE NOTE 1	SEE GE LAB REPORT	SEE NOTE 1	60	IN-SITU SOIL	DISCRETE-GRAB	(1-2')	2

NOTE 1: PER JEFF RUEBESAM (GE), TOTAL ZINC WAS THE ONLY ANALYSIS PERFORMED ON THESE SAMPLES. THE PCB AND TCLP ANALYSES WERE HELD.

jjh



FIGURE 1

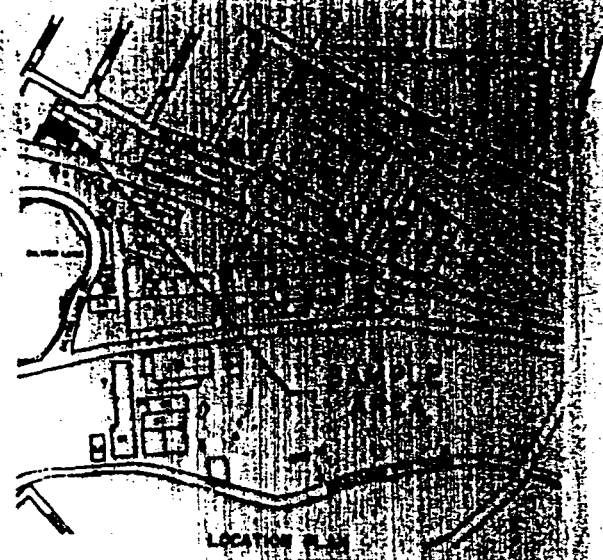
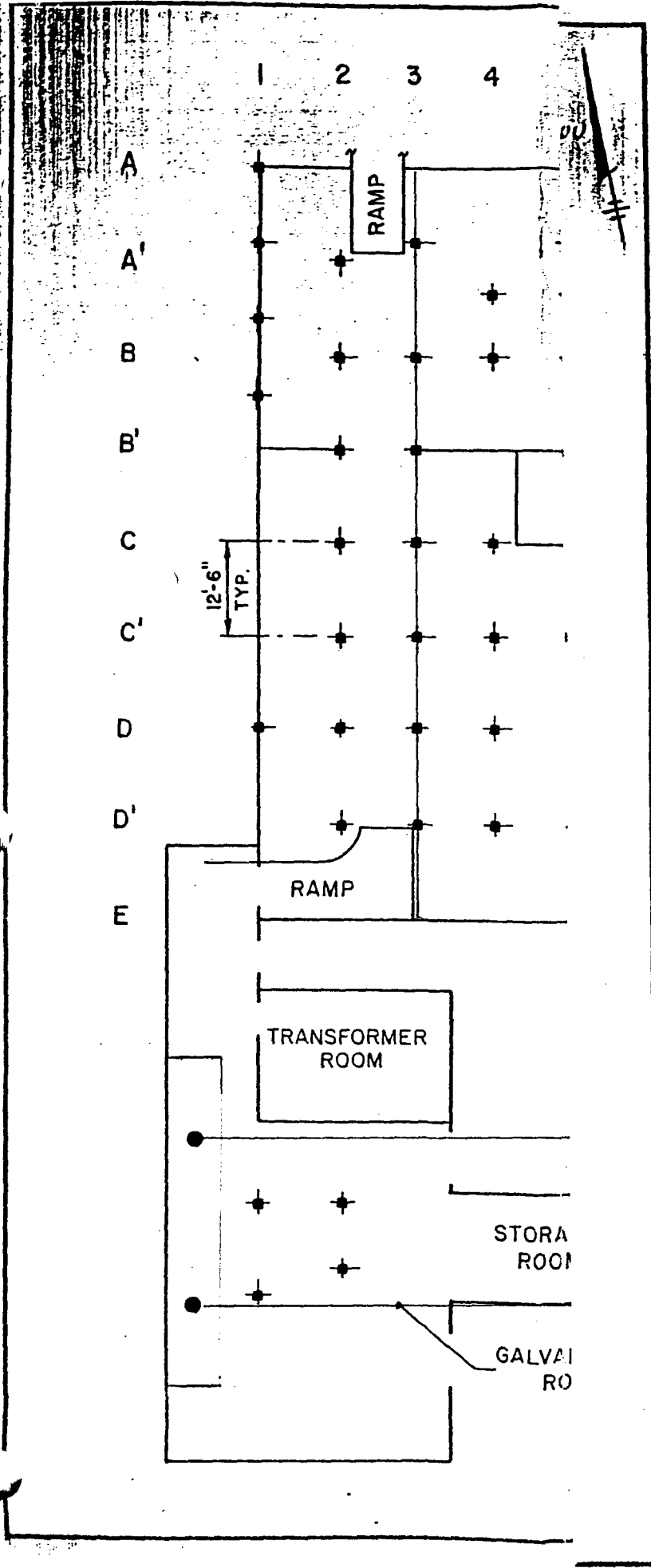


SITE LOCATION

BLOCKS 41-1, 41-2, 41A AND 40A  
ADDITIONAL SAMPLING  
(BLOCK 41-1 GALVANIZING PIT SOIL SAMPLING)

(201.17.06)

FIGURE 2



BOYS 41-1, 41-2, 41A and 41B  
 ADDITIONAL SAMPLES  
 (BUDG 41A GALVANIZING AT 200' DISTANCE)  
 (231.17.90)

LEGEND

● - IN-SITU DATA LOCATION

GENERAL NOTES

FOR RESULTS NOT FOUND ON PLAN  
 SEE EITHER PITTSFIELD OR LINDSEY  
 OR SYDNEY OSC LAB REPORTS

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

XX-6

BUILDING 41 - FIRST FLOOR



**ATTACHMENT 1**



E N V I R O N M E N T A L     L A B O R A T O R Y

\*\*\*\* TEST REPORT \*\*\*\*

SUBJECT: FOUR BLDG. 41-1 GALVANIZING PIT SOILS  
REQUESTOR: J.G. RUEBESAM  
TEST(S) BY G.J. DESNOYERS, 11-331, C23, x4351  
REPORT BY G.J. DESNOYERS, 11-331, C23, x4351  
BOOK 9004, PAGE(S) 179

OBJECT:  
DETERMINE TOTAL ZINC IN FOUR SOIL SAMPLES.

SAMPLE ID:  
SOIL SAMPLES TAKEN 11/13/93 (CHAIN OF CUSTODY ATTACHED).  
1 41-1-GP-C18-0-1 BLDG. 41 SOIL TAKEN AT 0 TO 1 FT., 10:15 AM  
2 41-1-GP-C18-1-2 BLDG. 41 SOIL TAKEN AT 1 TO 2 FT., 10:30 AM  
3 41-1-GP-C19-0-1 BLDG. 41 SOIL TAKEN AT 0 TO 1 FT., 10:45 AM  
4 41-1-GP-C19-1-2 BLDG. 41 SOIL TAKEN AT 1 TO 2 FT., 11:00 AM

METHODS:  
NITRIC ACID DIGESTION FOLLOWED BY INDUCTIVELY COUPLED ARGON  
PLASMA SPECTROMETRY.

RESULTS:

Sample ID	mg Zn/Kg Dried Soil (Dried at 104 °C)	mg Zn/Kg Damp Soil (Soil as received)	% Weight Loss at 104 °C
1 C18-0-1	534	445	16.7
2 C18-1-2	479	418	12.7
3 C19-0-1	165	150	8.91
4 C19-1-2	166	150	9.70

DISTRIBUTION:  
J.G. RUEBESAM, G56;  
G.J. DESNOYERS, C23;  
W.A. FESSLER, C23.



LABORATORIES, INC.

To: Bruce E. Lina  
Co: 878 Job #: 2887.026521  
Fax#: 413-494-2041  
Pages: 5 From: A. Crescenzi  
OBG LABS (315) 437-0200/463-7554 Fax

# Laboratory Report

CLIENT Blasland + Bouck Engineers, P.C. JOB NO. 2887.26.517  
DESCRIPTION Bldg. 41-1 Galvanizing Pit Soil Sampling  
Toxicity Characteristic Leaching Procedure MATRIX: Solid  
DATE COLLECTED 11-13-93 DATE RECEIVED 11-16-93

Description

Sample #

TCLP Metals:

ARSENIC

BARIUM

CADMIUM

CHROMIUM

LEAD

MERCURY

SELENIUM

SILVER

41-16P-618  
0-1

41-16P-619  
0-1

T0088

T0100

<0.5\*

<0.5\*

<10.

<10.

<0.1

<0.1

<0.5

<0.5

<0.5

<0.5

40.0005

40.0005

<0.1\*

<0.1\*

<0.5

<0.5

PRELIMINARY  
NOV 22 1993  
JN

PRELIMINARY  
NOV 24 1993

Analytical Record:

Date Leachate Created 11-17-93

Date Mercury Analyzed 11-24-93

Comments:

\* Preliminary results.

Certification No.: ~~16~~ N4034

Units: mg/L (ppm)

Company

NY 13221 / (315) 437-0200

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



**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	PCBS METHOD 8082					REMARKS
201-17-06		BLDG 41-1 GALVANIZING PIT SOIL SAMPLING													
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE									
						SOLID	WIPE	WATER							
41-1-GP-C18-0-1		11/13/93	1015		X	X			1	X					
41-1-GP-C18-0-2		11/13/93	1030		X	X			1	X	HOLD FOR ANALYSIS PER JEFF RUEBESAM				HOLD 1'-2' SAMPLES FOR ANALYSIS PER JEFF RUEBESAM (GE)
41-1-GP-C19-0-1		11/13/93	1045		X	X			1	X					
41-1-GP-C19-1-2		11/15/93	1100		X	X			1	X	HOLD FOR ANALYSIS PER JEFF RUEBESAM				
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			
<i>Bruce Polian</i>		11/15/93 9:30						<i>Carol H. ...</i>		11/15/93 10:15					
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					
				<i>L. ...</i>				11/15/93 10:05		DELIVERED TO PITTSFIELD O&H LAB					



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

93032

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME						NO. OF CONTAINERS	TOTAL ZINC					REMARKS
201-17-06		BLDG 41-1 GALVANIZING PIT SOILSAMPLING												
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SOLID	WIPE							
41-1-GP-C18-01		11-13-93	10:15		X	X			1	X				
41-1-GP-C18-12		11-13-93	10:30		X	X			1	X	HOLD FOR ANALYSIS PER JEFF RUEBESAM			HOLD 1-2 SAMPLES FOR ANALYSIS PER JEFF RUEBESAM (GEI)
41-1-GP-C19-01		11-13-93	10:45		X	X			1	X				
41-1-GP-C19-12		11-13-93	11:00		X	X			1	X	HOLD FOR ANALYSIS PER JEFF RUEBESAM			
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)		
<i>James Eulin</i>		11-15-93 9:15					<i>James Eulin</i>			11-15-93 10:00				
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					
				<i>J. Desnoyers</i>			11/15/93 10:00 AM		DELIVERED TO PITTSFIELD GE LAB					





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

TO: Files

DATE: November 24, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 41-1 Concrete floor Sampling  
(Outside Galvanizing Pit)  
(Post Shotblast)

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-3-93

LOCATION: Bldg 41-1

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Concrete

PURPOSE: To collect samples for GE to determine the proper disposal method of the concrete floor outside of the galvanizing pit located in Bldg 41-1.

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

1.) Two (2) discrete-core (one centimeter core) samples of the concrete floor in Bldg.41-1 located outside of the galvanizing pit is to be sampled and analyzed for TCLP Metals and Total Zinc.

2.) GE request the samples collected be analyzed at the Syracuse OBG Laboratory.

ijh

BLASLAND AND BOUCK ENGINEERS P.C.

DELIVERED  
TO GRANT  
BOWMAN (GE)  
11-24-93

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 41-1 Concrete floor sampling  
(Outside Galvanizing Pit)  
(Post Shotblast)

Date: November 24, 1993  
File No: 201.17.06  
cc: Grant Bowman (GE)  
Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-3-93 on the concrete floor (Outside of the galvanizing pit) located in Bldg 41-1.

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

- Two (2) discrete-core (one centimeter core) samples of the concrete floor (Outside of the Galvanizing Pit) were collected and analyzed for TCLP Metals and Total Zinc.

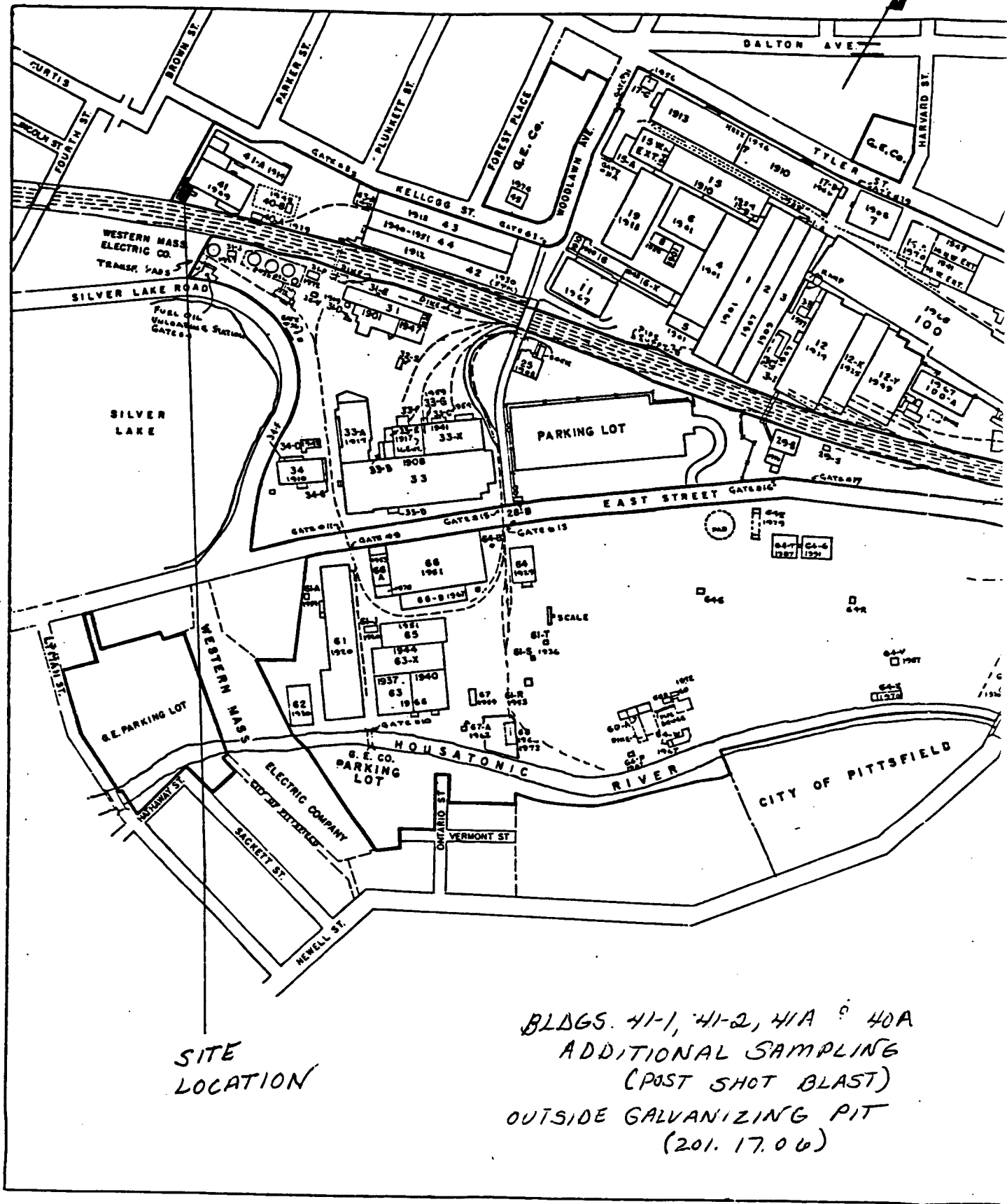
A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). A Preliminary analytical report provided by OBG Laboratories (Attachment 1) has also been included.

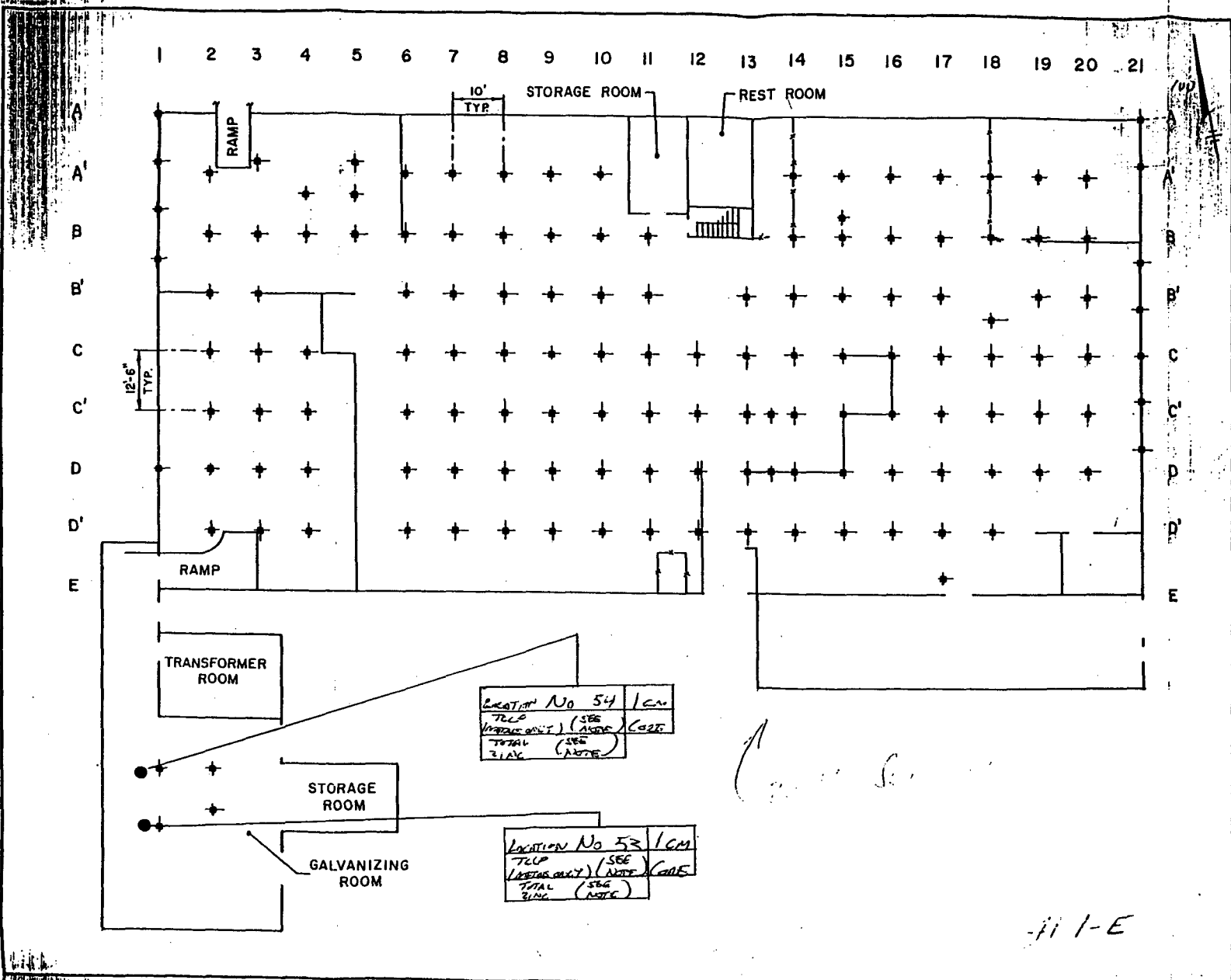
rfh

Bldgs 41-1, 41-2, 41A and 40A  
(Additional Sampling)  
Bldg 41-1 Concrete Floor Sampling  
(Outside of the Galvanizing Pit)  
(Post Shotblast)  
(201.17.06)

Table 1

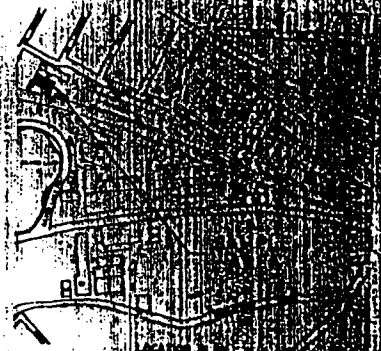
LAB ID	DATE SAMPLED	TCLP METALS	TOTAL ZINC	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41-1-F31	11-3-93	SEE OBG LAB REPORT	SEE OBG LAB REPORT	53	CONCRETE FLOOR	DISCRETE-CORE	(0-1cm)	2
41-1-F32	11-3-93	SEE OBG LAB REPORT	SEE OBG LAB REPORT	54	CONCRETE FLOOR	DISCRETE-CORE	(0-1cm)	2





LOCATION No 54	1CM
TRUP	(SEE NOTE)
LABORATORY	(SEE NOTE)
TOTAL	(SEE NOTE)
ZINC	(SEE NOTE)

LOCATION No 52	1CM
TRUP	(SEE NOTE)
LABORATORY	(SEE NOTE)
TOTAL	(SEE NOTE)
ZINC	(SEE NOTE)



BUDGS 41-1, 41-2, 41-3, 41-4  
 ADDITIONAL SAMPLES  
 BUDG 41-4 CONCRETE FLOOR SAMPLES  
 OUTSIDE GALVANIZING PIT (SEE SHEET 41-5)  
 (22.17.76)

**LEGEND**

- - CONCRETE FLOOR HAMMER TEST LOCATIONS (POST SHOTBLASTING)

GENERAL NOTES:  
 - FOR SAMPLE RESULTS NOT FOUND ON MAP SEE ONLY LAB RESULTS

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

XX-6

BUILDING 41- FIRST FLOOR



41-1-E

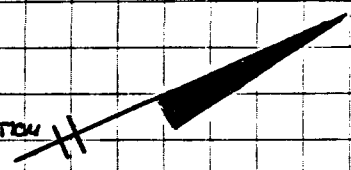
SUBJECT	BLDG. 41-1 CONCRETE FLOOR SAMPLING OUTSIDE GALVANIZING PIT (POST SHOT BLAST)	PROJ. NO.	201. 17. 06	BY	HME	DATE	11-3-93	SHEET	1 of 1
---------	---	-----------	-------------	----	-----	------	---------	-------	--------

Not to Scale

FIGURE 2

Legend

- CONCRETE Floor Sample Location  
(Post SHOT Blast)  
1cm. core sample



GALVANIZING ROOM

GALVANIZING PIT

S3

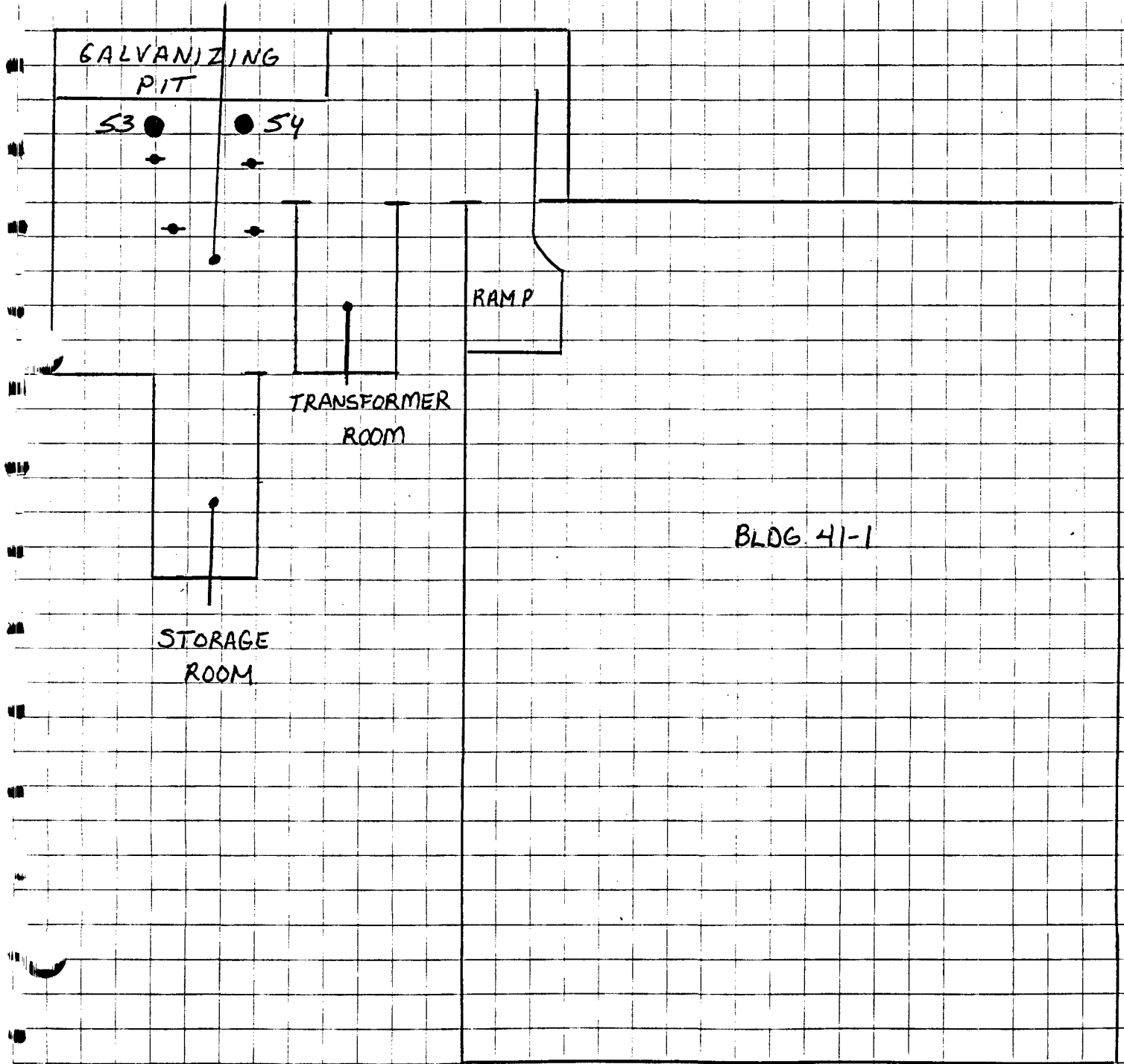
S4

RAMP

TRANSFORMER ROOM

STORAGE ROOM

BLDG. 41-1



**ATTACHMENT 1**



NOV 23 1993

Job No.	Sample	Descrip.	Parameter	Result	Units	Wt	Matrix	Date	Analy	Instr	QC Batch
2887.26.517	S9609	41-1-F31	TCLP Arsenic	<.5	mg/L		Leachate	Nov-16	TJA		111093W1
			TCLP Barium	<10.	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Cadmium	<.1	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Chromium	<.5	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Lead	<.5	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Mercury	<.0005	mg/L		Leachate	Nov-12	PE-3100		1111932
			TCLP Selenium	<.1	mg/L		Leachate	Nov-16	TJA		111093W1
			TCLP Silver	<.5	mg/L		Leachate	Nov-11	ICAP		111093W1
			Zinc	2000.	mg/Kg	*	Solid	Nov-11	ICAP		110993S2
2887.26.517	S9610	41-1-F32	TCLP Arsenic	<.5	mg/L		Leachate	Nov-16	TJA		111093W1
			TCLP Barium	<10.	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Cadmium	<.1	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Chromium	<.5	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Lead	<.5	mg/L		Leachate	Nov-11	ICAP		111093W1
			TCLP Mercury	<.0005	mg/L		Leachate	Nov-12	PE-3100		1111932
			TCLP Selenium	<.1	mg/L		Leachate	Nov-16	TJA		111093W1
			TCLP Silver	<.5	mg/L		Leachate	Nov-11	ICAP		111093W1
			Zinc	170.	mg/Kg	*	Solid	Nov-11	ICAP		110993S2

Total

total

\* Original Weight



APPENDIX J, SECTION C-9

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

TO: Files

DATE: December 28, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldg 41-1 Galvanizing Area Pipe  
Clean-Out Liquid Sampling  
(Drum #20072)

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-22-93

LOCATION: Bldg 12-1 Short Term Storage (STS)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Liquid

PURPOSE: To collect a sample for GE to determine the proper disposal method of the liquid that was generated from the cleaning out of the piping in the old galvanizing area located in Bldg 41-1 and placed into GE Drum #20072. This drum is located in Bldg 12-1 STS.

NOTES: The following sampling program was implemented at the request of Jeff Ruebesam (GE), (see attached sample request letter dated 11-18-93).

1.) One (1) discrete-grab sample of the liquid residue located in GE Drum #20072 from Bldg 41-1 is to be collected and analyzed for Total Zinc (Method 200.7) and TCLP (Metals Only-Method 1311).

2.) GE requests that the sample collected be analyzed at the Syracuse, N.Y. OBG Laboratory.

agp

November 18, 1993

To: B. Eulian - B & B

From: A. Cole - GEC

Re: 40's demolition project

Please sample drum number 20072, located in 12 STS and TCLP metals and Zinc. This drum contains liquid with a pH of 3.3 which was retrieved from some of the piping in the old galvinizing area of bldg. 41.

The analyses may be done at O'Brien and Gere and the job billed to the 40's demolition.

BLDG 41

DELIVERED TO  
GRANT BOWMAN (GB)  
12-30-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg 41-1 Galvanizing Area Pipe  
Clean-Out Liquid Sampling  
(Drum #20072)

Date: December 29, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-22-93 on the liquid that was generated from the cleaning out of the piping in the old galvanizing area located in Bldg 41-1 and placed into GE Drum #20072. The drum is located in Bldg 12-1 Short Term Storage Area (STS) .

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

GE drum #20072 was sampled on a discrete-grab sample basis for Total Zinc (Method 200.7) and TCLP (Metals Only-Method 1311) two (2) one quart glass containers were collected.

Note: The sample was collected using an ISCO Peristaltic pump and Teflon tubing.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site locations (Figure 1) and sample location (Figure 2). Analytical reports provided by OBG Laboratories (Attachment 1) have also been included.

agp

Bldg's 41-1,41-2,41A & 40A

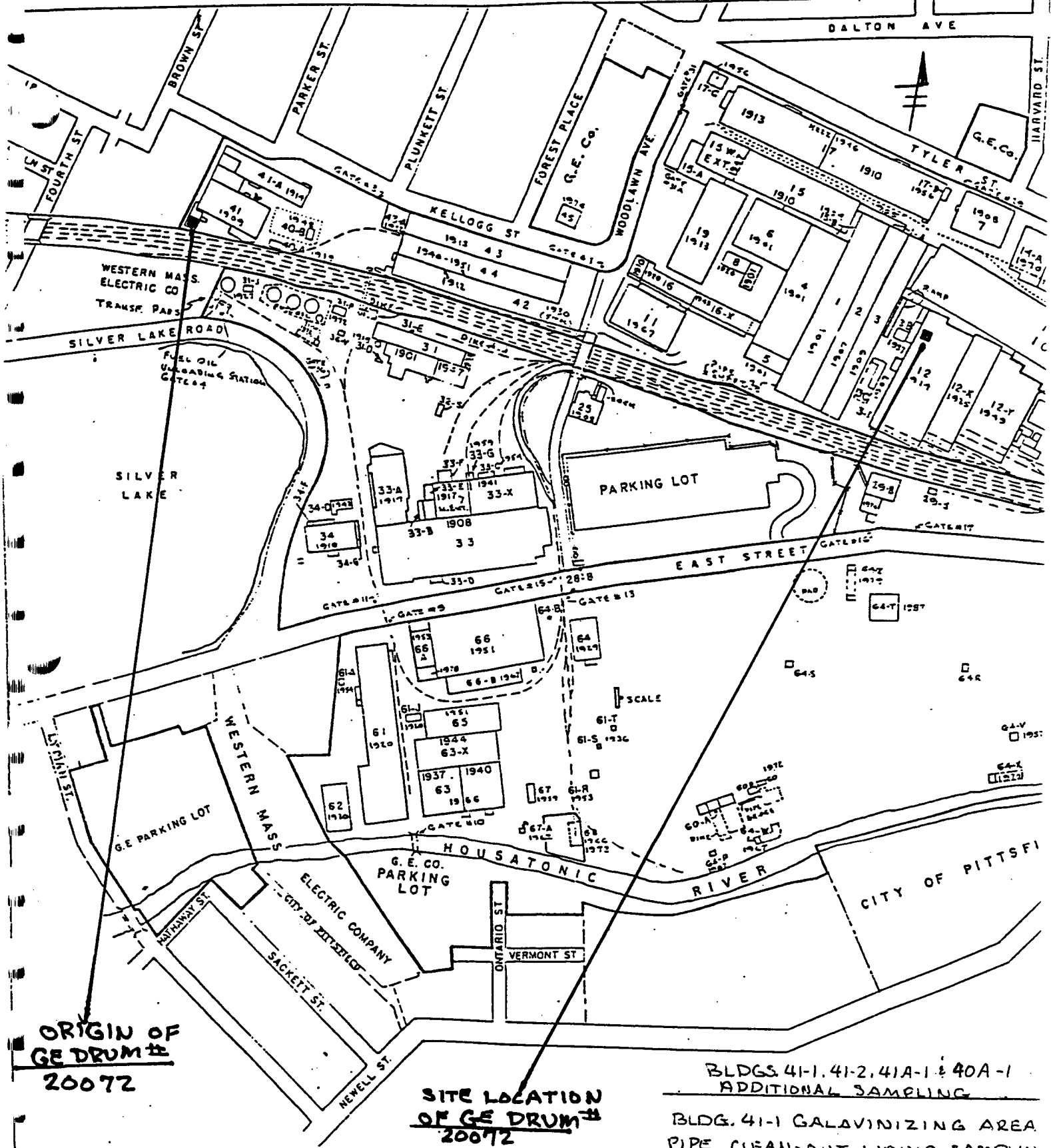
Additional Sampling

Bldg 41-1 Galvinizing Area Pipe  
Clean-Out Liquid Sampling  
(Drum #20072)  
201.17.06

Table 1

LAB ID	DATE SAMPLED	TOTAL ZINC METHOD 200.7	TCLP METALS ONLY METHOD 1311	SAMPLE LOCATION GE DRUM #	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41-1-GA-20072-L1	11-22-93	SEE OBG LAB REPORT	SEE OBG LAB REPORT	20072	LIQUID	DISCRETE-GRAB	0"-13"	2

FIGURE 1



ORIGIN OF  
GE DRUM #  
20072

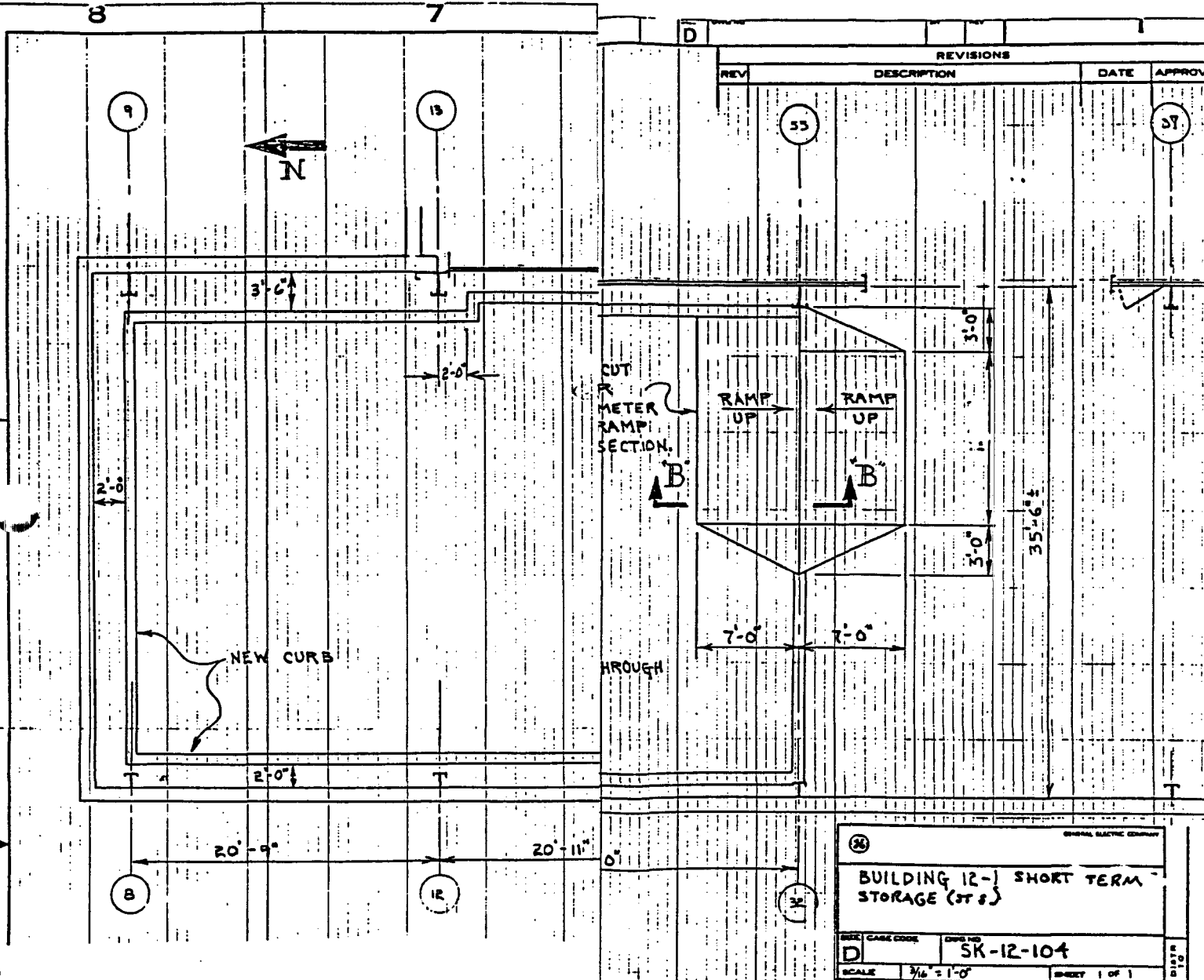
SITE LOCATION  
OF GE DRUM #  
20072

BLDG. 41-1, 41-2, 41A-1 & 40A-1  
ADDITIONAL SAMPLING  
BLDG. 41-1 GALVANIZING AREA  
PIPE CLEAN-OUT LIQUID SAMPLIN  
(DRUM # 20072)

201.17.06



FIGURE 2



38		ORIGINAL ELECTRIC COMPANY	
BUILDING 12-1 SHORT TERM STORAGE (ST 8)			
ISSUE	CAGE CODE	DRWG NO	
D		SK-12-104	
SCALE 3/16" = 1'-0"		SHEET 1 OF 1	

BLDG. 41-1, 41-2, 41A-E & 40A-1 ADDITIONAL SAMPLING

BLDG 41-1 GALVANIZING AREA PIPE  
 CLEAN-OUT (LIQUID) DRUM # 20072  
 SAMPLING  
 201.17.06

ATTACHMENT 1



# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517  
 DESCRIPTION Pittsfield, MA B & B #201.17.06  
Bldg. 41-1 Galvinizing Area Drum #20072 Sampling MATRIX: Water  
 Toxicity Characteristic \_\_\_\_\_ DATE COLLECTED 11-22-93 DATE RECEIVED 11-23-93

Leaching Procedure

Description:	41-1-GA-20072-L1				
Sample #	T0434				
<b>TCLP Metals:</b>					
ARSENIC	<0.5				
BARIUM	<10.				
CADMIUM	0.3				
CHROMIUM	6.3				
LEAD	4.8				
MERCURY	<0.0005				
SELENIUM	<0.1				
SILVER	<0.5				
<b>Analytical Record:</b>					
Date Leachate Created	11-23-93				
Date Mercury Analyzed	12-8-93				

Comments:

Certification No.: NY034  
 Units: mg/l

Authorized: *Authy*  
 Date: December 22, 1993





APPENDIX J, SECTION C-10

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

TO: Files

DATE: November 30, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldg 41A (Outside Eastend) Watermain  
Shut-off Excavation Sampling

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-29-93

LOCATION: Bldg 41A (outside eastend)- (Photos available in Pittsfield file)

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Soil

2.) Concrete

PURPOSE: To collect samples for GE to determine the proper disposal method for the soil and concrete that was excavated during the watermain shut-off excavation outside the eastend of Bldg 41A.

NOTES: The following sampling program was implemented at the request of Jeff Ruebesam (GE), (see attached sample request letter dated 11-29-93).

1.) Ten (10) discrete-grab samples of soil are to be collected and analyzed for PCB's (Method 8080)

2.) Two (2) field-composite samples of soil are to be collected and analyzed for TCLP (Metals Only-Method 1311).

3.) Two discrete full-core samples of concrete are to be collected and analyzed for PCB's (Method 8080).

4.) The discrete-grab soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

5.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be analyzed for VOC's (Method 8240) and 1,2,4 Trichlorobenzene (Method 8120).

6.) GE requests that the PCB samples collected be analyzed at the Pittsfield OBG Laboratory and the TCLP samples collected be analyzed at the Syracuse OBG Laboratory. Also if the PID readings are greater than or equal to 10 PPM the VOC's and 1,2,4 Trichlorobenzene samples collected are to be analyzed at the Syracuse OBG Laboratory.

November 29, 1993

To: J. Hassett - B & B

From: A. Cole 

Re: 40's Demolition - Watermain shutoff

Soil has been excavated to shutoff a waterline connected with the demolition of the 40's complex. It is estimated that between 20 and 40 yards of material needs to be sampled.

Please sample for PCB (method 8080) at the rate of 5 samples for every 20 yards of material. These samples may be analyzed at the O B & G lab locally.

Please take two field composites for TCLP metals only (method 1311). These may be analyzed at O B & G in Syracuse.

Please take Photoionization Detector readings of the samples. If the readings are greater than 10 take two 2 field composites for Volatile Organic Compounds and 1,2,4 Trichlorobenzene (methods 8240 and 8120). If samples are taken they may be analyzed at O B & G in Syracuse.

Please take full cores of concrete for PCB at the rate of 1 per yard. This may be analyzed at O B & Gere locally.



DELIVERED TO  
GRANT BOWMAN (GB)  
12-30-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg 41A (Outside Eastend) Watermain  
Shut-off Excavation Sampling

Date: November 30, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-29-93 on the soil and concrete that was excavated during the watermain shut-off excavation outside the eastend of Bldg 41A.

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

-Ten (10) discrete-grab samples of soil were collected and analyzed for PCB's (Method 8080).

-Two (2) field-composite samples of soil were collected and analyzed for TCLP (Metals Only-Method 1311).

-Two (2) discrete full-core samples of concrete were collected and analyzed for PCB's (Method 8080).

The discrete-grab soil samples were screened with a calibrated PID meter and were found to be <10 PPM therefore the samples were not analyzed for VOC's (Method 8240) or 1,2,4, Trichlorobenzene (Method 8120).

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 (Attachment 1) have also been included. In addition, a calibration form (Attachment 2) and the soil screening results (Attachment 3) have been provided.

agp

Bldg's 41-1,41-2,41A & 40A

Additional Sampling

Bldg 41A (Outside Eastend) Watermain  
Shut-off Excavation Sampling

201.17.06

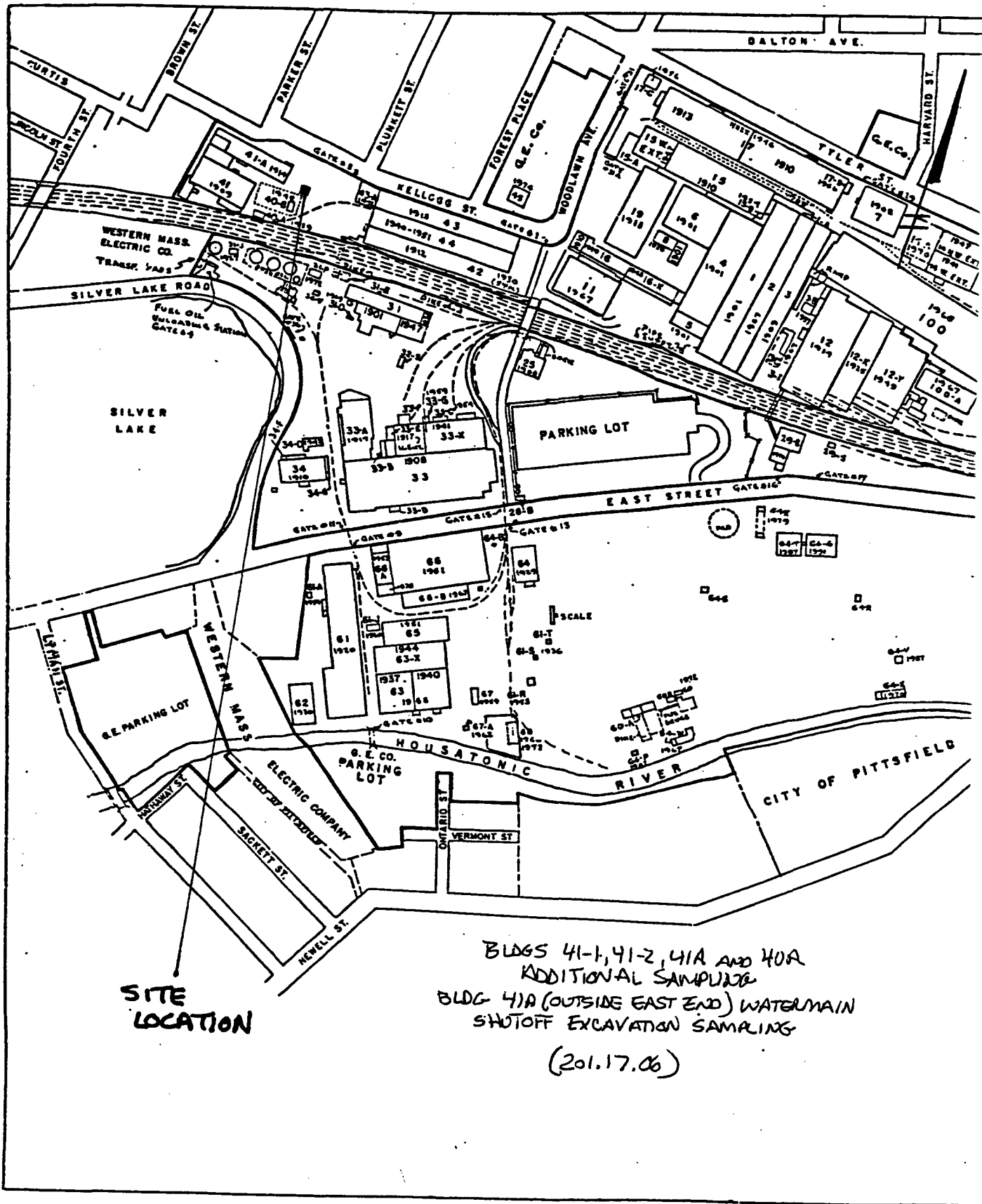
Table 1

LAB ID	DATE SAMPLED	PCB METHOD 8080 PPM	TCLP METALS ONLY METHOD 1311	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41A-WMS-C1	11-29-93	<1	NR	41	SOIL	DISCRETE-GRAB	0'-1'	2
41A-WMS-C2	11-29-93	<1	NR	42	SOIL	DISCRETE-GRAB	1'-2'	2
41A-WMS-C3	11-29-93	<1	NR	43	SOIL	DISCRETE-GRAB	2'-3'	2
41A-WMS-C4	11-29-93	<1	NR	44	SOIL	DISCRETE-GRAB	0'-1'	2
41A-WMS-C5	11-29-93	<1	NR	45	SOIL	DISCRETE-GRAB	1'-2'	2
41A-WMS-C6	11-29-93	<1	NR	46	SOIL	DISCRETE-GRAB	0'-1'	2
41A-WMS-C7	11-29-93	<1	NR	47	SOIL	DISCRETE-GRAB	1'-2'	2
41A-WMS-C8	11-29-93	<1	NR	48	SOIL	DISCRETE-GRAB	2'-3'	2
41A-WMS-C9	11-29-93	<1	NR	49	SOIL	DISCRETE-GRAB	0'-1'	2
41A-WMS-C10	11-29-93	<1	NR	50	SOIL	DISCRETE-GRAB	1'-2'	2
41A-WMS-C11	11-29-93	NR	SEE OBG LAB REPORT	41-45	SOIL	FIELD-COMPOSITE	0'-3'	2
41A-WMS-C12	11-29-93	NR	SEE OBG LAB REPORT	46-50	SOIL	FIELD-COMPOSITE	0'-3'	2
41A-WMS-C13	11-29-93	<1	NR	51	CONCRETE	DISCRETE (FULL-CORE)	0"-5"	2
41A-WMS-C14	11-29-93	1.1	NR	52	CONCRETE	DISCRETE (FULL-CORE)	0"-5"	2

NR: NOT REQUIRED

agp

FIGURE 1



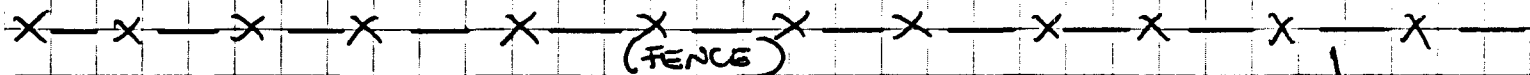
SITE LOCATION

BLDGS 41-1, 41-2, 41A AND 40A  
ADDITIONAL SAMPLES  
BLDG 41A (OUTSIDE EAST END) WATERMAIN  
SHUTOFF EXCAVATION SAMPLING  
(201.17.06)

SUBJECT	BLDGS 41-1, 41-2, 41A AND 40A ADDITIONAL SAMPLING BLDG 41A (OUTSIDE EAST END) WARDMAN SHUTOFF EXCAVATION SAMPLES	PROJ. NO.	20117.00	BY	JJN	DATE	11-30-93	SHEET	1 of 1
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KELLOGG STREET

FIGURE 2



- LEGEND**  
(NOT TO SCALE)
- SOIL PILE
  - CONCRETE PILE
  - SOIL SAMPLE LOCATION
  - CONCRETE SAMPLE LOCATIONS

NOTE - TWO (2) FIELD COMPOSITE TELP INTERVALS ONLY METHOD 1311 WERE COLLECTED (LOC #S 41-45 AND 46-50)

BLDG 41A

EXCAVATED AREA  
(APPROX 13' L X 9' W X 8.5' D)

44  
PPM  
PCB

41  
PPM  
PCB

49  
PPM  
PCB

51  
PPM  
PCB

42  
PPM  
PCB

52  
PPM  
PCB

50  
PPM  
PCB

43  
PPM  
PCB

45  
PPM  
PCB

46  
PPM  
PCB

48  
PPM  
PCB

47  
PPM  
PCB

APPROX DIMENSIONS

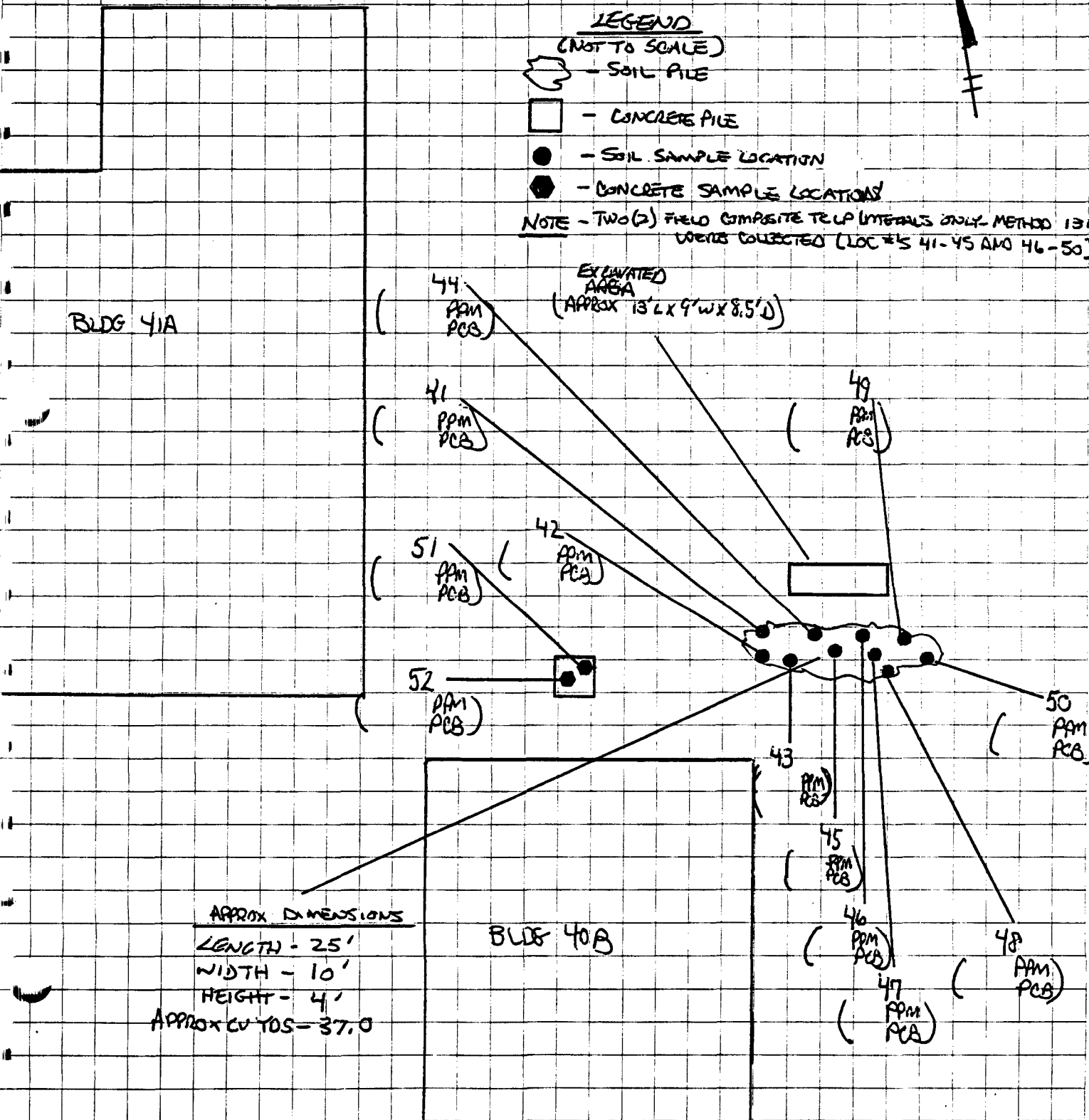
LENGTH - 25'

WIDTH - 10'

HEIGHT - 4'

APPROX CU YOS = 37.0

BLDG 40A



**ATTACHMENT 1**



4440

PRELIMINARY  
DEC - 2 1993

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 201-17-06  
Bldg 41A (Outside East end) - Watermain shutoff excavation sampling  
 Date Analyzed 12/1 → 12/2/93 DATE COLLECTED See Below DATE RECEIVED 11/30/93

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
41A-WMS-C1	11/30/93	11/29/93	<1	92%	<1	Soil ↓ Concrete ↓	
C2			<1	94	<1		
C3			<1	92	<1		
C4			<	94	<1		
C5			<1	90	<1		
C6			<1	93	<1		
C7			<1	92	<1		
C8			<1	91	<1		
C9			<1	91	<1		
C10			<1	93	<1		
C13					<1		
C14					1.1		
A. Reagent Blank	113093-1:				<1		
Reference Sample	113093-1:				2.3/3 = 77%		
Matrix Spike 41A-WMS-C2:					23/3 = 77%		
Matrix Spike Duplicate:					2.3/3 = 77%		
Precision:					23 vs 2.3 = 0% RPD		

Comments:

Certification No.:

Units: mg/Kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517  
 DESCRIPTION Pittsfield, MA B & B #201.17.06  
Bldgs. 41-1, 41-2, 41A & 40A Additional Sampling(Bldg. 41A Watermain Shutoff) MATRIX: Solid  
 Toxicity Characteristic DATE COLLECTED 11-29-93 DATE RECEIVED 11-30-93

Leaching Procedure

Description:	41A-WMS-C11	41A-WMS-C12			
Sample #	T0568	T0569			
<b>TCLP Metals:</b>					
ARSENIC	<0.5	<0.5			
BARIUM	<10.	<10.			
CADMIUM	<0.1	<0.1			
CHROMIUM	<0.5	<0.5			
LEAD	<0.5	<0.5			
MERCURY	<0.0005	<0.0005			
SELENIUM	<0.1	<0.1			
SILVER	<0.5	<0.5			
<b>Analytical Record:</b>					
Date Leachate Created	12-2-93				
Date Mercury Analyzed	12-8-93				

Comments:

Certification No.: NY034

Units: mg/l

Authorized: *Anthony C...*

Date: December 22, 1993

**ATTACHMENT 2**



**BLASLAND & BOUCK ENGINEERS, P.C.**

**PHOTOIONIZATION DETECTOR (PID) - HNU CALIBRATION FORM**

Bldgs 41-1, 41-2, 41A & 40A Additional Sampling  
Bldg 41A (outside eastend) Watermain Shutoff Excavation Sampling  
(201.17.06)

**Date:** 11-29-93

**Operator:** Jim Hassett

**HNU Serial #:** A70129

**eV of Probe:** 10.2

**Calibration Gas:**        9.8        **Span Setting**      @        57        ppm

**Initial Reading:**        9.8        **Span Setting**      @        57        ppm

**Adjusted Setting:**        ---        **Span Setting**      @        --        ppm

**Notes:**

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**ATTACHMENT 3**







**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				
201.17.06		BLDGS 41-1 41-2 41A AND 41A ADDITIONAL SAMPLING - BLDG 41A (OUTSIDE EASTEND) WATERMAIN SHUNT EXHAUSTION SAMPLING												
LAB ID	CUSTODY-TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE								
						SOLID	WIPE	WATER						
41A-WMS-C1	(SOIL)	11-29-93	1330		X	X			1	X	PCBs (METHOD 8030)			
41A-WMS-C2	(SOIL)	11-29-93	1340		X	X			1	X				
41A-WMS-C3	(SOIL)	11-29-93	1350		X	X			1	X				
41A-WMS-C4	(SOIL)	11-29-93	1400		X	X			1	X				
41A-WMS-C5	(SOIL)	11-29-93	1410		X	X			1	X				
41A-WMS-C6	(SOIL)	11-29-93	1420		X	X			1	X				
41A-WMS-C7	(SOIL)	11-29-93	1430		X	X			1	X				
41A-WMS-C8	(SOIL)	11-29-93	1440		X	X			1	X				
41A-WMS-C9	(SOIL)	11-29-93	1450		X	X			1	X				
41A-WMS-C10	(SOIL)	11-29-93	1500		X	X			1	X				
41A-WMS-C13	(CONCRETE)	11-29-93	1530		X	X			1	X				
41A-WMS-C14	(CONCRETE)	11-29-93	1545		X	X			1	X				
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		
<i>[Signature]</i>		11-29-93 1545		<i>[Signature]</i>				<i>[Signature]</i>		11/30/93		<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				
				<i>[Signature]</i>				11/30/93 1010		DELIVERED TO RECEIVED BY LABORATORY				

APPENDIX J, SECTION C-11

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

TO: Files

DATE: October 8, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Soil Sampling Tile Pipes)

INITIATOR: Jeff Ruebesam (GE)

DATE: 9-16-93

LOCATION: Bldg 41-1

CONTACT PERSON: Jeff Ruebesam (GE)

EXT: 3728

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine the proper disposal method of the soil that was excavated during the investigation to locate the Tile Pipes in Bldg 41-1.

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

1.) Five (5) discrete-grab samples of soil are to be sampled and analyzed for PCB's (Method 8080).

2.) One (1) field-composite sample of soil is to be sampled and analyzed for TCLP (Metals Only) and Total Cyanide (Method 9010).

3.) The soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

4.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be analyzed for VOC's (Method 8240) and 1,2,4 Trichlorobenzene (Method 8120).

5.) G.E. requests that the PCB samples collected be analyzed at the Pittsfield OBG Laboratory and the TCLP (Metals Only) and Total Cyanide (Method 9010) sample collected be analyzed at the Syracuse OBG Laboratory. Also, if the PID readings are greater than or equal to 10 PPM the VOC and 1,2,4 Trichlorobenzene samples collected be analyzed at the Syracuse OBG Laboratory.

jh

DELIVERED TO  
GRANT BOWMAN (GE)  
10-18-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Soil Sampling Tile Pipes)

Date: October 8, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 9-17-93 on the soil that was excavated during the investigation to locate the Tile Pipes in Bldg 41-1.

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

- Five (5) discrete-grab samples of soil were collected and analyzed for PCB's (Method 8080).

- One (1) field-composite sample of soil was collected and analyzed for TCLP (Metals Only) and Total Cyanide (Method 9010).

The soil samples were screened with a calibrated PID meter and were found to be <10 PPM, therefore, the samples were not analyzed for VOC's (Method 8240) or 1,2,4 Trichlorobenzene (Method 8120).

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 (Attachment 1) have also been included. In addition, a calibration form (Attachment 2) and the soil screening results (Attachment 3) have been provided.

jjh



Bldgs 41-1, 41-2, 41A & 40A  
 Additional Sampling  
 (Soil Sampling Tile Pipes)

(201.17.06)

Table 1

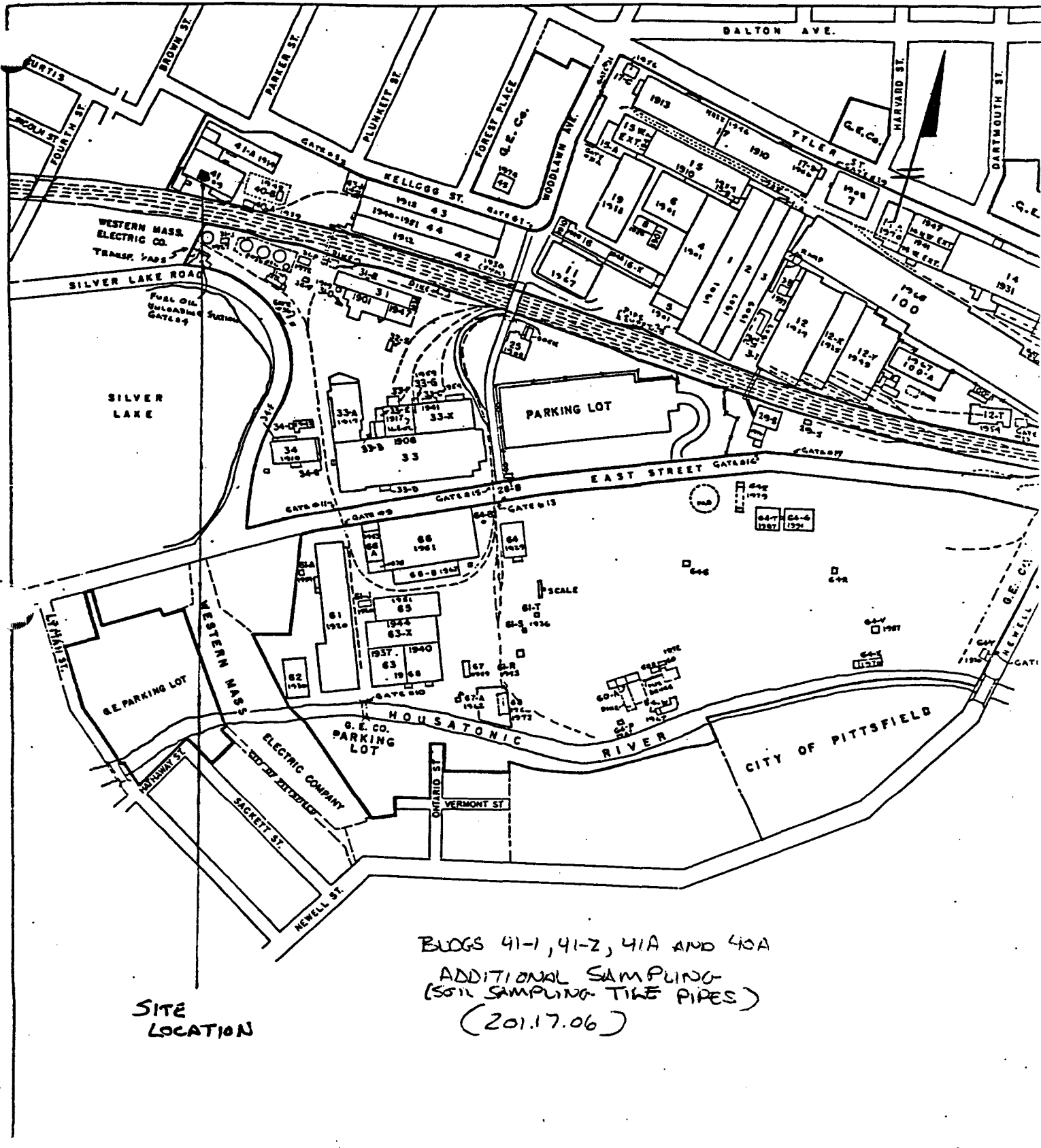
LAB ID	DATE SAMPLED	TOTAL PCB PPM	TCLP (METALS ONLY)	TOTAL CYANIDE	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41-1-C11	9-17-93	11.	NR	NR	39	SOIL	DISCRETE-GRAB	(0-1')	2
41-1-C12	9-17-93	1.3	NR	NR	40	SOIL	DISCRETE-GRAB	(0-1')	2
41-1-C13	9-17-93	3.5	NR	NR	41	SOIL	DISCRETE-GRAB	(0-1')	2
41-1-C14	9-17-93	<1.	NR	NR	42	SOIL	DISCRETE-GRAB	(0-1')	2
41-1-C15	9-17-93	7.8	NR	NR	43	SOIL	DISCRETE-GRAB	(0-1')	2
41-1-C16	9-17-93	NR	SEE OBG LAB REPORT	SEE OBG LAB REPORT	39-43	SOIL	FIELD-COMPOSITE (GRAB)	(0-1')	2

NOTE:




R - NOT REQUESTED

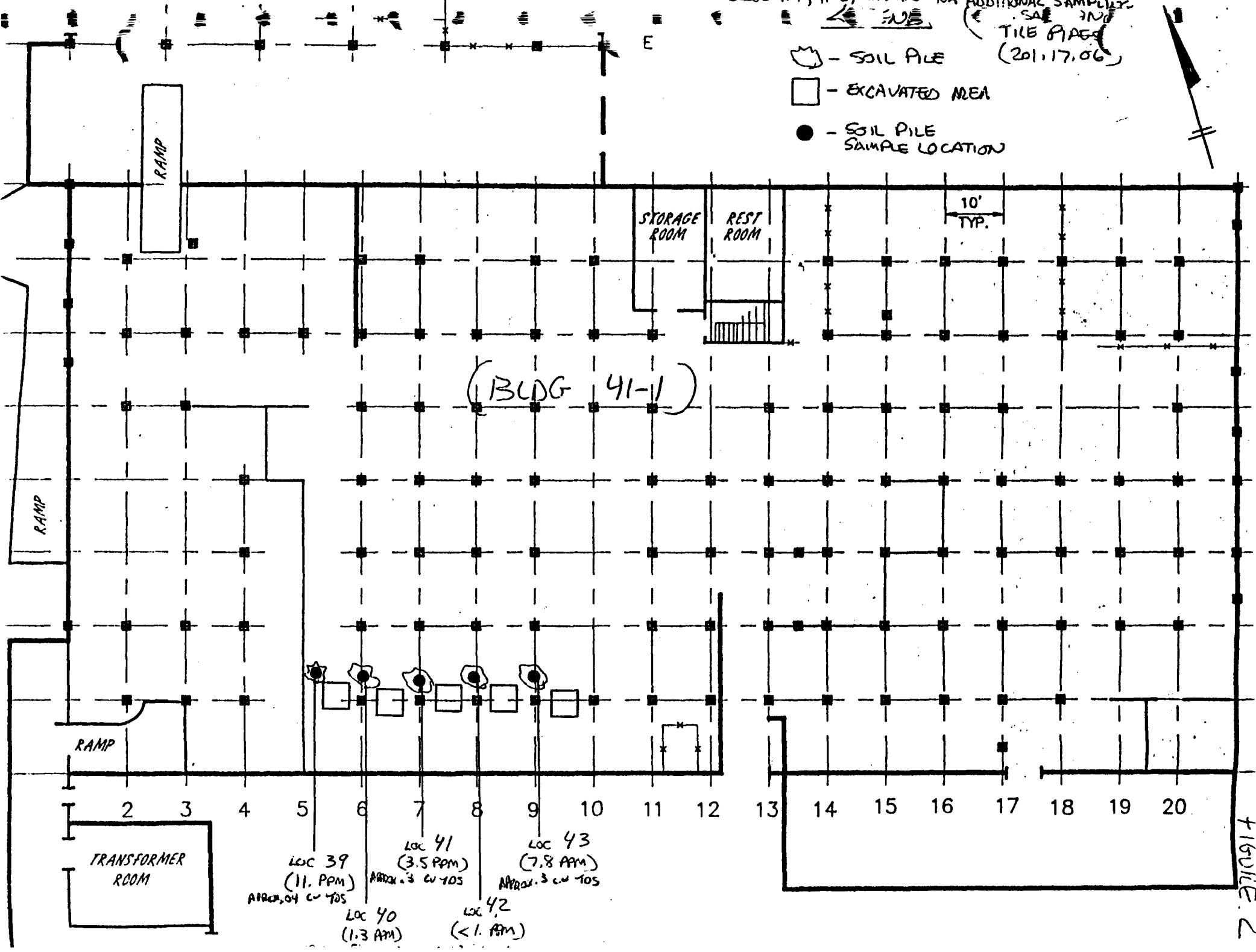
jh

FIGURE 1



SUGGS 41-1, 41-2, 41A AND 40A ADDITIONAL SAMPLING  
 SAE 710  
 TILE PILES  
 (201.17.06)

-  - SOIL PILE
-  - EXCAVATED AREA
-  - SOIL PILE SAMPLE LOCATION



**ATTACHMENT 1**



7706

PRELIMINARY  
SEP 21 1993

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 201-17-06  
Bldgs 41-1 41-2 41A and 40A ; Additional Sampling  
 Date Analyzed 9/17, 9/21/93 DATE COLLECTED See Below DATE RECEIVED 9/17/93

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
41-1-C11	9/17/93	9/17/93	10.7	98	11	soil	A
↓ C12	↓	↓	1.3	98	1.3	↓	↓
C13			3.5	99	3.5		
↓ C14	↓	↓	.717 (<1)	98	<1	↓	↓
C15			7.7	99	7.8		
A. Reagent Blank 091793-1:					<1		
Reference Sample 091793-r:					2.2/3 = 73%		
Matrix Spike 41-1-C15:					2/3 = 67%		
Matrix Spike Duplicate:					2/3 = 67%		
PRECISION:					2.0 vs 2.0 = 0% RPD		

Comments:

Certification No.:

Units: mg/kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

To: Blasland & Bouck Engineers  
 Co: BFB Job #: 2887046.517  
 Fax#: 413 444 2041  
 Pages: 2 From: M. Yates  
 DBG LABS (315)437-0200/463-7554 Fax



PACKAGE / SAMPLE SCHEDULE  
 Mon, Sep 20, 1993  
 Project Manager: A C  
 Page 1 of 1

cc: hts  
 DRB

PRELIMINARY  
 OCT 8 1993

PACKAGE

Job No.: 2887.26.517 Client: Blasland & Bouck Engineers, P.C.  
 Project: Pittsfield, MA Description: Bldgs. 41-1; 41-2; 41-A; & 40-A Sampling ( BSB#: 201.17.06)  
 Scheduled: SEP-20 Due: OCT-1  
 Package number: B157 QC Level: 1  
 Samples: S7202 - 7203 Number of samples: 2  
 Certification: NY034  
 Comments: \_\_\_\_\_

SCHEDULED SAMPLES

Sample Number	Group	Parameter	ID	Method	Matrix	Comments
S7202 - 7202	1 (WC)	% Total Solids	828	S.M. 16 209F	Solid	99
S7202 - 7202	1 (WC)	Total cyanide	1281	EPA 9010	Solid	29
S7203 - 7203	1	TCLP-MET-WS[MET]				

mg/kg dry wt (ppm)

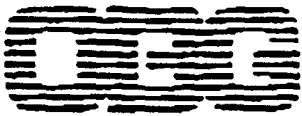
LIST OF ALL SAMPLES IN PACKAGE:

Sample	Description	Bin	Type	Collected	Received	Due	Comments
S7202	41-1-C16	58	Grab	SEP-17	SEP-17 18:30	OCT-1	
S7203	41-1-C16	58	Grab	SEP-17	SEP-17 18:30	OCT-1	***TCLP***

Bruce,

TCLP metals need to be rerun to confirm the mercury results. Will be sending them on Wednesday 10-13.

Thanks,  
 MARK.



LABORATORIES, INC.

To: Bruce Eulien  
Co: BrB Job #: 2887.026.517  
Fax#: 413 494 2041  
Pages: 1 From: MARK YATES  
OBG LABS (315)437-0200/463-7554 Fax

# Laboratory Report

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

DESCRIPTION Pittsfield, MA

Toxicity Characteristic Leaching Procedure MATRIX: Solid

DATE COLLECTED 9-17-93 DATE RECEIVED 9-17-93

Description

41-1-C16

Sample #

57203

PRELIMINARY  
OCT 14 1993

**TCLP Metals:**

ARSENIC	<0.5
BARIUM	<10.
CADMIUM	1
CHROMIUM	<0.5
LEAD	<0.5
MERCURY	0.33
SELENIUM	<0.1
SILVER	<0.5

**Analytical Record:**

Date Leachate Created 9-22-93

Date Mercury Analyzed 10-13-93

Comments:

Certification No.: NY034  
Units: mg/L (ppm)

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

**ATTACHMENT 2**



HNU CALIBRATION

BLOGS 41-1, 41-2, 41A AND 40A ADDITIONAL  
SAMPLING (SOIL SAMPLING TILE APES)  
(201,17,06)

DATE: 9-17-93  
OPERATOR: Jim NASSETT

HNU SERIAL NO: A70129  
eV OF PROBE: 10.2

CALIBRATION GAS:                    9.8 span setting @ 57 ppm

INITIAL READING:                    9.8 span setting @ 58 ppm

ADJUSTED SETTING:                    10.0 span setting @ 57 ppm

NOTES:

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**ATTACHMENT 3**





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				
201.17.06		Bldgs 41-1, 41-2, 41A and 40A ADDITIONAL SAMPLING										
LAB ID	CUSTODY-TYPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE						
						SOLID SOIL	WIPE	WATER				
41-1-C11		9-17-93	1030		X	X		1	X			
41-1-C12		9-17-93	1045		X	X		1	X			
41-1-C13		9-17-93	1100		X	X		1	X			
41-1-C14		9-17-93	1115		X	X		1	X			
41-1-C15		9-17-93	1130		X	X		1	X			
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
<i>James J. Russell</i>		9-17-93 1130		<i>James J. Russell</i>			<i>James J. Russell</i>		9-17-93 1145			
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			
				<i>L. V. ...</i>			9/17/1145 93		DELIVERED TO PITTSFIELD OBG LAB			



**BLASLAND & BOUCK ENGINEERS, P.C.**

**(REQUEST FOR SAMPLING)**

**TO: Files**

**DATE: November 17, 1993**

**FROM: Bruce Eulian**

**FILE NO: 201.17.06**

**RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 41-1 Concrete Pile Sampling  
(Tile Pipe Area)**

**INITIATOR: Jeff Ruebesam (GE)**

**DATE: 11-15-93**

**LOCATION: Bldg 41-1 (outside)**

**CONTACT PERSON: Jeff Ruebesam (GE)**

**EXT: 3728**

**ITEM DESCRIPTION:**

**1.) Concrete**

**PURPOSE: To collect samples for GE to determine the proper disposal method of the concrete pile located outside of Bldg 41-1 generated during the excavation of the floor from the Tile Pipe area in Bldg 41-1.**

**NOTES: The following sampling program was implemented at the request of Jeff Ruebesam (GE), (see attached sample request letter dated 11-15-93):**

**1.) Four (4) discrete (full-core) samples of the concrete pile located outside of Bldg 41-1 generated during the excavation of the floor from the Tile Pipe area in Bldg 41-1 are to be collected and analyzed for PCBs (Method 8080), Total Cyanide (Method 9010) and Amenable Cyanide (Method 335.1).**

**2.) Two (2) field-composite (full-core) samples of the concrete pile located outside of Bldg 41-1 generated during the excavation of the floor from the Tile Pipe area in Bldg 41-1 are to be collected and analyzed for TCLP (Metals Only - Method 1311).**

**3.) GE request the samples collected be analyzed at the Syracuse, NY OBG Laboratory.**

Jjh

November 15, 1993

To: B. Eulian - B&B

From: A. Cole - GEC *AC*

Re: Bldg. 41 -1: Concrete from Tile pipe area

Please sample the concrete pile from the excavation of the tile pipe area for PCB (method 8080), TCLP (method 1311) metals only, and Total and Amenable Cyanide (EPA methods 9010 and 335.1 respectively). Please take one discrete PCB sample for every 5 yards of material and one discrete sample each for Total and amenable cyanide. Please take a single field composite for TCLP. *FULL CORE*

These samples may be sent to O'Brien and Gere in Syracuse for analysis. Please request a rapid turnaround on the results. This sampling should be charged to the 40's demolition project.

DELIVERED  
TO BRANT BOUAM  
11-24-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
Bldg 41-1 Concrete Pile Sampling  
(Tile Pipe Area)

Date: November 17, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 11-15-93 on the concrete pile located outside of Bldg 41-1 generated during the excavation of the floor from the Tile Pipe area in Bldg 41-1.

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

- Four (4) discrete (full-core) samples of the concrete pile located outside of Bldg 41-1 generated during the excavation of the floor from the Tile Pipe area in Bldg 41-1 were collected and analyzed for PCB's (Method 8080), Total Cyanide (Method 9010) and Amenable Cyanide (Method 335.1).

- Two (2) field-composite (full-core) samples of the concrete pile located outside of Bldg 41-1 generated during the excavation of the floor from the Tile Pipe area in Bldg 41-1 were collected and analyzed for TCLP (Metals Only - Method 1311).

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). Preliminary analytical reports provided by OBG Laboratories (Attachment 1) have also been included.

jjh



Bldgs 41-1, 41-2, 41A and 40A  
 Additional Sampling  
 Bldg 41-1 Concrete Pile Sampling  
 (Tile Pipe Area)

Table 1

LAB ID	DATE SAMPLED	PCBs METHOD 8080	TOTAL CYANIDE METHOD 9010	AMENABLE CYANIDE METHOD 335.1	TCLP METALS ONLY METHOD 1311	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41-1-C20	11-15-93	<1.	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NR	61	CONCRETE	DISCRETE (FULL-CORE)	(0-4")	2
41-1-C21	11-15-93	<1.	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NR	62	CONCRETE	DISCRETE (FULL-CORE)	(0-4")	2
41-1-C22	11-15-93	<1.	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NR	63	CONCRETE	DISCRETE (FULL-CORE)	(0-4")	2
1-1-C23	11-15-93	<1.	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NR	64	CONCRETE	DISCRETE (FULL-CORE)	(0-4")	2
41-1-C24	11-15-93	NR	NR	NR	SEE OBG LAB REPORT	61 & 62	CONCRETE	FIELD-COMPOSITE (FULL-CORE)	(0-4")	2
41-1-C25	11-15-93	NR	NR	NR	SEE OBG LAB REPORT	63 & 64	CONCRETE	FIELD-COMPOSITE (FULL-CORE)	(0-4")	2

NOTES:

NR - NOT REQUIRED

FIGURE 1

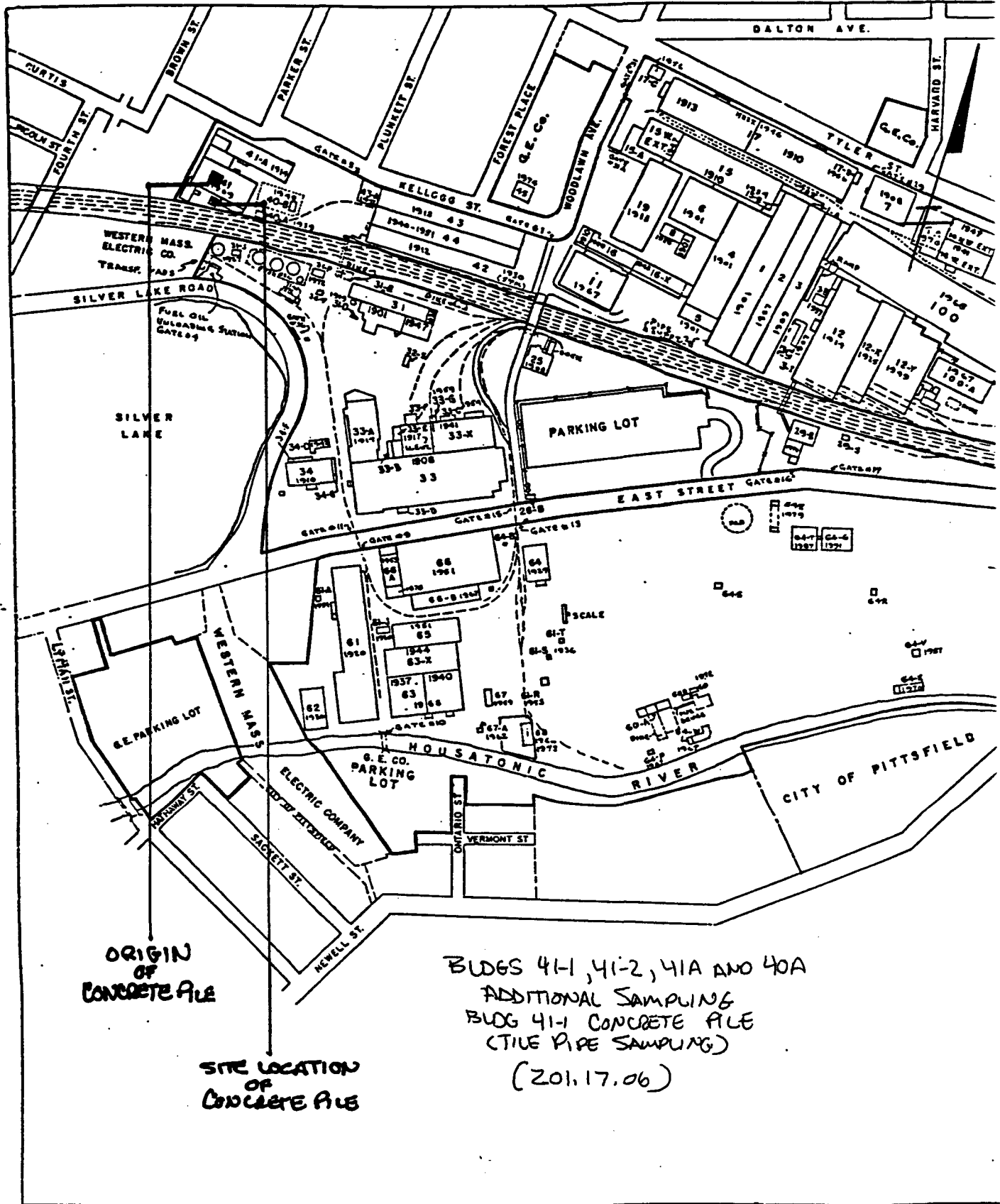
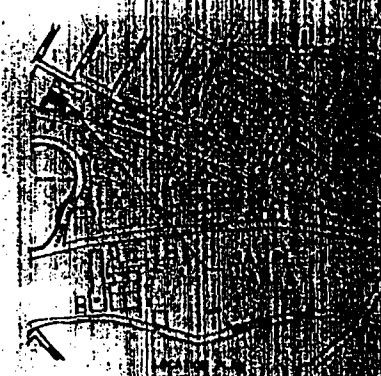


FIGURE 2



BASES 4H, 4I, 2, 4J, 4K, 4L  
 ADDITIONAL SAMPLES  
 BLOC 4H CONCRETE PIPE  
 (TYPE APE SAMPLING)  
 (20.1.7.86)

LEGEND

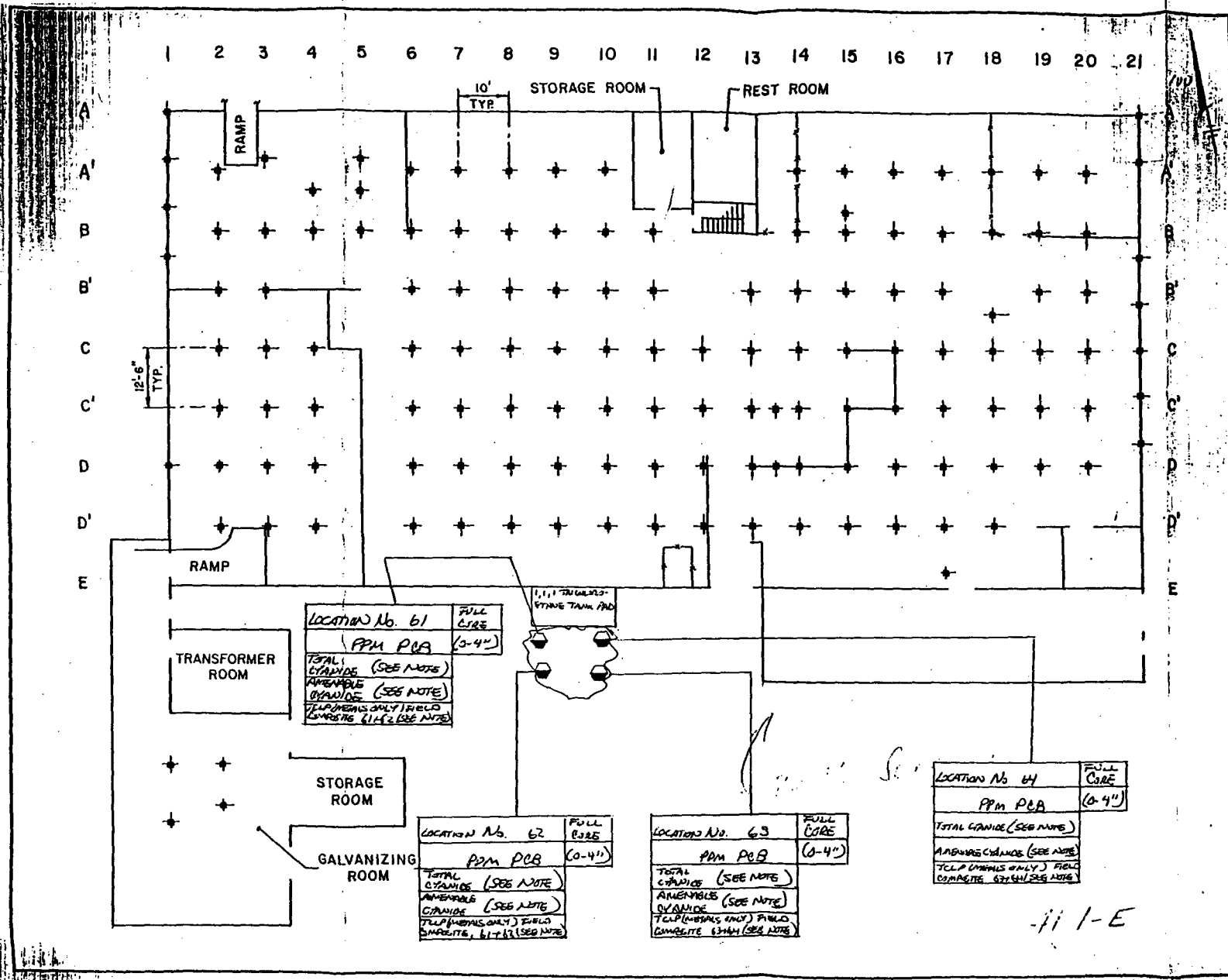
- - CONCRETE PIPE (TYPE APE SAMPLING)
- - CONCRETE SAMPLE (FULL CORE 0-4")

GENERAL NOTES:  
 FOR LAB RESULTS NOT FOUND, SEE MAY  
 SEE 086 LAB REPORTS.

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

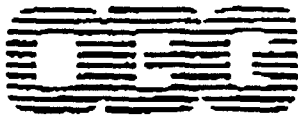
X X-6

BUILDING 4I - FIRST FLOOR



-ii 1-E

**ATTACHMENT 1**



LABORATORIES, INC.

# Laboratory Report

CLIENT O'Brien & Gere Engineers, P.C. JOB NO. 2987.26.517

DESCRIPTION Bldg. 41-1 Concrete Pile

Toxicity Characteristic Leaching Procedure MATRIX: Solid

DATE COLLECTED 11-15-93 DATE RECEIVED 11-16-93

Description	41-1-C24	41-1-C25
Sample #	70096	70097
TCLP Metals:		
ARSENIC	<0.5*	<0.5*
BARIUM	<10.	<10.
CADMIUM	<0.1	<0.1
CHROMIUM	<0.5	<0.5
LEAD	<0.5	<0.5
MERCURY	<0.0005	<0.0005
SELENIUM	0.1*	0.1*
SILVER	<0.5	<0.5

**PRELIMINARY**  
 NOV 23 1993  
*JSD*

**PRELIMINARY**  
 NOV 24 1993

Analytical Record:  
 Date Leachate Created 11-17-93  
 Date Mercury Analyzed 11-24-93

Comments:

Certification No.: N4034  
 Units: mg/L (ppm)

0007004

PACKAGE / SAMPLE SCHEDULE

Wednesday, Nov 17, 1993

Project Manager: A C

Page 2 of 2

Job No.: 2887,26,517 Client: Blasland & Bouck Engineers, P.C.  
 Project: Blasland and Bouck Engineers, P.C. Description: Bldg,41-1 Concrete Pile (Tile Pile) Sampling(B&B#:201.17.06)  
 Scheduled: Tuesday,Nov-16 Pkg Due: Tuesday,Nov-23  
 Package number: 9118 QC Level: 1  
 Samples: T0092 - 0097 Number of samples: 6  
 Certification: NY034  
 Comments: \*\*\*\* 1 WEEK RUSH \*\*\*\*

O'BRIEN & GERE

Due - Date due reflects either holding time or turn-around time, whichever is shortest.

LIST OF ALL SAMPLES IN PACKAGE:

Sample	Description	Bin	Type	Collected	Received	PCT5	CM	Sample Log Comments	CUAM
T0095	41-1-C23	15		NOV-15	Nov-16 10:00	98.	<0.5		<0.5
T0096	41-1-C24	15		NOV-15	Nov-16 10:00	—			
T0097	41-1-C25	15		NOV-15	Nov-16 10:00	—			

315 463 7554

PRELIMINARY  
~~NOV 23 1993~~  
 JSA

PRELIMINARY  
 NOV 24 1993



To: BRUCE EULIAN  
 Co: B & B Job #: 2887-026.517  
 Fax#: 413.494.2041  
 Pages: 12 From: DOMMEN KAPIL  
 OBG LABS (315) 437-0200/463-7554 FAX

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, PC JOB NO. 2887-026.517  
 DESCRIPTION PITTSFIELD, MA. BLDG 41-1. CONCRETE PILE (TILE PILE) SAMPLING  
B & B # 201.17.06 MATRIX: SOLID  
 Date analyzed: 11/19/93 DATE COLLECTED 11/15/93 DATE RECEIVED 11/16/93

**PRELIMINARY**  
NOV 23 1993

Description

Sample #

PCB

~~AR~~ / ~~CL~~ / ~~OR~~

PCTS

41-1-C20  
 41-1-C21  
 41-1-C22  
 41-1-C23

T0092  
 T0093  
 T0094  
 T0095

21  
 ↓

97  
 96  
 97  
 98

Comments:

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

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

Updated 11/17/93

cc: Metals  
DLB  
AW

PACKAGE / SAMPLE SCHEDULE

Wednesday, Nov 17, 1993  
Project Manager: A C  
Page 1 of 2

0004/004

2887.026

PACKAGE

Job No.: 2887.26.517 Client: Blasland & Bouck Engineers, P.C.  
Project: Blasland and Bouck Engineers, P.C. Description: Bldg. 41-1 Concrete Pile (Tile Pile) Sampling (B&B: 201, 17, 06)  
Scheduled: Tuesday, Nov-16 Pkg Due: Tuesday, Nov-23  
Package number: 9118 QC Level: 1  
Samples: T0092 - 0097 Number of samples: 6  
Certification: NY034  
Comments: \*\*\*\* 1 WEEK RUSH \*\*\*\*

PRELIMINARY  
NOV 24 1993

PRELIMINARY  
~~NOV 23 1993~~  
JHN

SCHEDULED SAMPLES

Samples Number	Group	Parameter	ID	Method	Matrix	Schedule Comments	D
T0092 - 0095	4 (VC)	% Total Solids	B2B	S.M. 16 209F	Solid		Nov-23
T0092 - 0095	4 (VC)	Amenable Cyanide	B29	EPA 335.1	Water	This is a SOLID Sample! Amen. CN SOLID Not in LIMS!!!!	Nov-23
T0092 - 0095	4 (VC)	Total cyanide	1281	EPA 9010	Solid		Nov-23
T0092 - 0095	4	8080-PCB-S(SV)					Nov-23
T0096 - 0097	2	TCLP-MET-WS(MET)					Nov-23

\*\* Due - Date due reflects either holding time or turn-around time, whichever is shortest.

LIST OF ALL SAMPLES IN PACKAGE:

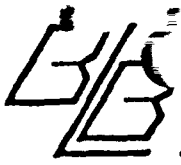
Sample	Description	Bin	Type	Collected	Received	PCTS	CN	Sample Log Comments	CNAM
T0092	41-1-C20	15		NOV-15	Nov-16 10:00	97.	<0.5		<0.5
T0093	41-1-C21	15		NOV-15	Nov-16 10:00	96.	3.4		1.1
T0094	41-1-C22	15		NOV-15	Nov-16 10:00	97	<0.5		<0.5

dry weight mg/kg (ppm)

O'BRIEN & GERE

315 463 7554





**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

**CHAIN OF CUSTODY RECORD**

PROJECT NO. 20-1706		PROJECT NAME BLDG 41-1 CONCRETE PILE (TILE PIPE) SAMPLING					NO. OF CONTAINERS	PCB'S METHOD 8080	TOTAL CHANULE METHOD 9010	AMENABLE CHANULE METHOD 9010	NETION CHANULE METHOD 335.1	TCLP METALS ONLY METHOD 1311	REMARKS		
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE									
						SOLID								MPE	WATER
41-1-C20		11-15-98	15:45			X									
41-1-C21		11-15-98	16:00			X									
41-1-C22		11-15-98	16:15			X									
41-1-C23		11-15-98	16:25			X									
41-1-C24		11-15-98	16:05			X					X				
41-1-C25		11-15-98	16:30			X					X				
SAMPLED BY: (SIGNATURE) <i>Jim Jassetz</i>		DATE/TIME 11-15-98 16:30		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE) <i>Jim Jassetz</i>			DATE/TIME 11-15-98 18:00		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 ORG SYRACUSE FED EXL 9725412545						

APPENDIX J, SECTION C-12

**BLASLAND & BOUCK ENGINEERS, P.C.**

**(REQUEST FOR SAMPLING)**

**TO:** Files

**DATE:** November 22, 1993

**FROM:** Bruce Eulian

**FILE NO:** 201.17.06

**RE:** Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Post Shotblast - Scarifying Sampling)  
(Concrete Floor and Trichloroethane Tank Pad)

**INITIATOR:** Jeff Ruebesam (GE)

**DATE:** 10-18-93

**LOCATION:** Bldg 41A-1 & 41-1 (Outside)

**CONTACT PERSON:** Jeff Ruebesam (GE)

**EXT:** 3728

**ITEM DESCRIPTION:**

- 1.)** Concrete Floor
- 2.)** Trichloroethane Tank Pad

**PURPOSE:** To collect samples for GE of the concrete floor located in Bldg 41A-1 and the Trichloroethane tank pad located outside of Bldg 41-1.

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

- 1.)** Twelve (12) discrete-core (one centimeter core) samples from the concrete floor are to be sampled and analyzed for PCB's (Method 8080) and TPH (Method 418.1) after Clean Berkshires Inc. (CBI) completes the 2nd pass of shotblasting (approx. 1/16").
- 2.)** One (1) discrete-core (one centimeter core) sample from the Trichloroethane tank pad is to be sampled and analyzed for 1,1,1 Trichloroethane after CBI completes the 1st pass of scarifying (approx. 1/16").
- 3.)** G.E. requests that the PCB samples collected be analyzed at the Pittsfield OBG Laboratory and all other samples collected be analyzed at the Syracuse, NY OBG Laboratory.

**Note:** Per Jeff Ruebesam (GE) the two (2) samples that are found to have the highest TPH result using Method 418.1 are also to be analyzed for TPH using the G.C.F.I.D. Method.

jjh

DELIVERED TO  
GRANT BOWMAN (GE)  
12-1-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(Post Shotblast - Scarifying Sampling)  
(Concrete Floor and Trichloroethane Tank Pad)

Date: November 22, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted on 10-20-93 and 10-22-93 on the concrete floor located in Bldg 41A-1 and the Trichloroethane tank pad located outside of Bldg 41-1.

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

- Twelve (12) discrete-core (one centimeter core) samples from the concrete floor were collected and analyzed for PCB's (Method 8080) and TPH (Method 418.1) after Clean Berkshires Inc. (CBI) completed the 2nd pass of shotblasting (approx. 1/16").

- One (1) discrete-core (one centimeter core) sample from the Trichloroethane tank pad was collected and analyzed for 1,1,1 Trichloroethane after CBI completed the 1st pass of scarifying (approx. 1/16").

**Note:** Per Jeff Ruebesam (GE) the two (2) samples that were found to have the highest TPH result using Method 418.1 were also analyzed for TPH using the G.C.F.I.D. Method.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figures 2 & 3). Preliminary analytical reports provided by OBG Laboratories (Attachment 1) have also been included.

jjh

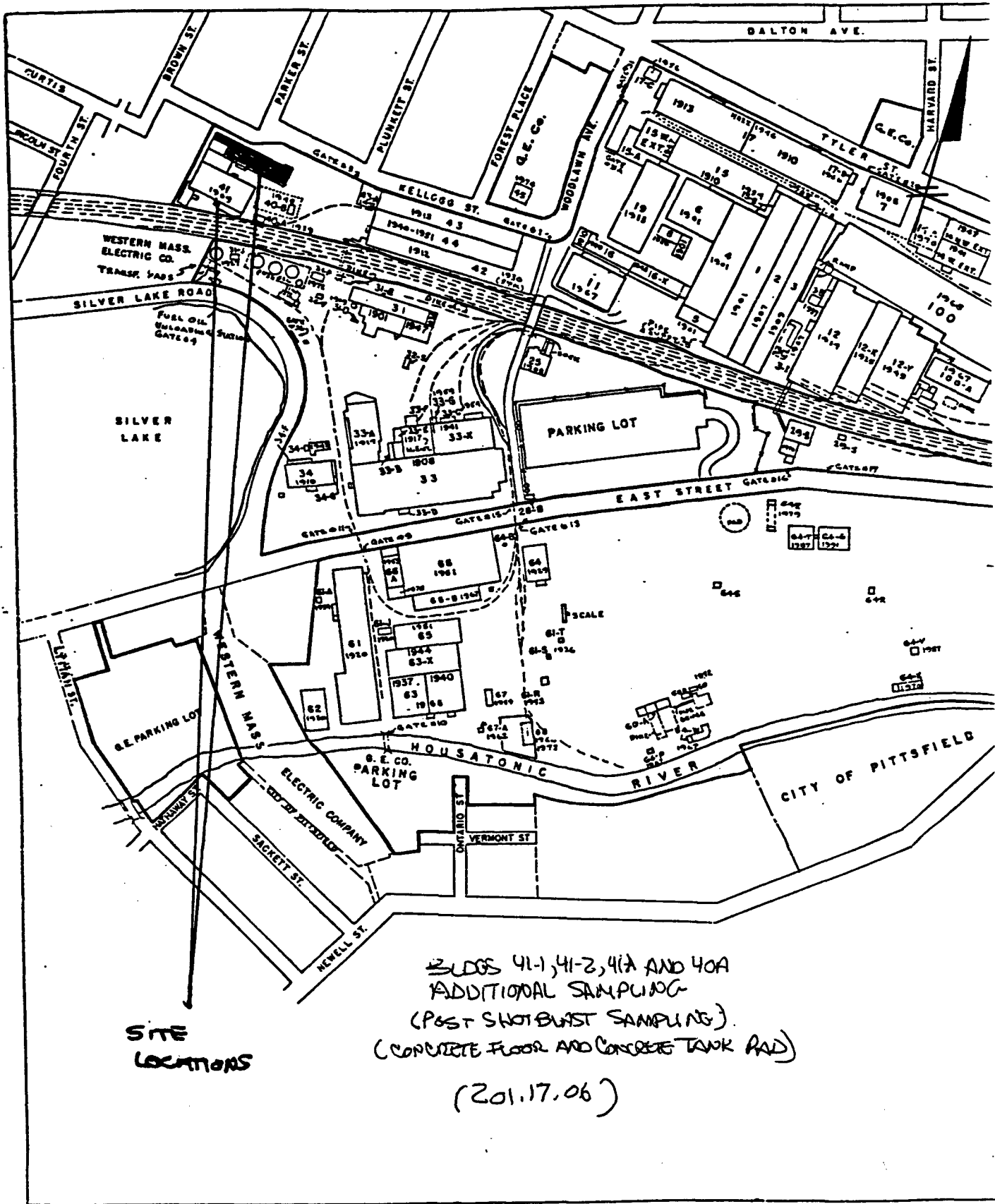
Bldgs 41-1, 41-2, 41A & 40A  
 Additional Sampling  
 (Post Shotblast - Scarifying Sampling)  
 (Concrete Floor and Concrete Tank Pad)

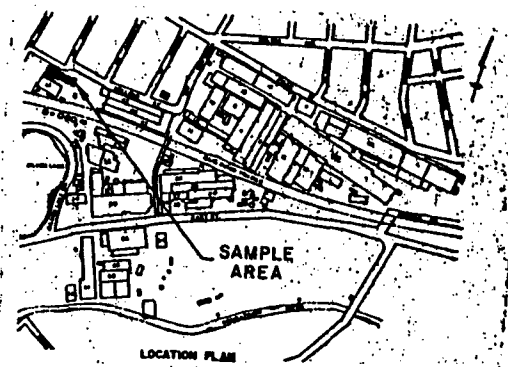
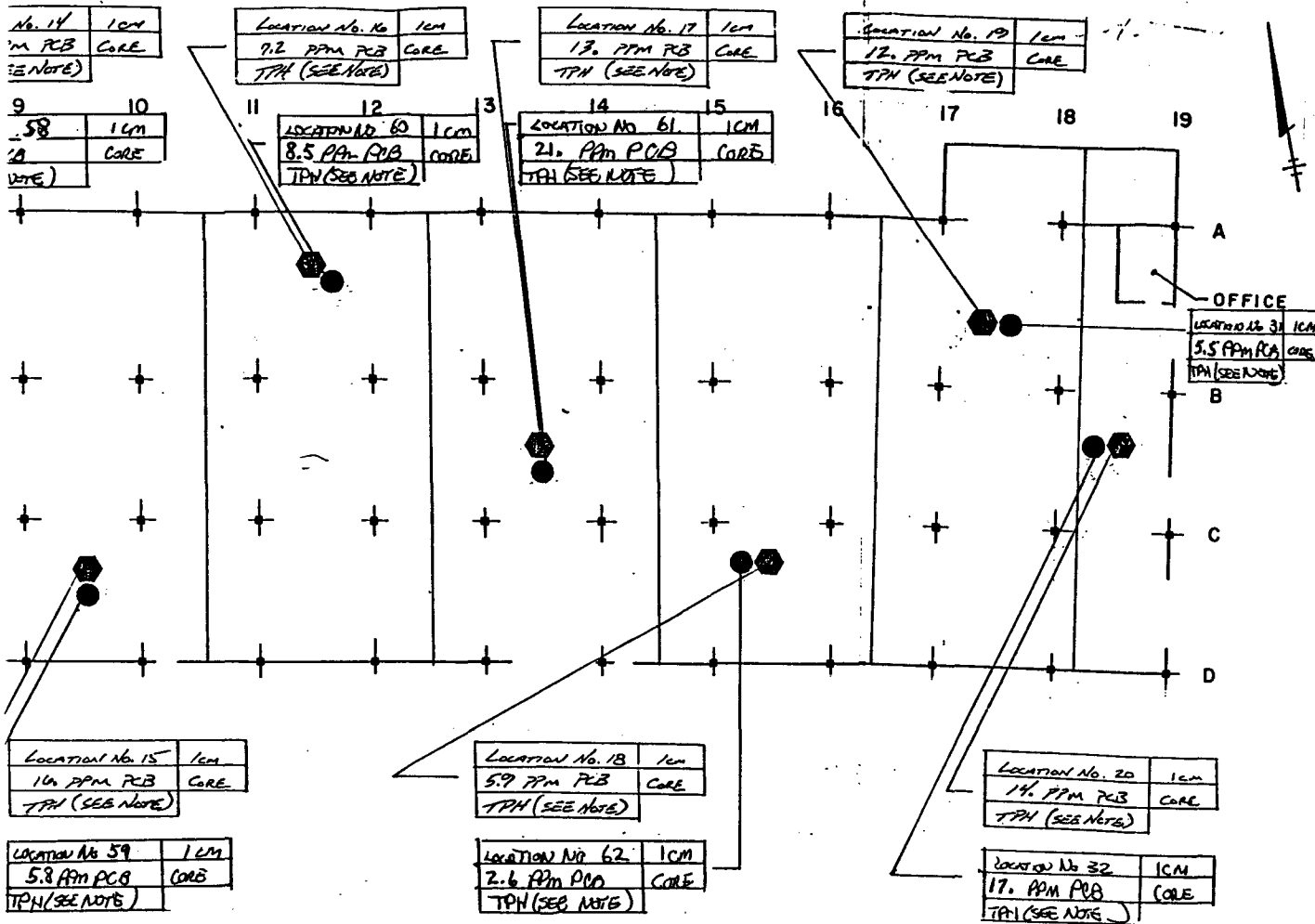
201.17.06

Table 1

LAB ID	DATE SAMPLED	PCB (PPM)	TPH (PPM)	TPH by G.C.F.I.D.	1,1,1 TRICHLOROETHANE	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
<u>BLDG 41A-1 (CONCRETE FLOOR - POST SHOTBLAST - 2ND PASS)</u>										
41A-1-F19	10-20-93	6.0	19000.	NR	NR	53	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
A-1-F20	10-20-93	11.	10000.	NR	NR	54	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
41A-1-F21	10-20-93	7.2	9800.	NR	NR	55	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
A-1-F22	10-20-93	24.	19000.	NR	NR	56	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
41A-1-F23	10-20-93	17.	25000.	SEE OBG LAB REPORT	NR	57	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
41A-1-F24	10-20-93	13.	87000.	SEE OBG LAB REPORT	NR	58	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
A-1-F25	10-20-93	5.8	10000.	NR	NR	59	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
41A-1-F26	10-20-93	8.5	15000.	NR	NR	60	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
A-1-F27	10-20-93	21.	16000.	NR	NR	61	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
41A-1-F28	10-20-93	2.6	12000.	NR	NR	62	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
41A-1-F29	10-20-93	5.5	9800.	NR	NR	31	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
A-1-F30	10-20-93	17.	14000.	NR	NR	32	CONCRETE FLOOR	DISCRETE-CORE	(0-1 cm)	2
<u>BLDG 41-1 (OUTSIDE) (TRICHLOROETHANE TANK PAD - POST SCARIFYING - 1ST PASS)</u>										
41-1-C17	10-22-93	NR	NR	NR	(SEE OBG LAB REPORT)	48	CONCRETE TANK PAD	DISCRETE-CORE	(0-1 cm)	3

Note: Per Jeff Ruebesam (GE) the two (2) samples that were found to have the highest TPH result using Method 418.1 were also analyzed for TPH using the G.C.F.I.D. Method.





LEGEND

- - CONCRETE FLOOR SAMPLE (POST SHOT-BLAST) (1 CM CORE SAMPLE) 1ST PASS APPROX. 13 PPM - TOTAL PCB'S METHOD 8080 REPORTED IN PARTS PER MILLION (PPM)
- - CONCRETE FLOOR SAMPLE (POST SHOT-BLAST) (1 CM CORE SAMPLE) 2ND PASS APPROX. 16



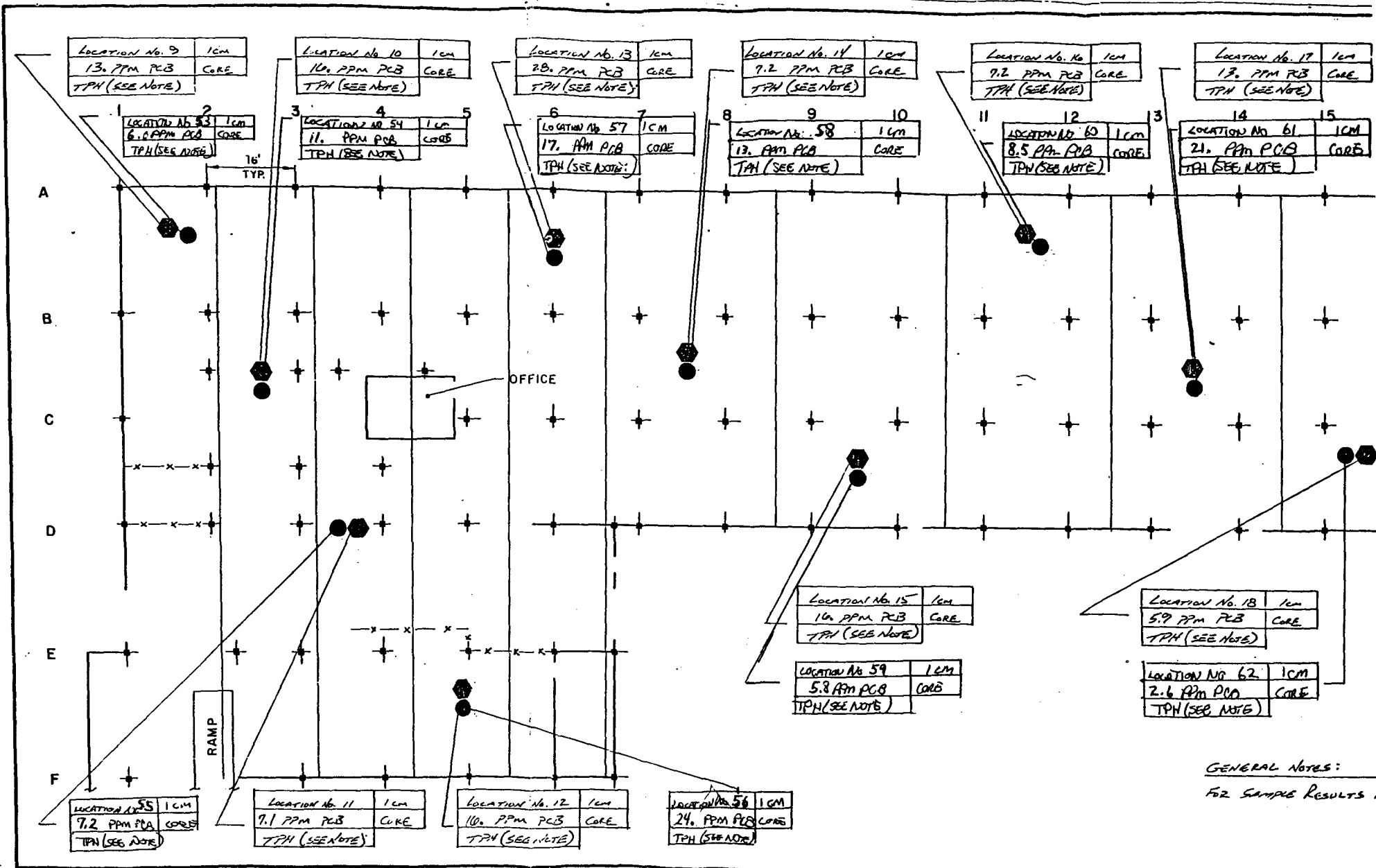
**BLASLAND, BOUCK & LEE**  
ENGINEERS & GEOSCIENTISTS

GENERAL ELECTRIC COMPANY  
BLDG 41-A PITTSFIELD, MASSACHUSETTS  
**ADDITIONAL SAMPLING RESULTS**

BUILDINGS 41-1, 41-2 & 41A  
**ADDITIONAL SAMPLING PROGRAM** | FIGURE 2

(POST SHOTBLAST SAMPLING)  
CONCRETE FLOOR AND CONCRETE TANK PAD  
(201, 17, 06)

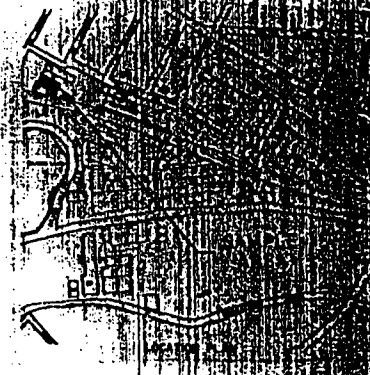
GENERAL NOTES:  
FOR SAMPLE RESULTS NOT FOUND ON MAP, SEE ORG LAB REPORTS



GENERAL NOTES:  
FOR SAMPLE RESULTS N.



FIGURES



BLOBS 41-1 MLZ 41A AND 41B  
 ADDITIONAL SAMPLING  
 (POST SHOTBLAST)  
 (CONCRETE FLOOR AND CONCRETE WALLS)  
 (201.1.206)

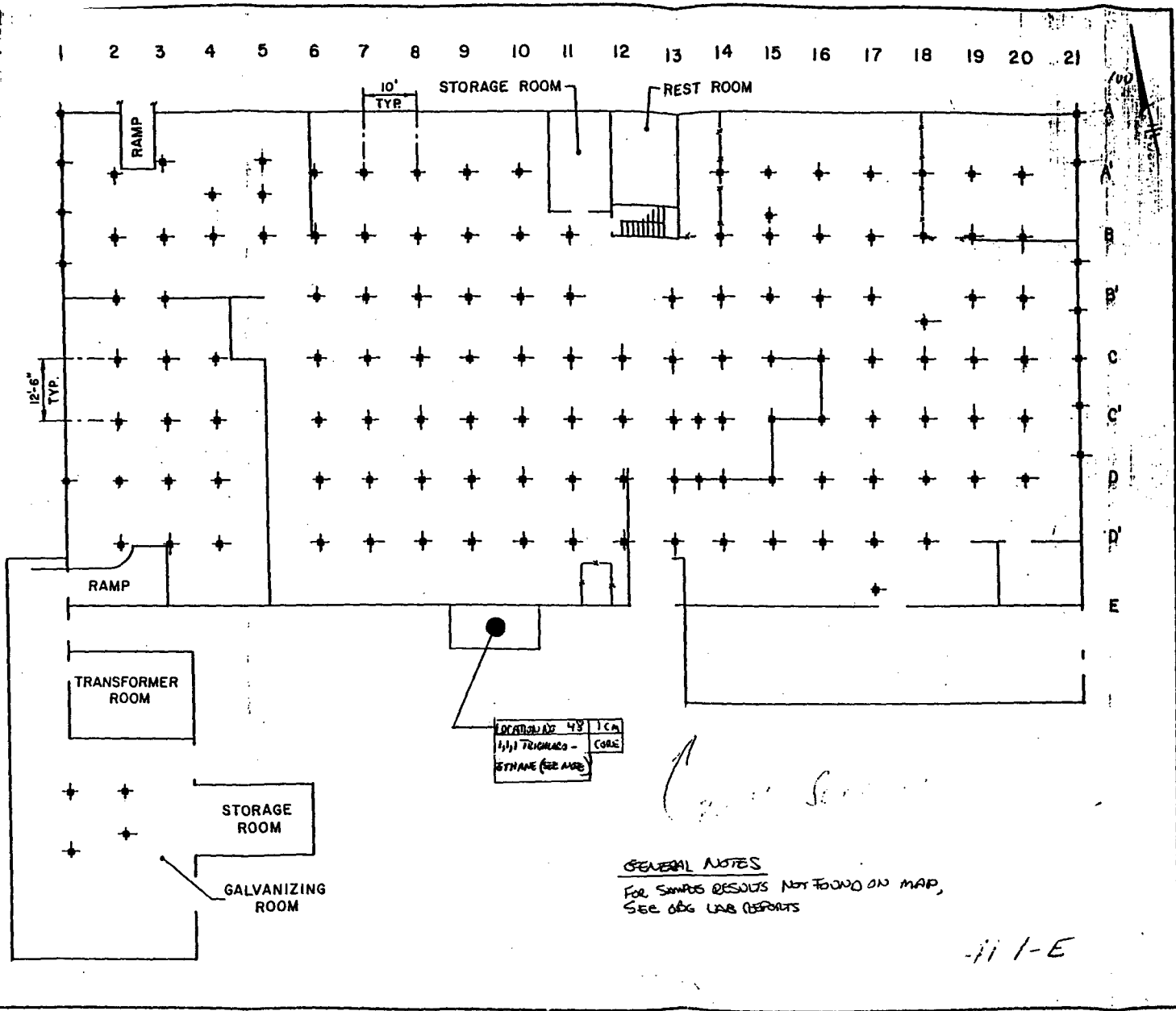
LEGEND

- - CONCRETE FLOOR AND WALLS  
 (POST SHOTBLAST) 10cm (4")  
 (1st PASS APPROX 4/1/81)

GENERAL ELECTRIC COMPANY  
 MANUFACTURING OPERATIONS  
 CONSOLIDATION PROJECT

XX-6

BUILDING 41- FIRST FLOOR



GENERAL NOTES

FOR SAMPLES RESULTS NOT FOUND ON MAP,  
 SEE O&G LAB REPORTS

-111-E

RAV...

**ATTACHMENT 1**



4411

**PRELIMINARY**  
 OCT 25 1993

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 201-17-06  
Bldgs 41-1, 41-2, 41A & 40A Additional Sampling  
 Date Analyzed 10/24-10/25/93 DATE COLLECTED See Below DATE RECEIVED 10/20/93

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
41A-1-F19	10/21/93	10/20/93			6.0	concrete	A
- F20					11		
- F21					7.2		
- F22					24		
- F23					17		
- F24					13		
- F25					5.8		
- F26					8.5		
- F27					21		
- F28					2.6		
- F29					5.5		
- F30					17		
A. Reagent Blank	10/21/93-1:				<1		
Reference Sample	10/21/93-1:				2.8/3 = 93%		
Matrix Spike	41A-1-F30:				2.0/3 = 67%		
Matrix Spike Duplicate:					2.0/3 = 67%		
Precision:					2.0 vs 2.0 = 0% RPD		

Comments:

Certification No.:

Units: mg/kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

2887.026.517

cc: Don + Tami

PACKAGE / SAMPLE SCHEDULE

Thu, Oct 21, 1993  
Project Manager: A C  
Page 1 of 2

PACKAGE

Job No.: 2887.026.517 Client: Bisland & Bouck Engineers, P.C.  
Project: Pittsfield, MA Description: Bldgs. 41-1; 41-2; 41-A; & 40-A Sampling ( B&B: 201.17.06)  
Scheduled: OCT-21 Due: OCT-25  
Package number: 8729 QC Level: 1  
Samples: 8835 - 8846 Number of samples: 12  
Certification: NY034  
Comments: \*\*\*\* 48 HOUR RUSH \*\*\*\* Due Monday! 10-25-93 Per AC!!!!

To: Bruce Collins  
Cc: Bob Job #: 2887.026.517  
Fax#: 413-474-2071  
Pages: 2 From: A. Collins  
DBG LABS (315) 437-0200/463-7554 Fax

SCHEDULED SAMPLES

Sample Number	Group	Parameter	ID	Method	Matrix	Schedule Comments
8835 - 8846	12 (WC)	Total petroleum hydrocarbons	922	EPA 418,1 Mod	Solid	

LIST OF ALL SAMPLES IN PACKAGE:

Sample	Description	Bin	Type	Collected	Received	Due	Sample Log Comments
8835	41A-1-F19	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 19000, TPH
8836	41A-1-F20	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 10000,
8837	41A-1-F21	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 9800,
8838	41A-1-F22	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 19000,
8839	41A-1-F23	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 25000,
8840	41A-1-F24	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 87000,
8841	41A-1-F25	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 10000,
8842	41A-1-F26	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 15000,
8843	41A-1-F27	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 16000,
8844	41A-1-F28	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples! 12000,

mg./Kg original wt.

001/002

PACKAGE / SAMPLE SCHEDULE

Thu, Oct 21, 1993

Project Manager: A C

Page 2 of 2

Job No.: 2887.26.517 Client: Blasland & Bouck Engineers, P.C.

Project: Pittsfield, MA Description: Bldgs. 41-1; 41-2; 41-A; & 40-A Sampling ( B&B#: 201.17.06)

Scheduled: OCT-21 Due: OCT-25

Package number: 8729 QC Level: 1

Samples: S8835 - 8846 Number of samples: 12

Certification: NY034

Comments: \*\*\*\* 48 HOUR RUSH \*\*\*\* Due Monday! 10-25-93 Per AC1111

LIST OF ALL SAMPLES IN PACKAGE:

Sample	Description	Bin	Type	Collected	Received	Due	Sample Log Comments
S8845	41A-1-F29	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples 9800. T.P.H.
S8846	41A-1-F30	91	Grab	OCT-20	OCT-21 10:00	OCT-25	Concrete Dust Samples 14000.



To: BRUCE EULIAN  
 Co: BUB Job #: 2887.026.517  
 Fax#: 413-494-2041  
 Pages: 1 From: JOHN BEESE  
 OBG LABS (315) 437-0200/463-7554 Fax

**PRELIMINARY Laboratory Report**

10888

CLIENT BLASIANO + BOUCK ENGINEERS, P.C.

DESCRIPTION BUS. 41-1; 41-2; 41A; + 40A SHAPING (BYB#: 201.17.06)

MATRIX: SOLID

Date Extracted 11/4/93

DATE COLLECTED 10/28/93

DATE RECEIVED 10/21/93

Date Analyzed 11/8/93

Description

Sample #

Petroleum Analysis:

GASOLINE

MINERAL SPIRITS

#1 FUEL (KEROSENE)

#2 FUEL (DIESEL)

#6 FUEL

LUBRICATING, INSULATING, OR

HYDRAULIC OIL

OTHER

41A-1-F23 41A-F24

58839 58840

22600. 21500.

2490. 2290.

21200. 2720.

21200. 2720.

26000. 23500.

14000. 12000.

1) 1)

The sample(s) was (were) analyzed by gas chromatography with a capillary column and a flame ionization detector. The petroleum detected in the sample(s), if any, was compared to common petroleum products (i.e., gasoline, mineral spirits, kerosene, fuel oils and lubricating oils, etc.)

COMMENTS: 1) Unrecognizable hydrocarbon response in the LUBRICATING OIL range. Estimated concentration determined using a 10W30 standard.

Comments:

Certification No.: NY034

Units: mg/Kg ORIGINAL wt (ppm)

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



LABORATORIES, INC.

To: Jim Hasset  
Co: B+B Job #: 2887.026.517  
Fax#: 413-494-2041  
Pages: 1 From: A. Crescenzi  
OBG LABS (315)437-0200/463-7554 Fax

# Volatile Organics Method 8240

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

DESCRIPTION Pittsfield, MA-Bldgs. 41-1, 41-2, 41A & 40A Additional Sampling B & B #201.17.06  
41-1-C17 MATRIX: Solid

SAMPLE NO. S9001 DATE COLLECTED 10-22-93 DATE REC'D. 10-22-93 DATE ANALYZED 10-28-93

Chloromethane	<10.	1,2-Dichloropropane	<5.
Bromomethane	↓	cis-1,3-Dichloropropene	↓
Vinyl chloride	↓	Trichloroethene	↓
Chloroethane	↓	Dibromochloromethane	↓
Methylene chloride	<5.	1,1,2-Trichloroethane	↓
Acetone	36.	Benzene	↓
Carbon disulfide	<5.	trans-1,3-Dichloropropene	↓
1,1-Dichloroethene	↓	Bromoform	↓
1,1-Dichloroethane	↓	4-Methyl-2-pentanone	<10.
1,2-Dichloroethene (total)	↓	2-Hexanone	<10.
Chloroform	↓	Tetrachloroethene	<5.
1,2-Dichloroethane	↓	1,1,2,2-Tetrachloroethane	↓
2-Butanone	<10.	Toluene	↓
1,1,1-Trichloroethane	6.	Chlorobenzene	↓
Carbon tetrachloride	<5.	Ethylbenzene	↓
Vinyl acetate	<10.	Styrene	↓
Bromodichloromethane	<5.	Xylene (total)	↓
PERCENT TOTAL SOLIDS	96.		

Comments:

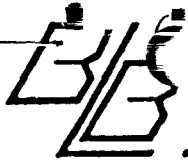
Methodology: EPA Target Compound List By 8240 SW-846  
November 1986, 3rd Edition

Certification No.: NY034

Units: µg/kg dry weight

PRELIMINARY  
NOV 29 1993

Authorized:   
Date: November 9, 1993



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

**CHAIN OF CUSTODY RECORD**

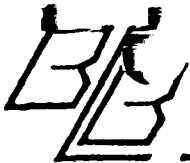
PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	REMARKS	
20-17-06		DN65411, 412, 410, 408 ADDITIONAL SAMPLING									
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB EQUIPMENT	SAMPLE TYPE					
						SOLID	MPE	WATER			
41A-1-F19		10/21/93	1030		X				1	X	Pipes Method 5050
41A-1-F20			1045		X				1	X	
41A-1-F21			1055		X				1	X	
41A-1-F22			1105		X				1	X	
41A-1-F23			1115		X				1	X	
41A-1-F24			1125		X				1	X	
41A-1-F25			1140		X				1	X	
41A-1-F26			1150		X				1	X	
41A-1-F27			1207		X				1	X	
41A-1-F28			1210		X				1	X	
41A-1-F29			1220		X				1	X	
41A-1-F30		10/21/93	1230		X				1	X	

SAMPLED BY: (SIGNATURE) <i>[Signature]</i>	DATE/TIME 10/21/93 1230	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE/TIME 10/21/93 1330	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 10/20/93 1330	REMARKS DELIVERED TO FRIESTEN 056 LAB disposed of by lab 11/16/93 <i>[Signature]</i>	







**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

**CHAIN OF CUSTODY RECORD**

PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">                     1,1,1-Trichloroethane                 </div>				REMARKS									
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE																	
						SOLID	WIPE	WATER															
201-17-06	B111-541-141-341A-10A Adh. ...																						
411011		6-23-03	10:11			X																	1) 8oz GLASS JAR
SAMPLED BY: (SIGNATURE)		DATE/TIME		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 BY: (SIGNATURE)									
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)				DATE/TIME		REMARKS													
										DELIVERED TO SYRACUSE ORG 06/23/03													

APPENDIX J, SECTION C-13

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

TO: Files

DATE: December 28, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(GE Drum# 42113 For Profile Approval)

INITIATOR: Aimee Cole (GE)

DATE: 12-13-93

LOCATION: Bldg 78

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Shot Blast Residue

PURPOSE: To collect a sample for GE to determine the proper disposal method for the Shot Blast Residue that was placed into GE Drum# 42113 (see attached letter from Aimee Cole (GE) to Bruce Eulian (B&B) dated 12-09-93). The shot blast is from the shot blasting of the floor in Bldg 41-1. The drum is located in Bldg 78.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE), (see attached sample request letters dated 12-09-93).

1.) One (1) discrete-grab sample of the Shot Blast Residue that is in GE Drum# 42113 (from Bldg 41-1) is to be sampled and analyzed for Profile Approval (Profile #T07699).

2.) The sample is to be relinquished to Joe Bujak (Zorex) for transportation to Clean Harbors, Inc. (Albany, N.Y.) for profile analysis.

agp

December 9, 1993

To: B. Eulian - B&B

From: A. Cole

Re: Profile Approval Sample

Please take 2 1 quart size samples of each of the following for profile approval. This extra amount of sample is required in addition to the samples we have already sent to Clean Harbors. These drums are located at bldg. 78.

<u>Profile Number</u>	<u>Orange ID</u>	<u>Material</u>
T07683	43413	TRENCH SLUDGE/RESIDUE FROM BLDG. 40A.
T07699	42113	SHOT BLAST RESIDUE

Please charge this sampling to the 40's demolition.

BLASLAND AND BOUCK ENGINEERS P.C.

DELIVERED TO  
GRANT BOWMAN (GE)  
12-30-93

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling  
(GE Drum# 42113 For Profile Approval)

Date: December 28, 1993  
File No: 201.17.06  
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on 12-13-93 on the shot blast residue that was generated during the shot blasting of the floor in Bldg 41-1. The shot blast residue was placed into GE Drum #42113 and transported to Bldg 78.

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

- One (1) discrete-grab sample of the Shot Blast Residue was collected from GE drum #42113 and analyzed for Profile Approval (Profile #T07699).

Note: The sample was collected using a 2" O.D. piece of Lexan tube. The sample was relinquished to Joe Bujak (Zorex) for transportation to Clean Harbors, Inc. (Albany, N.Y.) for profile analysis.

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). Sampling was performed for Profile Approval, therefore, no analytical report will be provided .

agp

Bldgs 41-1, 41-2, 41A and 40A  
(Additional Sampling)  
(GE Drum #42113 For Profile Approval)  
(201.17.06)

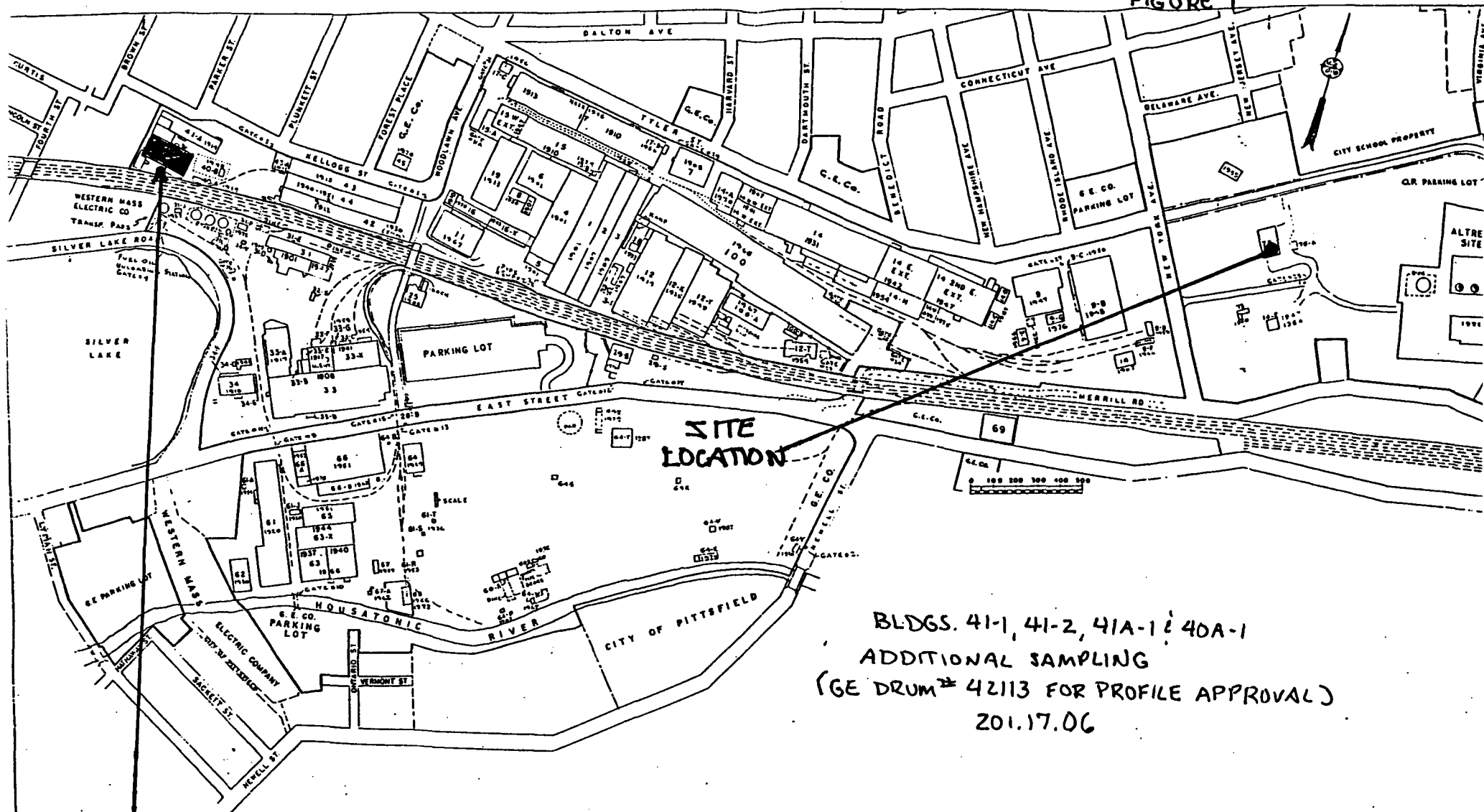
Table 1

LAB ID	DATE SAMPLED	SAMPLE LOCATION GE DRUM#	PROFILE NUMBER	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
78-T07699-C1-R1	12-13-93	42113	T07699	SHOT BLAST RESIDUE	DISCRETE-GRAB	0"-30"	2

NOTE: Sample was collected using a 2" O.D. piece of Lexan tube.  
The sample was relinquished to Joe Bujak (Zorex) for transportation  
to Clean Harbors, Inc. (Albany, N.Y.) for profile analysis.

agp


FIGURE 1



SITE LOCATION

BLDGS. 41-1, 41-2, 41A-1 & 40A-1  
 ADDITIONAL SAMPLING  
 (GE DRUM # 42113 FOR PROFILE APPROVAL)  
 201.17.06

ORIGIN OF  
 GE DRUM #  
 42113

PITTSFIELD WORK  
  
 GROUND PLAN  
 SHEET-1  
 CORRECTED TO JAN. 1, 1991  
 SCALE 1" = 200' DWG NO. 66  
 APPROVED *[Signature]* 1/1/91



121'-0"

BLDG.

BALCONY

46'-6"

20'-0"

11'-0"

57'-10"

64'-10"

50'-2"

17'-6"

70'-2"

19'-4"

30'-2"

25'-6"  
25'-0"  
25'-6"

20'-6" 20'-0" 30'-0" 20'-0" 30'-6"

BLDGS. 41-1, 41-2, 41A-1 & 40A-1

LEGEND

- - 55 GAL. DRUM
- - SAMPLE LOCATION

NOTES

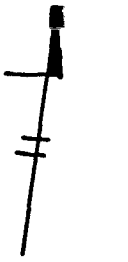
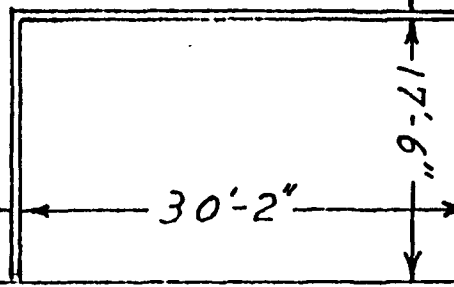
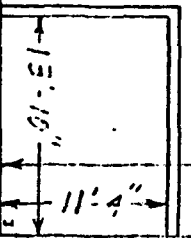
DRUM WAS SAMPLED FOR PROFILE APPROVAL PROFILE# 157699 ONLY

ADDITIONAL SAMPLING

(GE DRUM# 42113 FOR PROFILE APPROVAL)

201.17.06

GE DRUM#  
LOC. 42113





14:56 No. 009 P. 03  
JUN 13 '94



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

121646

**CHAIN OF CUSTODY RECORD**

PROJECT NO.		PROJECT NAME							NO. OF CONTAINERS	PROFILE APPROVAL ONLY	REMARKS	
20617.06		BLDG. 41-1 41-2 41A-1 42A-1 ADDITIONAL SAMPLING										
		SHOT BLAST RESIDUE ADDITIONAL SAMPLING (FOR PROFILE APPROVAL)										
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE TYPE						
						SOLID	WIPE	WATER				
78-TC7699- (1-B)		12/14/93	1150		X	X			1	X		
												FOR PROFILE APPROVAL ONLY
												PROFILE # TO 7699
												X & GLASSWARE FOR SAMPLE WAS SUPPLIED BY CLEAN HARBORS - ALBANY, N.Y.
SAMPLED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		DATE/TIME	RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			
<i>[Signature]</i>		12/14/93 1150	<i>[Signature]</i>		12/14/93 1:00 PM	<i>[Signature]</i>		12/14/93 4:15 PM	<i>[Signature]</i>			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)		DATE/TIME	RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED BY: (SIGNATURE)			
<i>[Signature]</i>		12/15/93 10:00 AM	<i>[Signature]</i>		12/17/93 11:00 AM	<i>[Signature]</i>						
RELINQUISHED BY: (SIGNATURE)		DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME	REMARKS						
			<i>[Signature]</i>			RELINQUISHED TO JOE BUTAK (ZOREN CORP.) FOR DELIVERY TO CLEAN HARBORS ALBANY, N.Y.						

ID:

APPENDIX J, SECTION C-14

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Bruce Eulian  
Re: Bldg.41-1 Transformer Spill Sampling (3rd Round)

Date: 07/16/90  
File No: 101-51-27  
cc: Grant Bowman (GE)  
Jeff Ruebesam (GE)

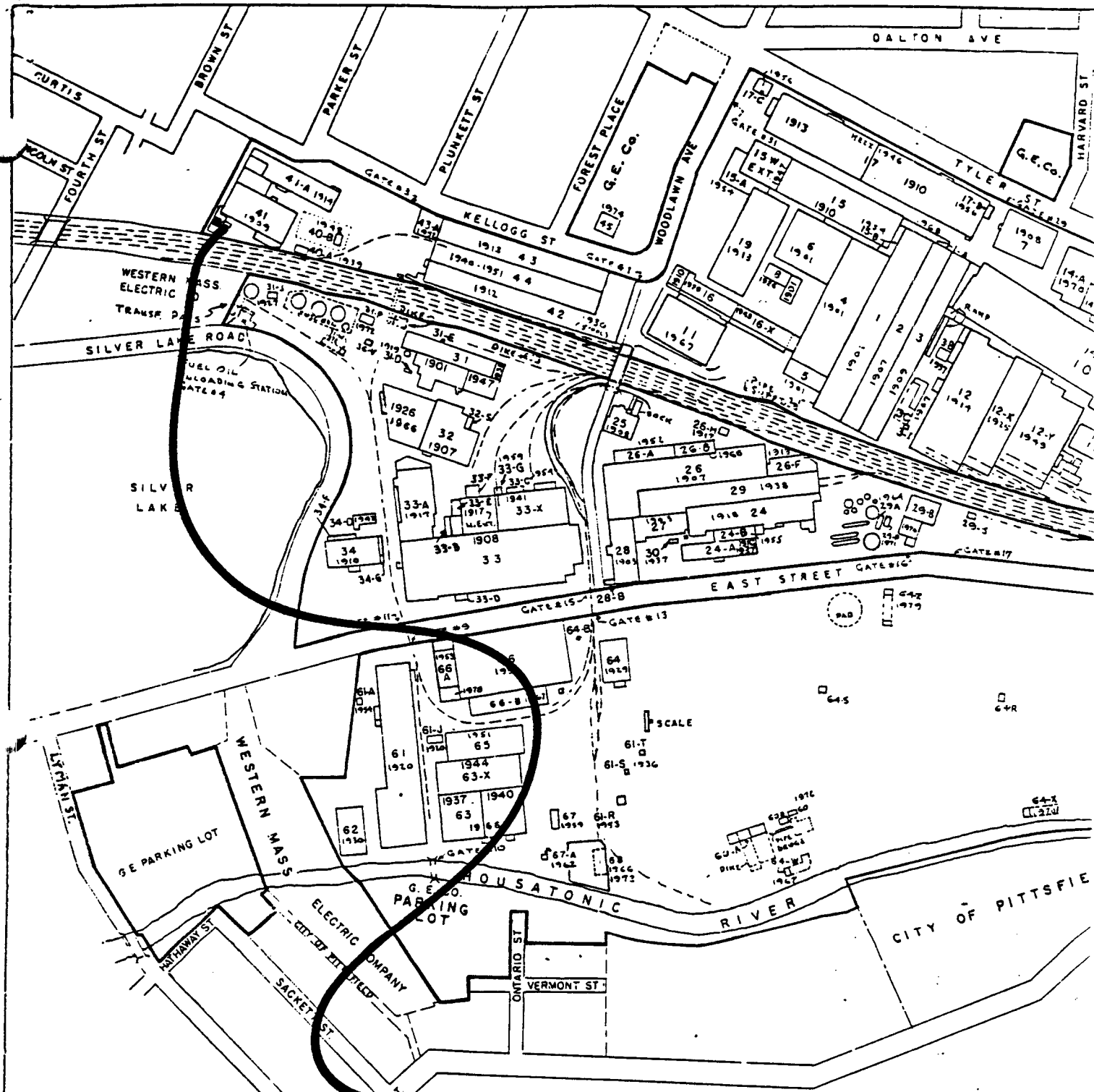
The following is a summary of the sample results for the PCB sampling program conducted at Bldg.41-1 on 07/03/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by GGG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE MATERIAL	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DEPTH
41-1-C66	120.0	SOIL	7	DISCRETE-GRAB	0"-2"
41-1-C67	55.0	SOIL	8	DISCRETE-GRAB	0"-2"
41-1-C68	47.0	SOIL	9	DISCRETE-GRAB	0"-2"

bee





# SITE LOCATION

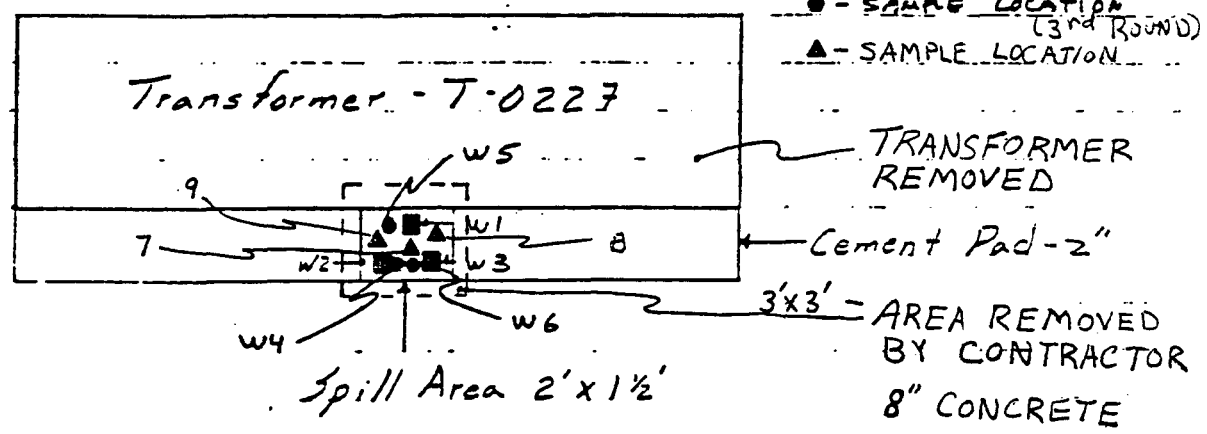
PROJECT	(3 <sup>rd</sup> ROUND)	PRO. NO.	BY	DATE	SHEET
Transformer - T-0227 - Post Clean-up Soil Samples		101-51-27	TPM	7-3-90	



Building 41

Scale: 1" = 4'

- - SAMPLE LOCATION (1<sup>ST</sup> ROUND)
- - SAMPLE LOCATION (2<sup>ND</sup> ROUND)
- ▲ - SAMPLE LOCATION (3<sup>RD</sup> ROUND)





APPENDIX J, SECTION C-15

GRANT BOWMAN  
(GE) 9-24-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Bruce Eulian  
Re: Bldg.41-1 Transformer Spill Sampling (4th Round)

Date: 08/03/90  
File No: 101-51-27  
cc: Grant Bowman (GE)  
Jeff Ruebensan (GE)

The following is a summary of the sample results for the PCB sampling program conducted in Bldg. 41-1 on 07/31/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OEG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
41-1-C78	<2.0	10	SOIL	DISCRETE-GRAB	2'



1802  
PRELIMINARY

# Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-51-27

Date Analyzed 8/1/90 DATE COLLECTED See Below DATE RECEIVED 7/31/90

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS	PCB	COMMENTS	QC RESULTS
41-1-678	7/31/90	7/31/90	<1	94.5	<2	Soil	

Comments:

Certification No.:

Units: mg/kg dry wt.

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

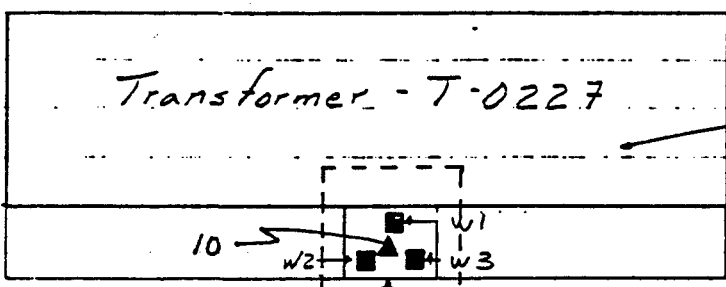
PROJECT	(4 <sup>th</sup> ROUND)	PROJ. NO.	BY	DATE	SHEET
BLDG. 41-1 TRANSFORMER SPILL SAMPLING		101-51-27	TPM	7/31/90	



Building 41

Scale: 1" = 4'

- - SAMPLE LOCATION (1<sup>st</sup> ROUND)
- ▲ - SAMPLE LOCATION (4<sup>th</sup> ROUND)



TRANSFORMER REMOVED

Cement Pad

Spill Area 2' x 1 1/2'

3' x 3' AREA REMOVED TO APPROX. 2' DEPT.



APPENDIX J, SECTION C-16

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

TO: Files

DATE: August 9, 1993

FROM: Bruce Eulian

FILE NO: 201.17.06

RE: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling (UST)

INITIATOR: Ross Clark (GE)

DATE: 7-27-93

LOCATION: Bldg 41A (outside eastend) - (Photos available in Piitsfield file)

CONTACT PERSON: Ross Clark (GE)

EXT: 2091

ITEM DESCRIPTION:

1.) Soil

2.) Concrete

PURPOSE: To collect samples for GE to determine the proper disposal method of the soil and concrete that was excavated during the investigation to locate a UST outside of Bldg 41A (eastend).

NOTES: The following sampling program was implemented at the request of Ross Clark (GE), (see attached sample request letter dated 7-27-93):

1.) Three (3) discrete-grab samples of soil are to be sampled and analyzed for PCB's (Method 8080) and TPH (Method 418.1).

2.) Two (2) discrete full-core samples of concrete are to be sampled and analyzed for PCB's (Method 8080).

3.) The soil samples are to be screened for Volatile Organic Compunds with a calibrated PID meter.

4.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be analyzed for VOC's (Method 8240) and 1,2,4 Trichlorobenzene (Method 8120).

5.) G.E. requests that the PCB samples collected be analyzed at the Pittsfield OBG Laboratory and the TPH samples collected be analyzed at the Syracuse OBG Laboratory. Also, if the PID readings are greater than or equal to 10 PPM the VOC's and 1,2,4 Trichlorobenzene samples collected are to be analyzed at the Syracuse OBG Laboratory.

jjh

RECEIVED 7-27-93

FAX

July 27, 1993

To: B. Eulian - B & B

From: A. Cole - GEC *AC*

41A ADDITIONAL

SAMPLING  
BOOK

201.17.06

Re: Sampling of excavated dirt and concrete

Ross Clark has requested the sampling of concrete and dirt generated from the excavation to locate an underground storage tank near bldg. 41A.

He estimates 4 - 5 yards of each material. Please sample the dirt for PCB method 8080, (2 Or 3 samples) and take a headspace PID. If the PID hits above 10 then sample for VOC's method 8240 and 1,2,4 trichlorobenzene method 8120. The soil should also be sampled for TPH, Standard method 503B/E or EPA method 418.1. Please sample the concrete for PCB only, taking 2 or 3 core samples.

This job should be charged to PO # 3200493 - the demolition of bldg. 41  
These samples may be sent to O B & G in Syracuse for analysis.



BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling (UST)

Date: August 9, 1993  
File No: 201.17.06  
cc: Jeff Ruebesam (GE)  
Ross Clark (GE)  
Rich Price (B&B)

The following is a summary of the sampling program conducted on 7-28-93 on the soil and concrete that was excavated during the investigation to locate a UST outside of Bldg 41A (eastend).

At the request of Ross Clark (GE), the following sampling program was implemented:

- Three (3) discrete-grab samples of soil were collected and analyzed for PCB's (Method 8080) and TPH (Method 418.1).
- Two (2) discrete full core samples concrete were collected and analyzed for PCB's (Method 8080).

The soil samples were screened with a calibrated PID meter and were found to be <10 PPM, therefore, the samples were not analyzed for VOC's (Method 8240) or 1,2,4 Trichlorobenzene (Method 8120).

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 (Attachment 1) have also been included. In addition, a calibration form (Attachment 2) and the soil screening results (Attachment 3) have been provided.

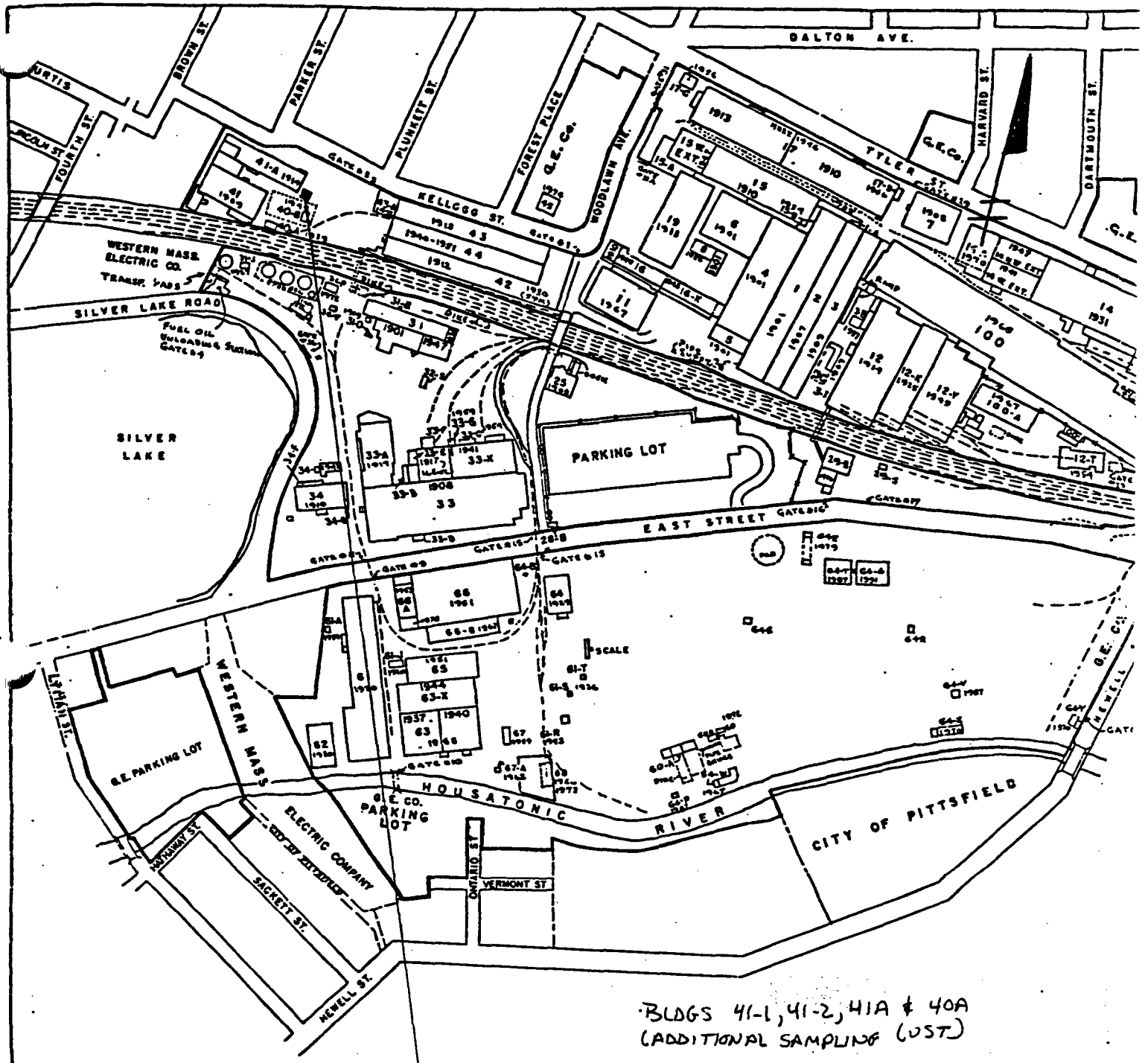
Bldgs 41-1, 41-2, 41A & 40A  
Additional Sampling (UST)

201.17.06

Table 1

SB ID	DATE SAMPLED	TOTAL PCB PPM	TOTAL TPH PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
41A-UST-C1	7-28-93	1.5	230.	26	SOIL	DISCRETE-GRAB	(0-1')	2
41A-UST-C2	7-28-93	<1.0	280.	27	SOIL	DISCRETE-GRAB	(1-2')	2
41A-UST-C3	7-28-93	<1.0	50.	28	SOIL	DISCRETE-GRAB	(2-3')	2
41A-UST-C4	7-28-93	<1.0	NR	29	CONCRETE	DISCRETE-(FULL-CORE)	(0-5")	2
41A-UST-C5	7-28-93	<1.0	NR	30	CONCRETE	DISCRETE-(FULL-CORE)	(0-10")	2

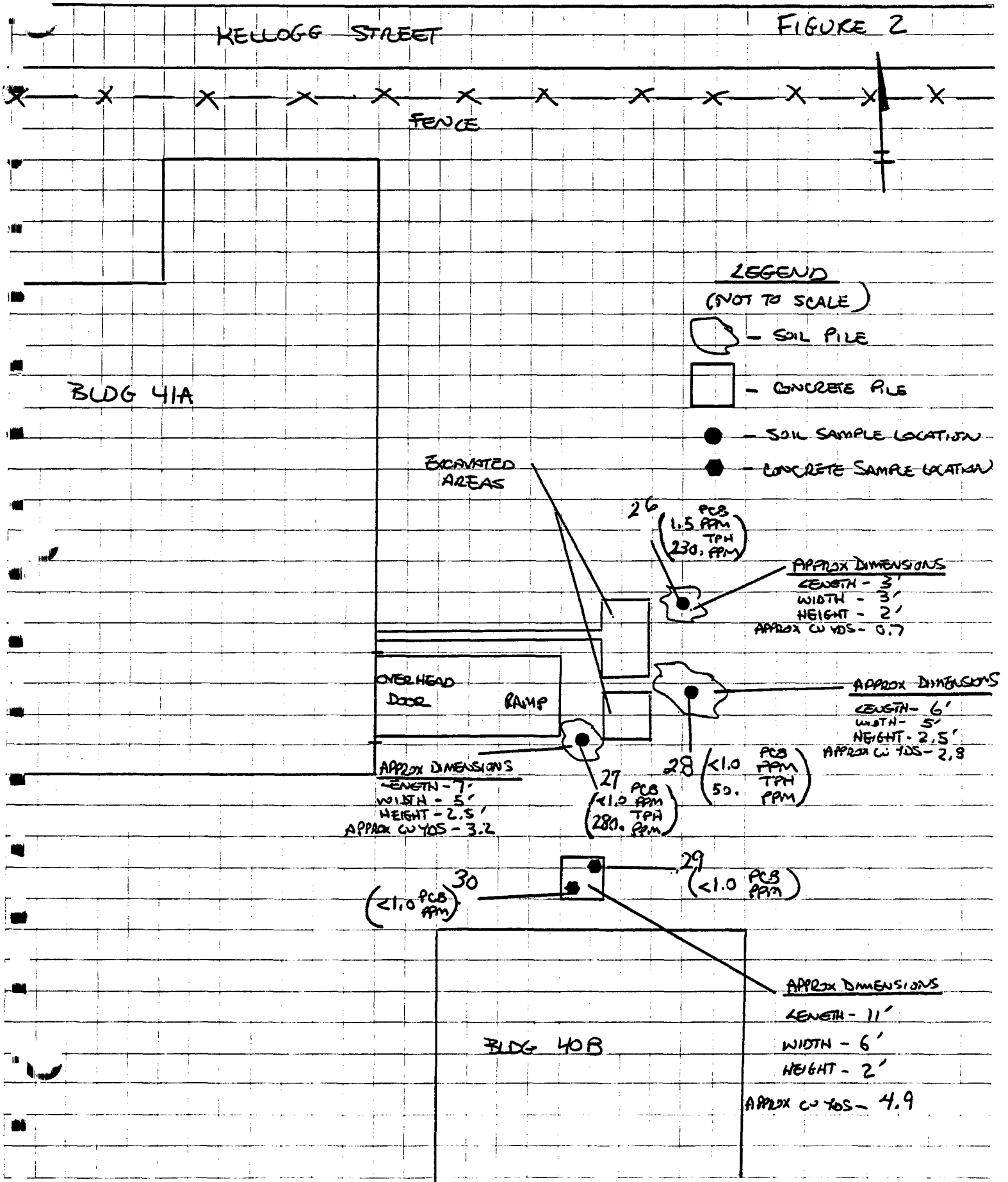
FIGURE 1



• BLDGS 41-1, 41-2, 41A & 40A  
(ADDITIONAL SAMPLING (UST))

(201.17.06)

SITE  
LOCATION



**ATTACHMENT 1**

4317



PRELIMINARY  
AUG 5 1993

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 201-17-06  
Bldgs 41-1, 41-2, 41A & 40A Additional Sampling  
 Date Analyzed 7/30/93 DATE COLLECTED See Below DATE RECEIVED 7/29/93

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS /.	PCB	COMMENTS	QC RESULTS
41A-VST-C1	7/29-30/93	7/28/93	1.4	91	15	soil	A
C2			<1 (.156)	93	<1	↓	↓
C3			<1 (.147)	91	<1	↓	↓
C4					<1	concrete	B
C5					<1	↓	↓
A. B. Reagent Blank 072993-1:						<1	
Reference Sample 072993-1:						1.1/1 = 110%	
A. Matrix Spike 41A-VST-C2:						93/1 = 93%	
Matrix Spike Duplicate:						86/1 = 86%	
Precision:						.93 vs .86 = 7.8% RPD	
B Matrix Spike 41A-VST-C5:						2.8/3 = 93%	
Matrix Spike Duplicate:						2.1/3 = 70%	
Precision:						2.8 vs 2.1 = 2.9% RPD	

Comments:

Certification No.:

Units: mg/kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

2887.026

8/6

PACKAGE / SAMPLE SCHEDULE

Thu, Jul 29, 1993  
Project Manager: A C  
Page 1 of 1

To: Jim Hesse #  
Job #: 2887.026.517  
Coi: BTR  
Fax#: 413.494.2041  
Pager: 1 From: M Yates  
DBG LABS (315) 437-0200/463-7554 Fax

PACKAGE

Job No.: 2887.26.517 Client: Blasland & Bouck Engineers, P.C.  
Project: Pittsfield, MA Description: Bldgs. 41-1; 41-2; 41A's; & 40A Sampling. BR#: 201.17.06  
Scheduled: JUL-29 Due: AUG-12  
Package number: 7354 QC Level: 1  
Samples: S5026 - 5028 Number of samples: 3  
Certification: NY034  
Comments: \_\_\_\_\_

SCHEDULED SAMPLES

Sample Number	Group	Parameter	ID	Method	Matrix	Comments
S5026 - 5028	3 (MC)	% Total Solids	828	S.M. 16 209F	Solid	
S5026 - 5028	3 (MC)	Total petroleum hydrocarbons	922	EPA 418.1 Mod	Solid	

LIST OF ALL SAMPLES IN PACKAGE:

Sample	Description	Bin	Type	Collected	Received	Due	T.P.H.	P.C.T.S.	Comments
S5026	41A-UST-C1	89	Grab	JUL-28	JUL-29 09:30	AUG-12	230.	92.	
S5027	41A-UST-C2	89	Grab	JUL-28	JUL-29 09:30	AUG-12	280.	95.	
S5028	41A-UST-C3	89	Grab	JUL-28	JUL-29 09:30	AUG-12	50.	92.	

mg./kg Dry wt.

**ATTACHMENT 2**



HNU CALIBRATION

BLDGS 41-1, 41-2, 41A AND 40A  
ADDITIONAL SAMPLING  
(201.17.06)

DATE: 7-28-93  
OPERATOR: Tom BARNES

HNU SERIAL NO: A70129  
eV OF PROBE: 10,2

CALIBRATION GAS:                    9.8 span setting @ 57 ppm

INITIAL READING:                    9.8 span setting @ 50 ppm

ADJUSTED SETTING:                    8.94 span setting @ 57 ppm

NOTES:

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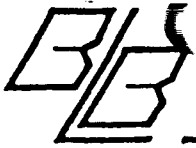
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**ATTACHMENT 3**



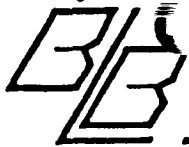


**BLASLAND & BOUCK ENGINEERS, P.C.**

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

**CHAIN OF CUSTODY RECORD**

PROJECT NO.		PROJECT NAME					NO. OF CONTAINERS	TEST METHOD					REMARKS		
201.17.06		30065 41-1, 41-2, 41A AND 40A ADDITIONAL SAMPLING													
LAB ID	CUSTODY-TAPE NUMBER	DATE	TIME	COMP.	GRAB	SOLID			WIPE	WATER					
41A-UST-C1	(SOIL)	7-28-93	1600		X	X			1	X					
41A-UST-C2	(SOIL)	7-28-93	1615		X	X			1	X					
41A-UST-C3	(SOIL)	7-28-93	1630		X	X			1	X					
41A-UST-C4	(CONCRETE)	7-28-93	1645		X	X			1	X					
41A-UST-C5	(CONCRETE)	7-28-93	1700		X	X			1	X					
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				
<i>James J. Lassett</i>		7-28-93 1700					<i>James J. Lassett</i>		7-29-93 0810						
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						
				<i>Kedra V. Lawrence</i>			7/29/93 0810		DELIVERED TO PITTSFIELD ORG. LAB						



**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	TAP METHOD 418.1					REMARKS		
201.17.06		BLOGS 41-1, 41-2, 41A AND 40A ADDITIONAL SAMPLING													
LAB ID	CUSTODY-TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE									
						SOLID SOIL	WIPE	WATER							
41A-VST-C1		7-28-93	1600		X	X			1	X					
41A-VST-C2		7-28-93	1615		X	X			1	X					
41A-VST-C3		7-28-93	1630		X	X			1	X					
SAMPLED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)			
		7-28-93 1630								7-28-93 1730					
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# 604 5928840					

APPENDIX J, SECTION C-17

DELIVERED TO  
GRANT BOWMAN(GE)  
10-2-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Bruce Eulian  
Re: Bldg 43-1 Waterline Excavation Sampling

Date: 9-30-91  
File No: 101-75-22  
cc: Grant Bowman (GE)  
Ross Clark (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside Bldg 43-1 on 9-23-91. 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
43-1-WL-C1	4.2	1	SOIL	DISCRETE-GRAB	0"-12"
43-1-WL-C2	1.7	2	SOIL	DISCRETE-GRAB	12"-24"
43-1-WL-C3	4.5	3	SOIL	DISCRETE-GRAB	24"-36"
43-1-WL-C4	<1.0	4	SOIL	DISCRETE-GRAB	0"-12"
43-1-WL-C5	1.6	5	SOIL	DISCRETE-GRAB	12"-24"
43-1-WL-C6	<1.0	6	SOIL	DISCRETE-GRAB	24"-36"
43-1-WL-C7	<1.0	7	SOIL	DISCRETE-GRAB	0"-12"
43-1-WL-C8	<1.0	8	SOIL	DISCRETE-GRAB	12"-24"
43-1-WL-C9	1.1	9	SOIL	DISCRETE-GRAB	24"-36"
43-1-WL-C10	<1.0	10	SOIL	DISCRETE-GRAB	0"-12"
43-1-WL-C11	15.0	11	SOIL	DISCRETE-GRAB	0"-24"
43-1-WL-C12	4.5	12	CONCRETE	DISCRETE-CORE	0"-3"
43-1-WL-C13	4.5	13	CONCRETE	DISCRETE-CORE	0"-3"
43-1-WL-C14	3.6	14	CONCRETE	DISCRETE-CORE	0"-3"



# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 101-75-22

Date Analyzed 9-24-91 → 9-25-91 DATE COLLECTED See Below DATE RECEIVED 9-23-91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS (%)	PCB	COMMENTS	QC RESULTS
43-1-WL-C1	9-24-91	9-23-91	39	93	4.2	Soil	A
-C2			1.6	94	1.7		
-C3			4.4	97	4.5		
-C4			<1	95	<1		
-C5			1.6	97	1.6		
-C6			<1	97	<1		
-C7			<1	95	<1		
-C8			<1	95	<1		
-C9			1.0	95	1.1		
-C10			<1	94	<1		
-C11			14	95	15		
-C12			4.5			Concrete	
-C13			4.5				
-C14			3.6				

A) Reagent Blank 1:  
 Matrix Spike 43-1-WL-C5:  $2.67/3.33 = 80\%$   
 Matrix Spike Duplicate:  $2.69/3.33 = 81\%$   
 Precision:  $RPD \ 2.67, 2.69 = < 1\%$

Comments:

Certification No.:

Units:  $\mu\text{g/g} = \text{PPM}$

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_





HNU CALIBRATION  
BLDG. 43-1 WATERLINE EXCAVATION SAMPLING  
101.45.22

DATE: 9-23-91  
OPERATOR: Ki Peart

HNU SERIAL NO: A70129  
eV OF PROBE: 10.2

CALIBRATION GAS:                    9.80 span setting @ 55 ppm

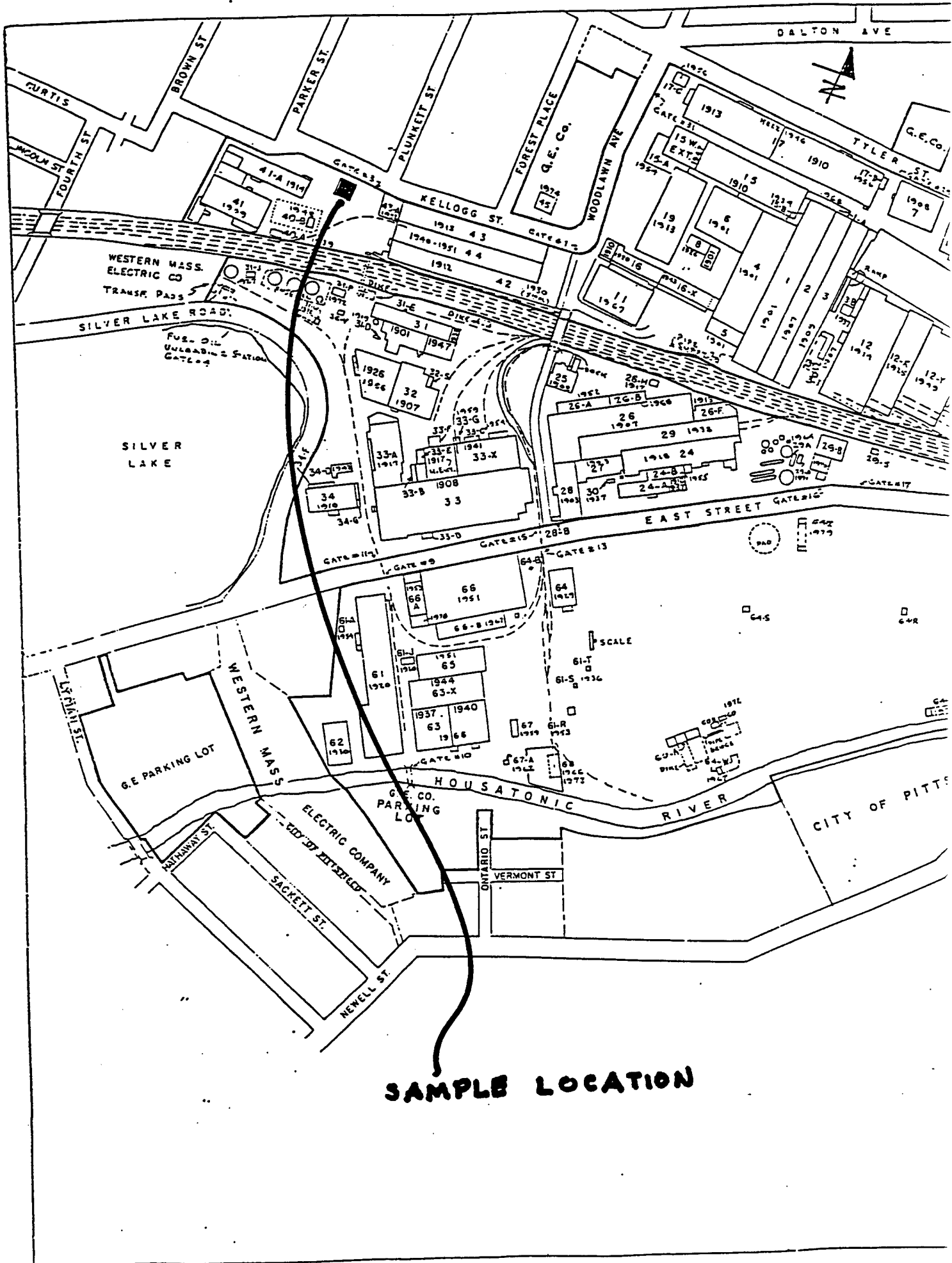
INITIAL READING:                    9.80 span setting @ 50 ppm

ADJUSTED SETTING:                    9.02 span setting @ 55 ppm

NOTES:

Sample 43-1-WL-C11  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





**SAMPLE LOCATION**



SUBJECT

BLDG 43-1 WATERLINE EXCAVATION SAMPLING

PROJ. NO.

101-75-22

BY

AGP

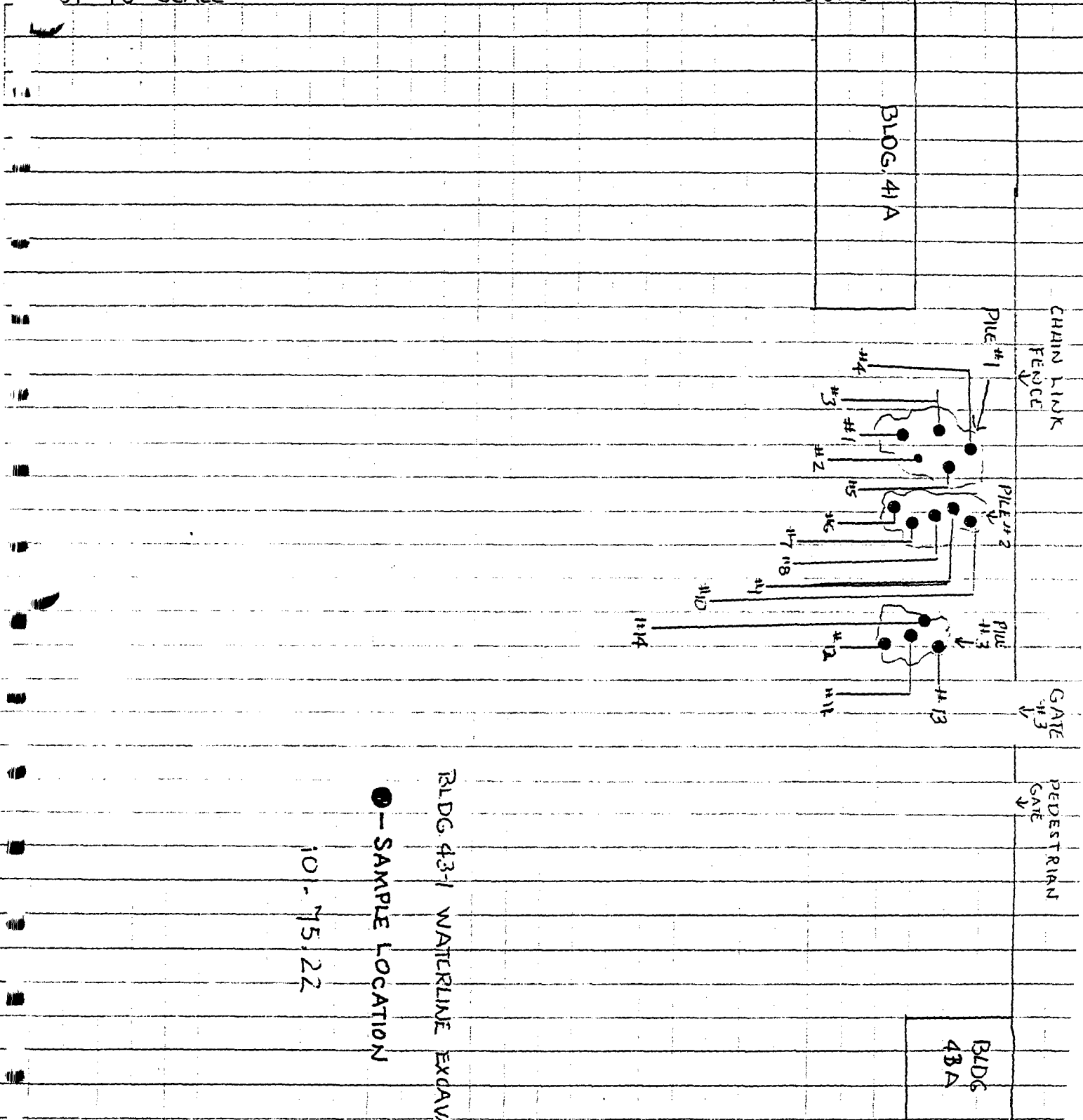
DATE

9-23-91

SHEET

NOT TO SCALE

FIGURE #1



BLDG 43-1 WATERLINE EXCAVATION SAMPLING

● - SAMPLE LOCATION

101-75-22

APPENDIX J, SECTION C-18

DELIVERED TO  
GRANT BOWMAN (GE  
5-29-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Robert W. Rhoades  
Re: Bldg. 44 Water Main Soil Sampling

Date: 05/25/90  
File No: 101-75-01  
cc: Grant Bowman

The following is a summary of the sample results for the PCB sampling program conducted on 5/22/90 outside Bldg. 44. 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
44-WM-C1	<2	C1	SOIL	DISCRETE-GRAB	0'-2'
44-WM-C2	6.8	C2	SOIL	DISCRETE-GRAB	0'-2'
44-WM-C3	<2	C3	SOIL	DISCRETE-GRAB	0'-2'
44-WM-C4	4	C4	SOIL	DISCRETE-GRAB	0'-2'

bee



1647

# Laboratory Report

PRELIMINARY

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 101-75-01  
 DATE COLLECTED See Below DATE REC'D. 5/22/90 DATE ANALYZED 5/23/90

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS (%)	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
44-WM-C1	5/23/90	5/22/90	1.5	92.9	<2.	Soil	A
↓ C2	↓	↓	6.1	90.2	6.8	↓	↓
↓ C3	↓	↓	1.4	92.2	<2.	↓	↓
↓ C4	↓	↓	3.6	90.5	4.	↓	↓
A) Duplicate of 44-WM-C4			3.2	90.5	3.5 vs 4.		70 RPD=13
Lab Blank 2 5/23/90			—	—	<2.		

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 Units: mg/l (ppm) unless otherwise noted

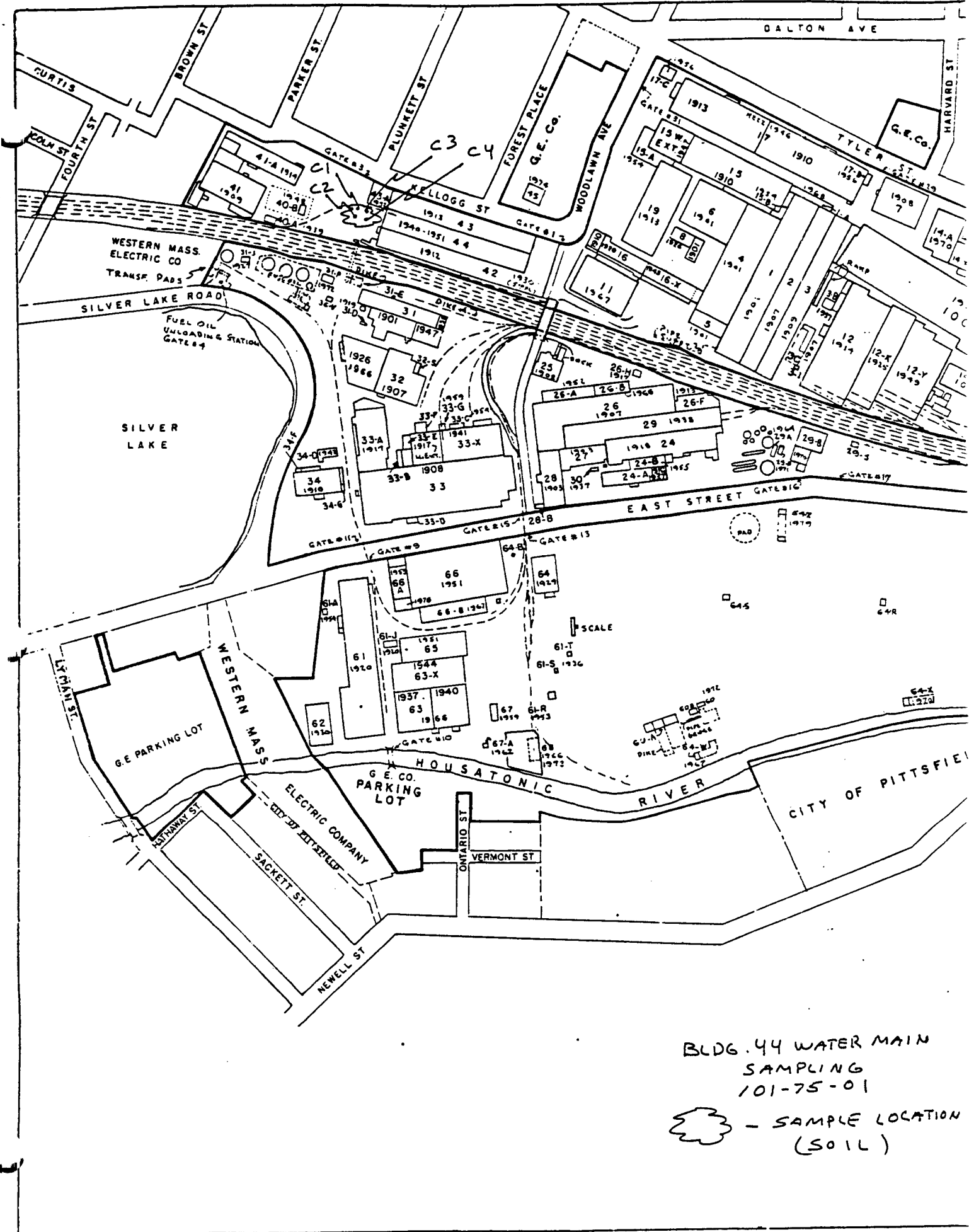
Comments:

Authorized: \_\_\_\_\_


Date: \_\_\_\_\_







BLDG. 44 WATER MAIN  
 SAMPLING  
 101-75-01

 - SAMPLE LOCATION  
 (SOIL)

**APPENDIX J, SECTION C-19**

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

To: Files

Date:7-14-92

From: Bruce Eulian

File No:101-75-22

Re: Bldg 42 (West Side) Sprinkler  
System Excavation Sampling

INITIATOR: Aimee Cole (GE)

DATE:7-13-92

BLDG. LOCATION: Bldg 42 (West Side)

CONTACT PERSON: Aimee Cole (GE)

EXT:2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine proper disposal method for the soil that was excavated for the sprinkler system repair at Bldg 42 (West Side).

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

1.) Soil from the excavation for the sprinkler system repair at Bldg 42 (West Side) is to be sampled for PCB's Method 8060.

2.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID.

3.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be analyzed for VOC's Method 8240 as described in the document entitled "Protocols For The Management of Excavated Soils", dated April 1990.

4.) See attached letter dated 7-8-92.

7-8-92

SAMPLING REQUEST

TO: B. EULIAN B & B

FROM: AIMEE COLE GEC 

SAMPLING OF EXCAVATED DIRT

LOCATION: WEST OF BLDG. 42, NORTH OF UNDERGROUND TUNNEL SHED

B. Pensivy is arranging for Maxy to excavate approximately 8 cu yards of dirt and 1 cu yd. of concrete to repair a water curb for a sprinkler system. The dirt will be placed on poly and covered with the same. The concrete should be kept separate. Please sample the dirt for PCB. Take three discrete samples. Also do a PID and if greater than 10 take one composite sample for 1,2,4, trichlorobenzene and volatiles. Please take one wipe sample on the concrete for PCB. Samples may go to O B & G.

**PRELIMINARY**  
DELIVERED TO  
GRANT BOWMAN (GE)  
8-19-92

BLASLAND AND BOJCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg 42 (West Side) Sprinkler  
System Excavation Sampling

Date: 7-14-92  
File No: 101-75-22  
cc: Grant Bowman (GE)

The following is a summary of samples (Table 1) collected from soil generated during an emergency repair of a water curb for a sprinkler system outside Bldg 42 (West Side). Approximately 9.6 cu yds of soil were generated during the repair. At the request of Amiee Cole (GE) 3 discrete-grab samples of soil were collected and analyzed for PCB's using Method 8080. All soil samples were screened with a calibrated PID meter and found to be less than 10 ppm, therefore the soil samples did not have to be analyzed for VOC's using Method 8240, as described in the document entitled Protocols For The Management of Excavated Soils, dated April 1990.

Drawings showing the site location (Figure 1) and the sample locations (Figure 2) have been attached. An analytical report provided by OSG Laboratories has also been provided (Attachment 1). In addition, a PID calibration form (Attachment 2), and the soil screening results have also been provided (Attachment 3).

rfh

Bldg 42 (West Side) Sprinkler  
System Excavation Sampling  
101-75-22

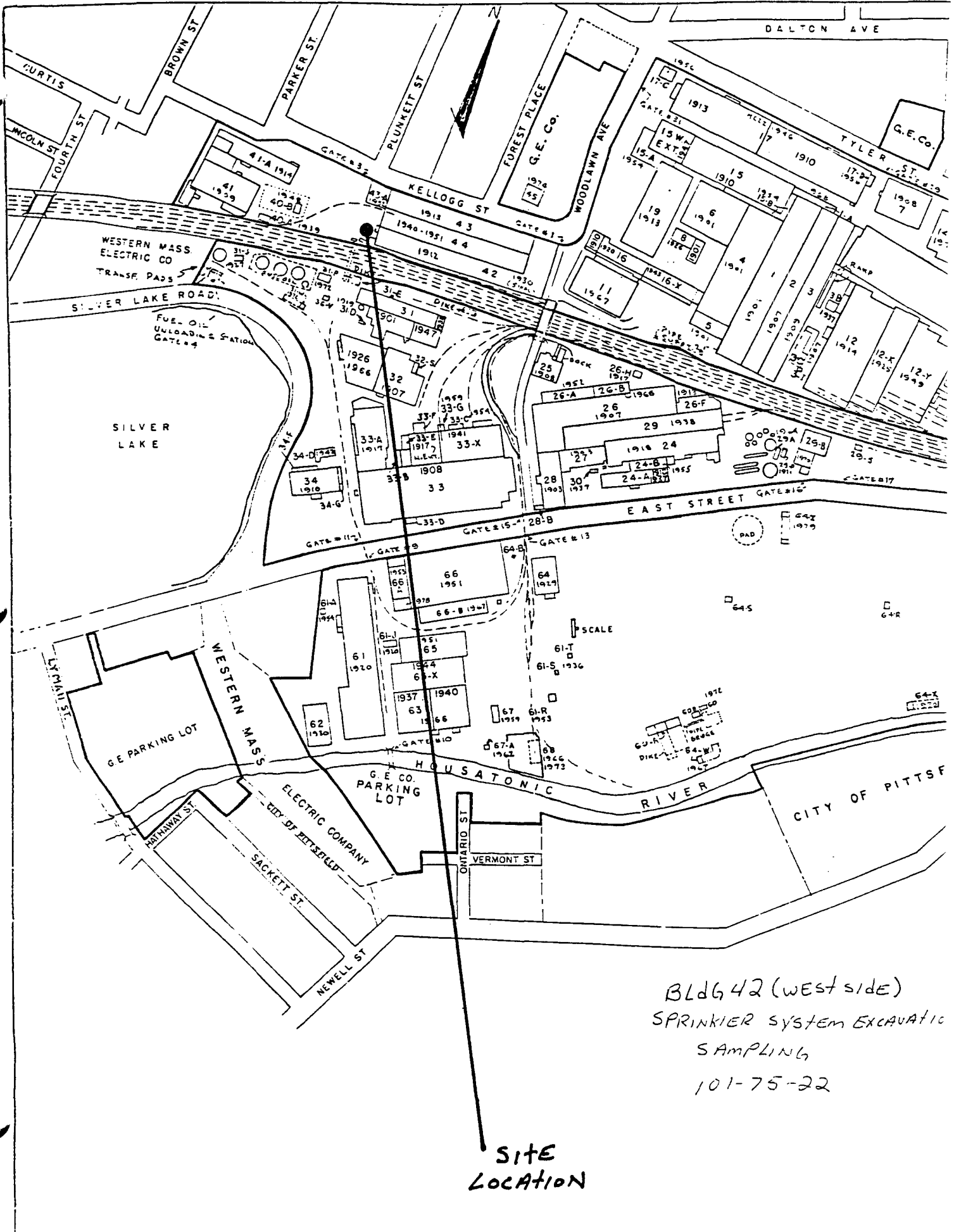
Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
42-SS-C1	07-13-92	1.5	1	SOIL	DISCRETE-GRAB	0-12"	2
42-SS-C2	07-13-92	2.6	2	SOIL	DISCRETE-GRAB	12"-24"	2
42-SS-C3	07-13-92	2.5	3	SOIL	DISCRETE-GRAB	24"-36"	2

RFH

FIGURE 1



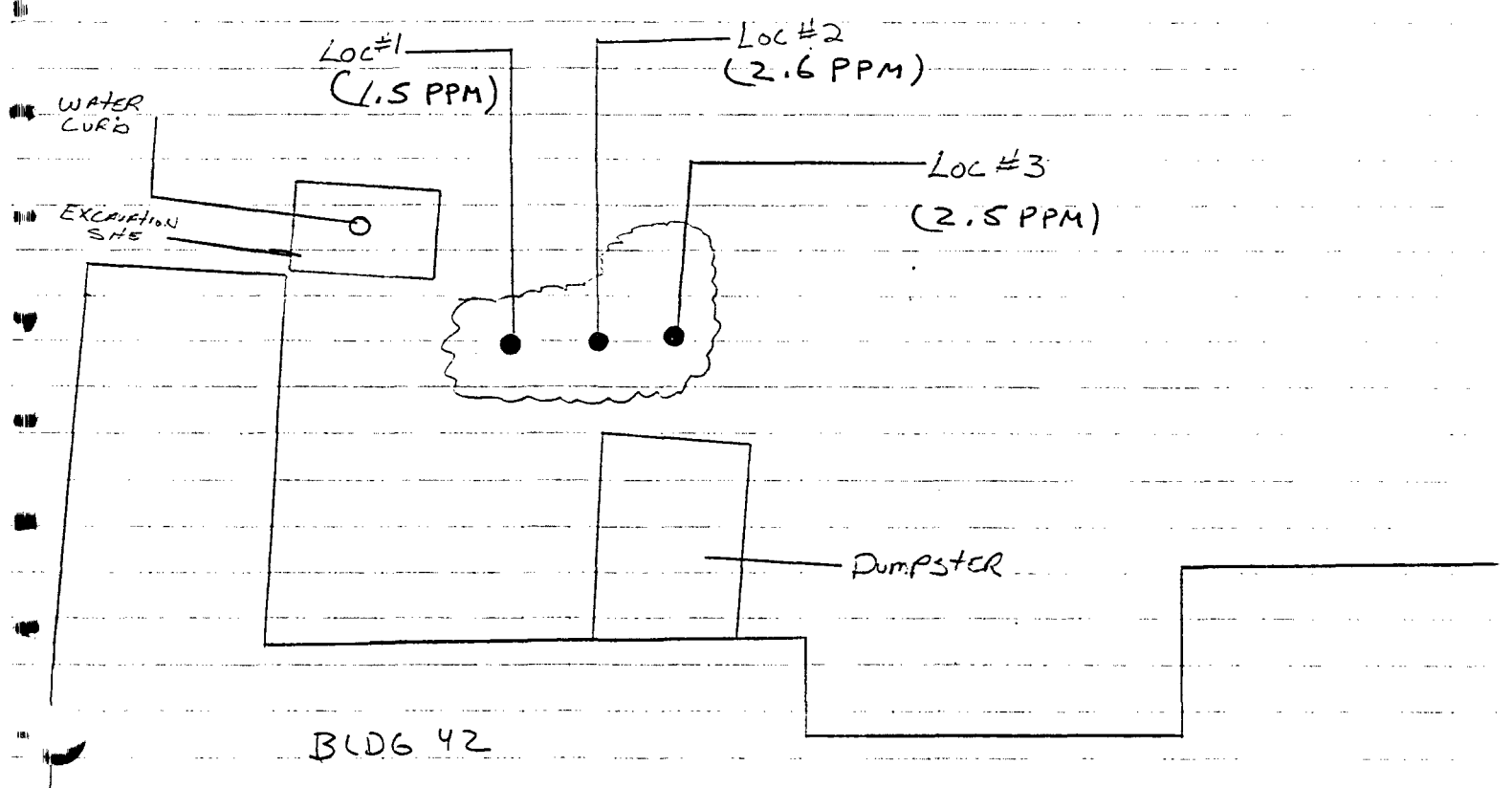
BLDG 42 (west side)  
 SPRINKLER SYSTEM EXCAVATION  
 SAMPLING  
 101-75-22

SITE  
 LOCATION



SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG 42 (WEST SIDE) SPRINKLER SYSTEM EXCAVATION SHMP	101-75-22	RHL	7/14/92	10F1

FIGURE 2



LEGEND  
● SAMPLE LOCATION

ATTACHMENT 1



PRELIMINARY

3977

JUL 15 1992

# Laboratory Report

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

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

Bldg. 42 (west side) Sprinkler system excavation sampling

Date Analyzed 7/14/92 DATE COLLECTED See Below DATE RECEIVED 7/13/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
42-SS-C1	7/14/92	7/13/92	1.4	91	1.5	soil	A
42-SS-C2	↓	↓	2.3	90	2.6	↓	↓
42-SS-C3	↓	↓	2.3	91	2.5	↓	↓
A) Reagent Blank 1:					< 1		
Reference Sample 1:					3.9/3.3 =	118%	
Matrix Spike 34-2-II-C3:					5.3/3.3 =	161%	
Matrix spike Duplicate:					5.5/3.3 =	167%	
Precision:					5.3 vs 5.5 =	3.7% RPD	

Comments:

Certification No.:

Units: mg/Kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

ATTACHMENT 2

HNU CALIBRATION

Bldg 42 (west side)

SPRINKLER SYSTEM EXCAVATION SAMPLING

DATE: 7-13-92  
OPERATOR: JILL HASSETT

HNU SERIAL NO: A70129  
eV OF PROBE: 10.2

CALIBRATION GAS:            9.8 span setting @ 57.3 ppm

INITIAL READING:            9.8 span setting @ 57.0 ppm

ADJUSTED SETTING:            \_\_\_\_\_ span setting @ \_\_\_\_\_ ppm

NOTES:

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ATTACHMENT 3



APPENDIX J, SECTION C-20



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

To: Files

Date: 10-06-92

To: Bruce Eulian

File No: 101.75.22

Re: Bldg.31J Conduit Trench  
Excavation Sampling

INITIATOR: Aimee Cole (GE)

DATE: 09-30-92

BLDG. LOCATION: Bldg.31J (South East Outside)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine the proper disposal method for the soil that was generated during the excavation for Bldg.31J Conduit Trench at Bldg.31J.

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

1.) Soil from excavation for the Bldg.31J Conduit Trench is to be sampled for PCB's using method 8080.

2.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

3.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be sampled for VOC's using Method 8240 as described in the document entitled "Protocols for the Management of Excavated Activities", dated April 1990.

4.) GE requests the samples to be analyzed at OBG Laboratories in Pittsfield, Mass.

hme

9-28-92

SAMPLE REQUEST

To: Bruce Eulian - B&B

From: A. Cole - GEC *AC*

SAMPLING OF PLANNED MINOR LINEAR EXCAVATION

SITE: BLDG. 31J TO TRANSFORMER PAD NEAR SILVER LAKE

Warren Wood is planning a minor excavation to install an electrical conduit line at the above location. This excavation should begin on Sept. 29, 1992.

The estimated size of the excavation is an 18" deep trench, 1 foot wide and about 60 feet long. The total cubic yardage is about 3 1/3 yds. Please sample for PCB and PID. This is not an area 2 excavation. Sampling frequency for PCB's is 1 every 50 feet, so this exc. requires 2 samples. To avoid conflicting results please take 3 PCB samples.

PCB'S may be analyzed by O B & B locally. If you get a PID hit above 10 please sample for volatiles and 1,2,4 trichlorobenzene as per the protocol.

**PRELIMINARY**

DELIVERED TO  
GRANT BOWMAN (GE)  
10-23-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg. 31J Conduit Trench  
Excavation Sampling

Date: 9-29-92  
File No: 101-75-22  
cc: Grant Bowman (GE)  
Robert Rhoades (B&B)

The following is a summary of samples (Table 1) collected from soil generated during the excavation of the Conduit Trench Excavation at Bldg. 31J. Approximately 3.3 cubic yards of soil were generated during the excavation. At the request of Aimee Cole (GE) 3 discrete-grab samples were collected and analyzed discretely for PCB's method 302G. All samples were screened with a calibrated PID meter and found to be less than 10 PPM, therefore the soil did not have to be analyzed for VOC's using method 8240 as described in the document entitled "Protocols for the Management of Excavated Activities", dated April 1990.

Drawings showing the site location (Figure 1), and the sample location (Figure 2) have been attached. A preliminary analytical report provided by OBG Laboratories has also been included (Attachment 1). In addition, a calibration form (Attachment 2), and the screening results have also been provided (Attachment 3).

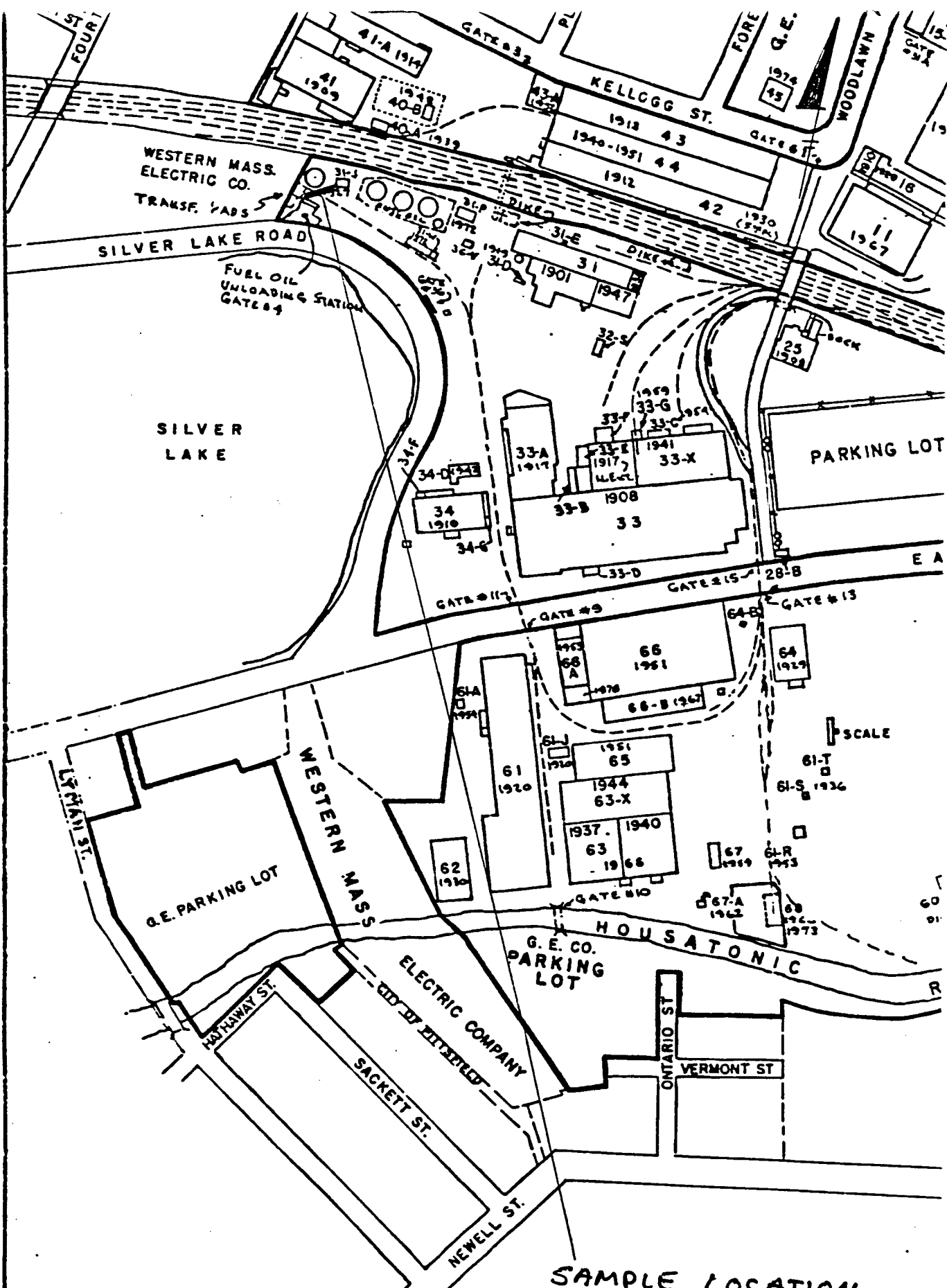
rfn

Bldg.31J Conduit Trench  
Excavation Sampling  
101-75-22

Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
31J-CT-01	09-30-92	34.0	1	SOIL	DISCRETE-GRAB	0"-16"	2
31J-CT-02	09-30-92	37.0	2	SOIL	DISCRETE-GRAB	0"-16"	2
31J-CT-03	09-30-92	86.0	3	SOIL	DISCRETE-GRAB	0"-16"	2

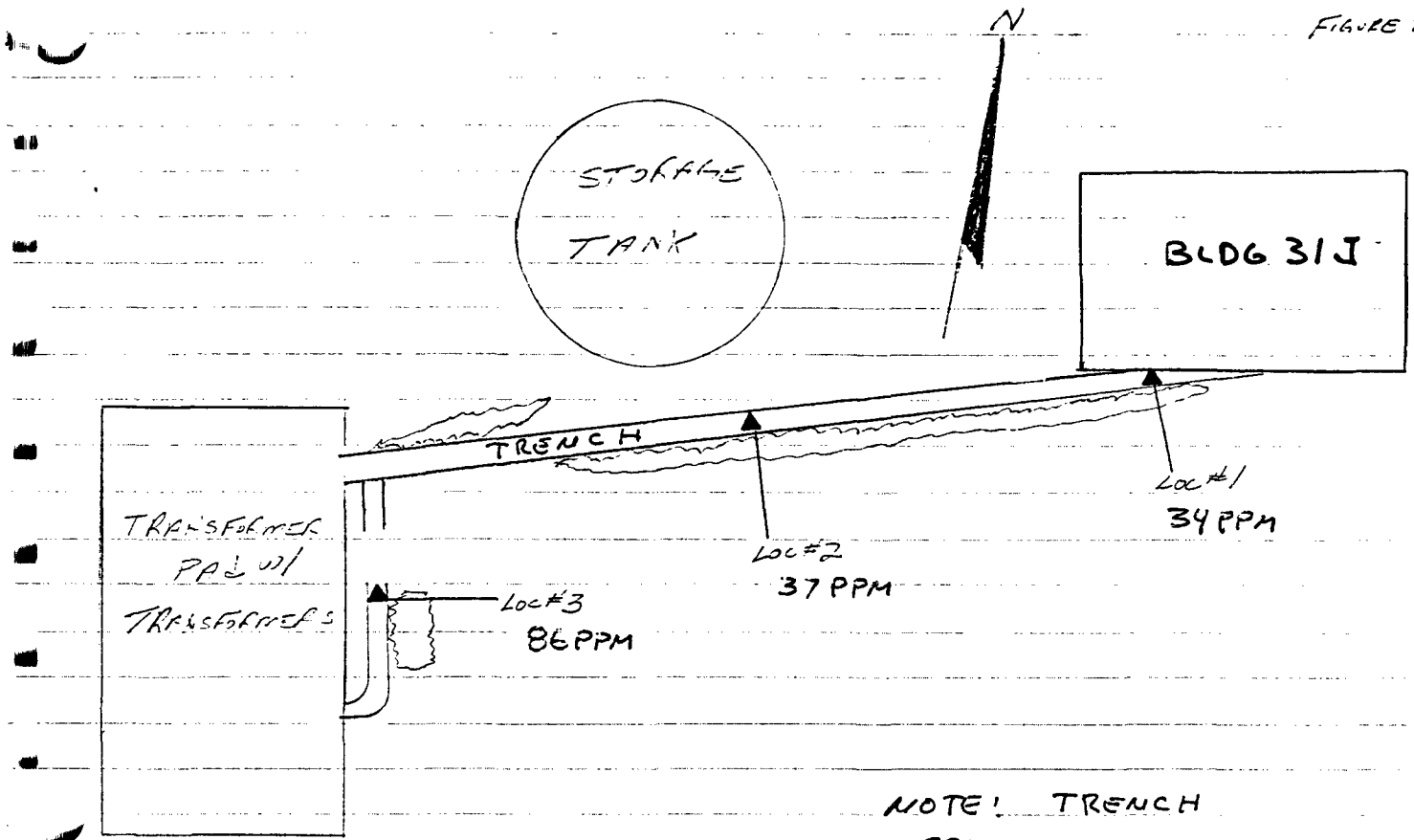


BLDG 31 I CONDUIT  
 TRENCH EXCAVATION SAMPLING  
 101-75-22

SAMPLE LOCATION

SUBJECT BLDG 31J CONDUIT TRENCH EXCAVATION SAMPLING	PROJ. NO. 101-75-22	BY R/H	DATE 9-30-92	SHEET 10/1
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FIGURE 2



NOTE! TRENCH  
 APPROX. DIMENSIONS  
 LENGTH 86'  
 WIDTH 1'  
 HEIGHT 18"  
 APPROX. 3.3 CUBIC YARDS

LEGEND

▲ SAMPLE LOCATION

NOT TO SCALE

ATTACHMENT 1



4089

PRELIMINARY

# Laboratory Report

OCT 5 1992

CLIENT BLASLAND & BOUCK ENGINEERS, P.C.

JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield

Job No. 101-75-22

Bldg. 31 J Conduit Trench Excavation Sampling

Date Analyzed 10/2/92

DATE COLLECTED See Below

DATE RECEIVED 9/30/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
31J-CT-C1	10/1/92	9/30/92	31	90	34	soil	A
↓ -C2	↓	↓	34	92	37	↓	↓
↓ -C3	↓	↓	65	75	86		
A) Reagent Blank 100192-1:					<1		
Reference Sample 100192-1:					2.8/3.3 = 84%		
Matrix Spike 31-CE-C3:					2.4/3.3 = 74%		
Matrix Spike Duplicate:					2.4/3.3 = 74%		
Precision:					2.4 vs 2.4 = 0% RPD		

Comments:

Certification No.:

Units: mg/Kg = PPM

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



ATTACHMENT 2

HNU CALIBRATION

DATE: 9-30-92  
OPERATOR: B LBB

HNU SERIAL NO: 270107  
eV OF PROBE: 10.2

CALIBRATION GAS:                    98.0 span setting @ 57 ppm

INITIAL READING:                    98.0 span setting @ 57 ppm

ADJUSTED SETTING:                           span setting @        ppm

NOTES:

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ATTACHMENT 3



APPENDIX J, SECTION C-21

DELIVERED TO  
GRANT BOWMAN  
12-9-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Bruce Eulian  
Re: Oil Water Separator 31W Soil Sampling (MRC Yard)

Date: 10-23-91  
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 the MRC Yard on 10-22-91. A drawing showing the sample location is attached (see figure 1). A preliminary analytical report provided by OBG Laboratories and a final analytical report provided by Alpha Analytical have also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
31W-C1	19.0	1	SOIL	DISCRETE-GRAB	0"-2"
31W-C2	6.6	2	SOIL	DISCRETE-GRAB	0"-16"
31W-C3	6.4	3	SOIL	DISCRETE-GRAB	0"-24"

TCLP SAMPLING RESULTS

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
31W-C4	SEE ALPHA LAB REPORT		SOIL	DISCRETE-GRAB	0"-24"

agc

3374



# PRELIMINARY Laboratory Report

NOV 4 1991

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

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

Separator 31 W Soil Sampling  
Date Analyzed 10-31-91 DATE COLLECTED See Below DATE RECEIVED 10/22/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
31W-C1	10-30-91	10-22-91	17	91	19	Soil	A
↓ C2	↓	↓	6.3	95	6.6	↓	↓
↓ C3	↓	↓	6.1	96	6.4	↓	↓
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.:

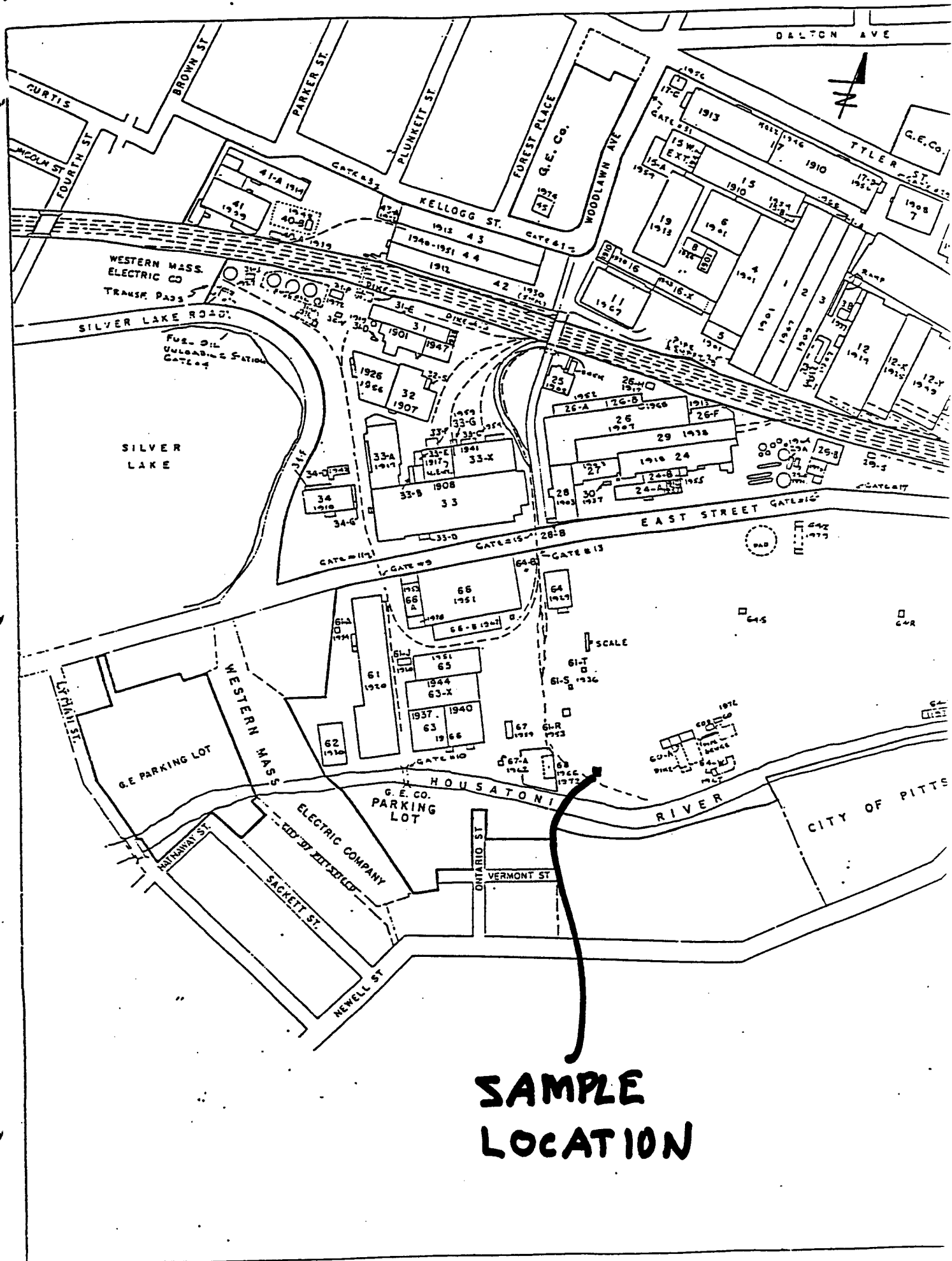
Units: mg/g = PPM

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_







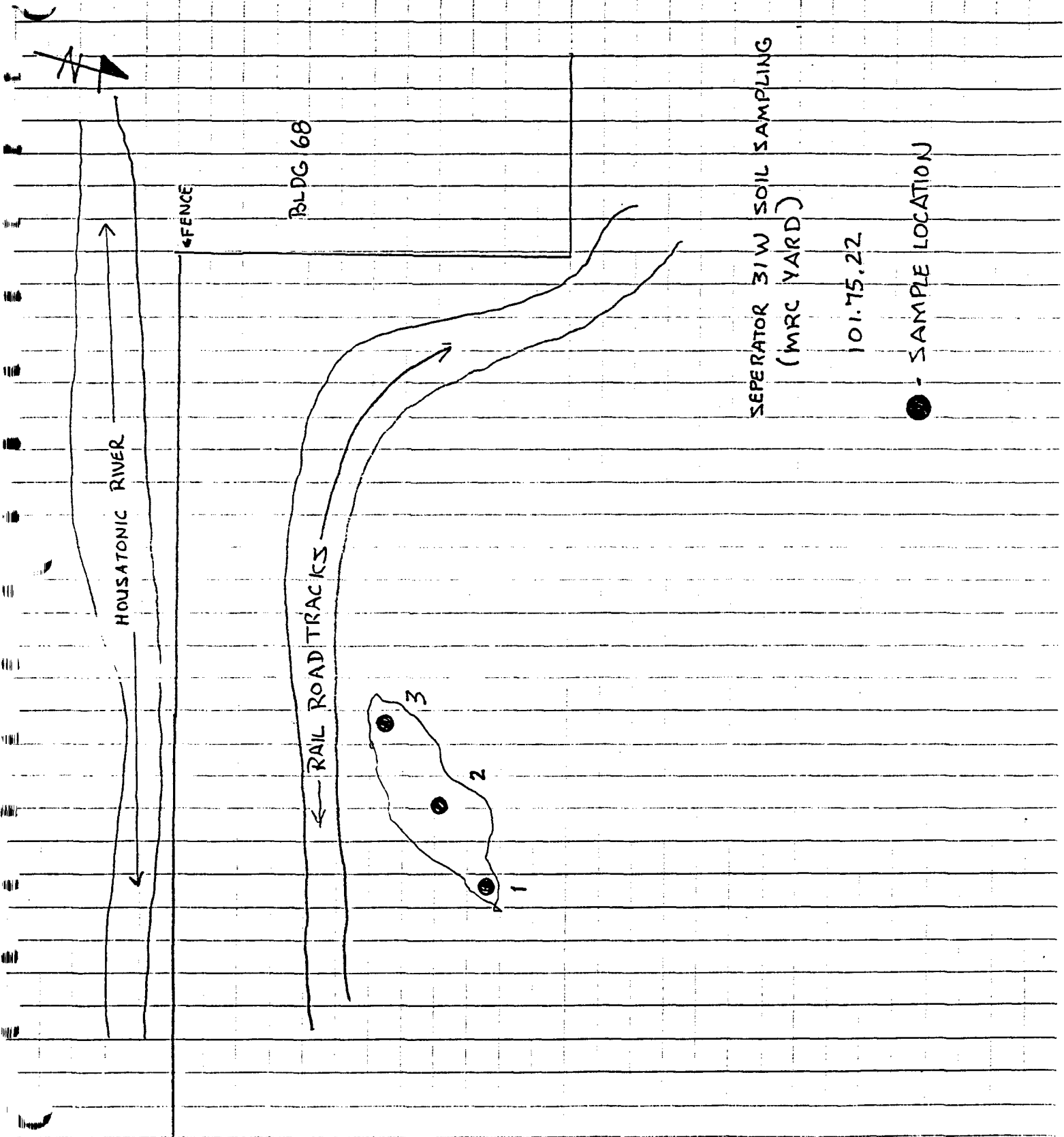
**SAMPLE  
LOCATION**



SUBJECT	PROJ. NO.	BY	DATE	SHEET
SEPERATOR 31 W SOIL SAMPLING (MRC YARD)	101.75.22	AGP	10-23-91	

NOT TO SCALE

FIGURE #1



SEPERATOR 31 W SOIL SAMPLING  
(MRC YARD)

101.75.22

● - SAMPLE LOCATION

APPENDIX J, SECTION C-22

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

TO: Files

DATE: 2-8-93

FROM: Bruce Eulian

FILE NO: 201.16.17

RE: Bldg 31 (outside) Waterline Close-off  
Excavation Sampling

INITIATOR: Aimee Cole (GE)

DATE: 1-26-93

ELDS LOCATION: Bldg 31 (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 was excavated from the Bldg 31 (outside) Waterline Close-off excavation.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE): (see attached letter dated 1-26-93)

1.) Soil samples for the Bldg 31 (outside) Waterline Close-off excavation are to be sampled for PCB's and analyzed by Method 8080.

2.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

3.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be sampled for VOC's and analyzed by Method 8240 and 1,2,4 Trichlorobenzene using Method 8120.

4.) GE requests the samples collected be analyzed by OBG Laboratories in Pittsfield, MA if the PID readings are <10 PPM and at Syracuse, NY OBG Laboratories if the PID readings are greater than or equal to 10 PPM.

jjh

January 26, 1992

SAMPLE REQUEST

To: B. Eulian - B & B

From: A. Cole - GEC

Re: Post-excavation sampling at bldg. 33x  
and in the vicinity of the powerhouse.

Bob Pensivy estimates that less than 10 yards of material will be excavated in two excavations to close off a water line to bldg. 31. Please sample this material for PCB (3 samples for 10 yards) and take PID readings. If the PID hits greater than 10 then sample for VOC's and 1,2,4, Trichlorobenzene. This is not an Area 2 excavation.

The dirt from the 33x excavation is located inside bldg. 33x. The first excavation is already done.

The dirt from the excavation near the powerhouse is located between the powerhouse, the separator and the water tower. The second excavation is being dug today 1/26/93.

The samples may be sent to the D B & B lab locally. If VOC's are required (based on PID) all samples may be sent to Syracuse for analysis.

DELIVERED TO  
GRANT BOWMAN (GE)  
2-26-93

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg 31 (outside) Waterline Close-off  
Excavation Sampling

Date: 2-5-93  
File No: 201.16.17  
cc: Grant Bowman (GE)  
Robert Rhoades (B&B)

The following is a summary of the sampling program conducted on 2-4-93 on the soil from the Bldg 31 (outside) Waterline Close-off Excavation. The soil from the excavation was placed into two (2) piles for a total of approximately 37.3 cu yds of soil to be sampled.

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

File 1 (12'x10'x5' approx. 22.2 cu yds)

- Collected five (5) discrete-grab samples and were analyzed for PCB's (Method 8080)

File 2 (17'x8'x3' approx. 15.1 cu yds)

- Collected five (5) discrete-grab samples and were analyzed for PCB's (Method 8080)

The soil samples were screened with a calibrated PID meter and found to be <10 PPM, therefore the soil did not have to be sampled for VOC's and analyzed by Method 8240 or 1,2,4 Trichlorobenzene and analyzed by Method 9120.

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 (Attachment 1) have also been included. In addition, a calibration form (Attachment 2) and the soil screening results (Attachment 3) have also been provided.

Bldg 31 (outside) Waterline Close-off  
Excavation Sampling

201.15.17

Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
<u>PILE 1</u>							
31-WLC-01	2-4-93	13.0	1	SOIL	DISCRETE-GRAB	0-1'	2
31-WLC-02	2-4-93	21.0	2	SOIL	DISCRETE-GRAB	1-2'	2
31-WLC-03	2-4-93	37.0	3	SOIL	DISCRETE-GRAB	2-3'	2
31-WLC-04	2-4-93	12.0	4	SOIL	DISCRETE-GRAB	0-1'	2
31-WLC-05	2-4-93	11.0	5	SOIL	DISCRETE-GRAB	1-2'	2
<u>PILE 2</u>							
31-WLC-06	2-4-93	1.9	6	SOIL	DISCRETE-GRAB	0-1'	2
31-WLC-07	2-4-93	<1.0	7	SOIL	DISCRETE-GRAB	1-2'	2
31-WLC-08	2-4-93	15.0	8	SOIL	DISCRETE-GRAB	0-1'	2
31-WLC-09	2-4-93	13.0	9	SOIL	DISCRETE-GRAB	1-2'	2
31-WLC-010	2-4-93	34.0	10	SOIL	DISCRETE-GRAB	0-1'	2

FIGURE #1

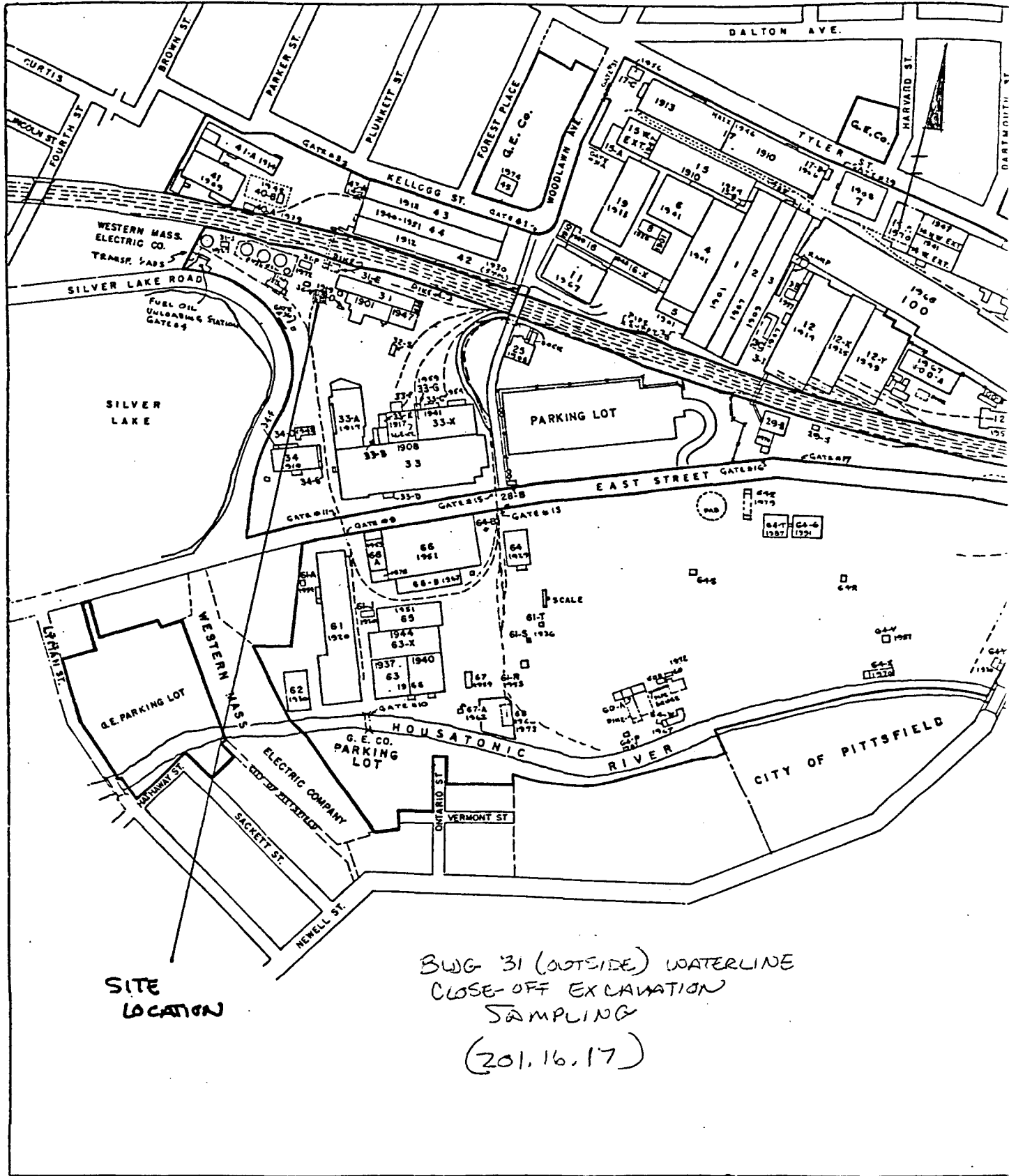
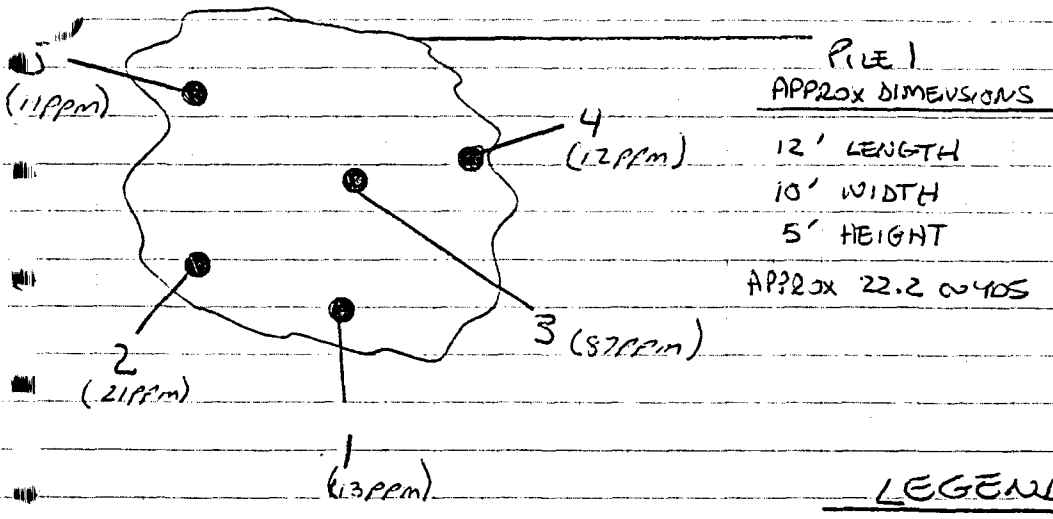
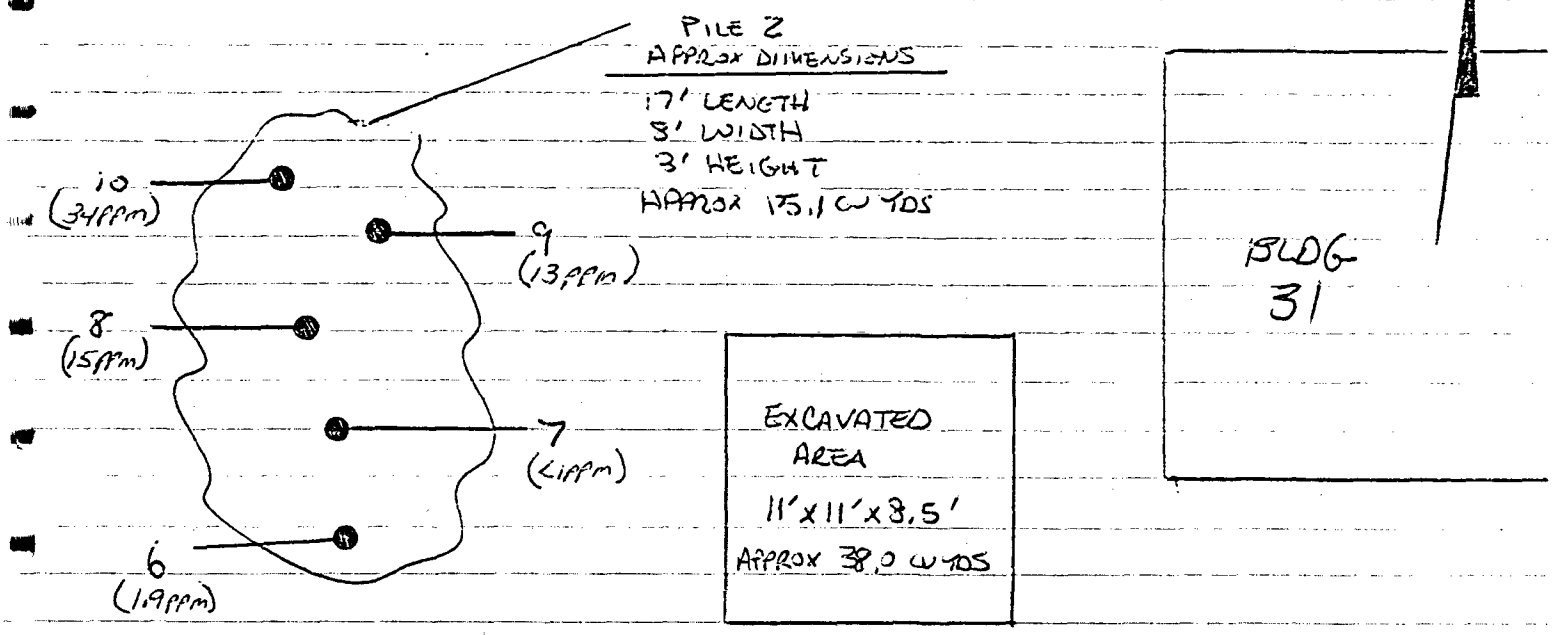
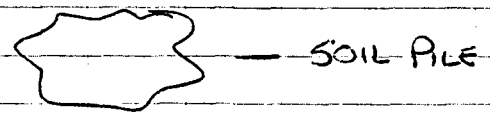




FIGURE # 2



LEGEND



ATTACHMENT 1



4183  
**PRELIMINARY**  
 FEB 9 1993

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 201-16-17  
Bldg 31 (OUTSIDE) Water line Close-off Excavation Sampling  
 Date Analyzed 2/8/93 DATE COLLECTED See Below DATE RECEIVED 2/5/93

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
31-WLC-C1	2/5/93	2/4/93	10.7	85	13	soils ↓	A ↓
31-WLC-C2			17	80	21		
31-WLC-C3			65	75	87		
31-WLC-C4			10	83	12		
31-WLC-C5			9.0	84	11		
31-WLC-C6			1.6	86	1.9		
31-WLC-C7			<1 (.432)	82	<1		
31-WLC-C8			12.8	86	15		
31-WLC-C9			10.9	85	13		
31-WLC-C10			27	80	34		
A Reagent Blank 020593-1:					<1		
Reference Sample 020593-1:					2.3/3 = 77%		
Matrix Spike 31-WLC-C8:					3.9/3 = 130%		
Matrix Spike Duplicate:					4/3 = 133%		
Precision:					3.9 vs 4.0 = 2.5% RPD		

Comments:

Certification No.:

Units: mg / Kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

ATTACHMENT 2

HNU CALIBRATION

BLDG 31 (OUTSIDE) WATER LINE CLOSE-OFF  
EXCAVATION SAMPLING  
(20116.17)

DATE: 2-4-93  
OPERATOR: JIM NASSETT

HNU SERIAL NO: A70129  
eV OF PROBE: 10,2

CALIBRATION GAS:                    9.8 span setting @ 57 ppm

INITIAL READING:                    9.8 span setting @ 63 ppm

ADJUSTED SETTING:                    10.0 span setting @ 62 ppm

NOTES:

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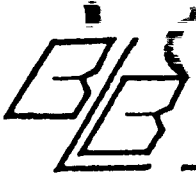
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ATTACHMENT 3





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

**CHAIN OF CUSTODY RECORD**

PROJECT NO. 201.16.07		PROJECT NAME BUDG-31 (OUT-ILL) WATER LINE CLOSE-OFF EXCAVATION SAMPLES					NO. OF CONTAINERS	TESTS METHODS EPA 80					REMARKS		
LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE									
						SOLID (SIL)								WIPE	WATER
31-WLC-C1		2-4-93	1100		X	X			1	X					
31-WLC-C2		2-4-93	1115		X	X			1	X					
31-WLC-C3		2-4-93	1130		X	X			1	X					
31-WLC-C4		2-4-93	1145		X	X			1	X					
31-WLC-C5		2-4-93	1200		X	X			1	X			1/2 PINT GLASS JARS		
31-WLC-C6		2-4-93	1215		X	X			1	X					
31-WLC-C7		2-4-93	1230		X	X			1	X					
31-WLC-C8		2-4-93	1245		X	X			1	X					
31-WLC-C9		2-4-93	1300		X	X			1	X					
31-WLC-C10		2-4-93	1315		X	X			1	X					
SAMPLED BY: (SIGNATURE) <i>John J. Bassett</i>		DATE/TIME 2-4-93 1100 to 1315		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>			DATE/TIME		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 2/4/93 11:00		REMARKS SENT TO ORS PITSPIELD						



APPENDIX J, SECTION C-23

DELIVERED to  
GRANT BOWMAN  
6/3-10-92

**PRELIMINARY**  
MAR 9 1992

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg 31 (West End Outside) Steamline  
Excavation Soil Sampling

Date: 3-6-92  
File No: 101-75-22  
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on 2-21-92 from soil excavated during an emergency repair of the steamline outside the West end of Bldg 31. The excavated soil was placed into 3 separate piles.

1 soil pile #1 - approx. 1.3 cu yds

1 soil pile #2 - approx. 1.3 cu yds

1 soil pile #3 - approx. 1.1 cu yds

At the request of Aimee Cole (GE) three discrete samples of soil were collected and analyzed for PCB's using Method 8080. All soil samples were screened with a calibrated PID meter and found to be less than 10 ppm; therefore, soil did not have to be analyzed for VOC's using Method 8240, as per the Protocols For The Management Of Excavation Activities dated April 1990.

A summary table of the sampling program results has been provided (Table 1), as well as a drawing showing the site location (Figure 1) and sample locations (Figure 2). A preliminary analytical report provided by OBG Laboratories has also been included (Attachment 1). In addition, a PID calibration form and soil screening results have also been provided (Attachment 2).

SEE

Bldg 31 (West End Outside) Steamline  
Excavation Soil Sampling  
101-75-22

PRELIMINARY

MAR 9 1992

Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
31-SL-C1	02-21-92	5.4	1	SOIL	DISCRETE-GRAB	0-2'	2
31-SL-C2	02-21-92	5.3	2	SOIL	DISCRETE-GRAB	0-2'	2
31-SL-C3	02-21-92	2.6	3	SOIL	DISCRETE-GRAB	0-2'	2

528



3695

**PRELIMINARY**  
 FEB 25 1992

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 101-75-22  
Steam Line Excavation Soil Samp.  
 Date Analyzed 2/24/92 DATE COLLECTED See Below DATE RECEIVED 2/21/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
31-SL-C1	2/24/92	2/21/92	4.8	89	5.4	Soil ↓	A ↓
31-SL-C2	↓	↓	4.8	91	5.3		
31-SL-C3	↓	↓	2.3	90	2.6		
A) Reagent Blank 1:					< 1		
Reference Sample 1:					3.3/3.3 =	100%	
Matrix Spike OPI-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.:

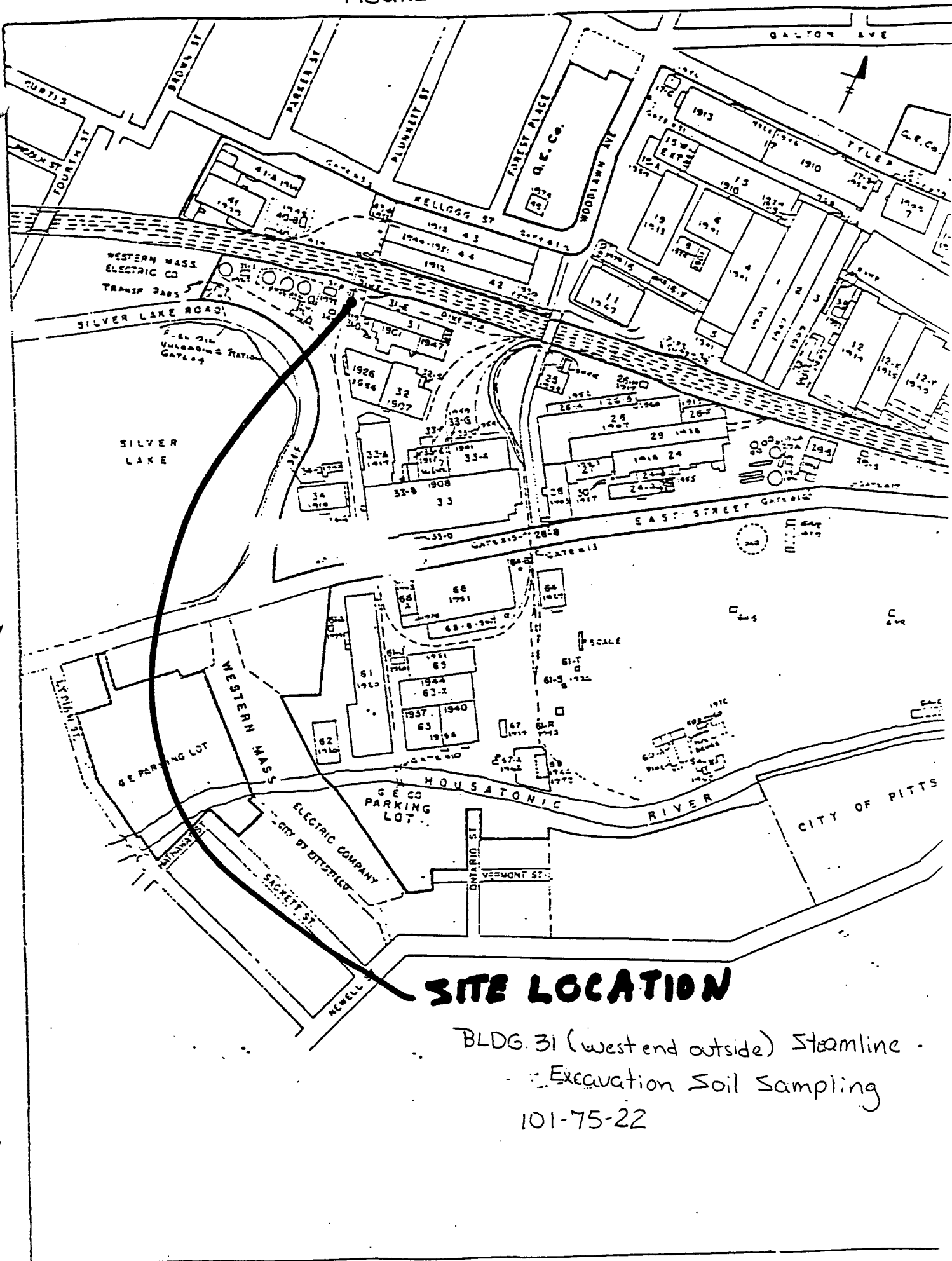
Units:

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_



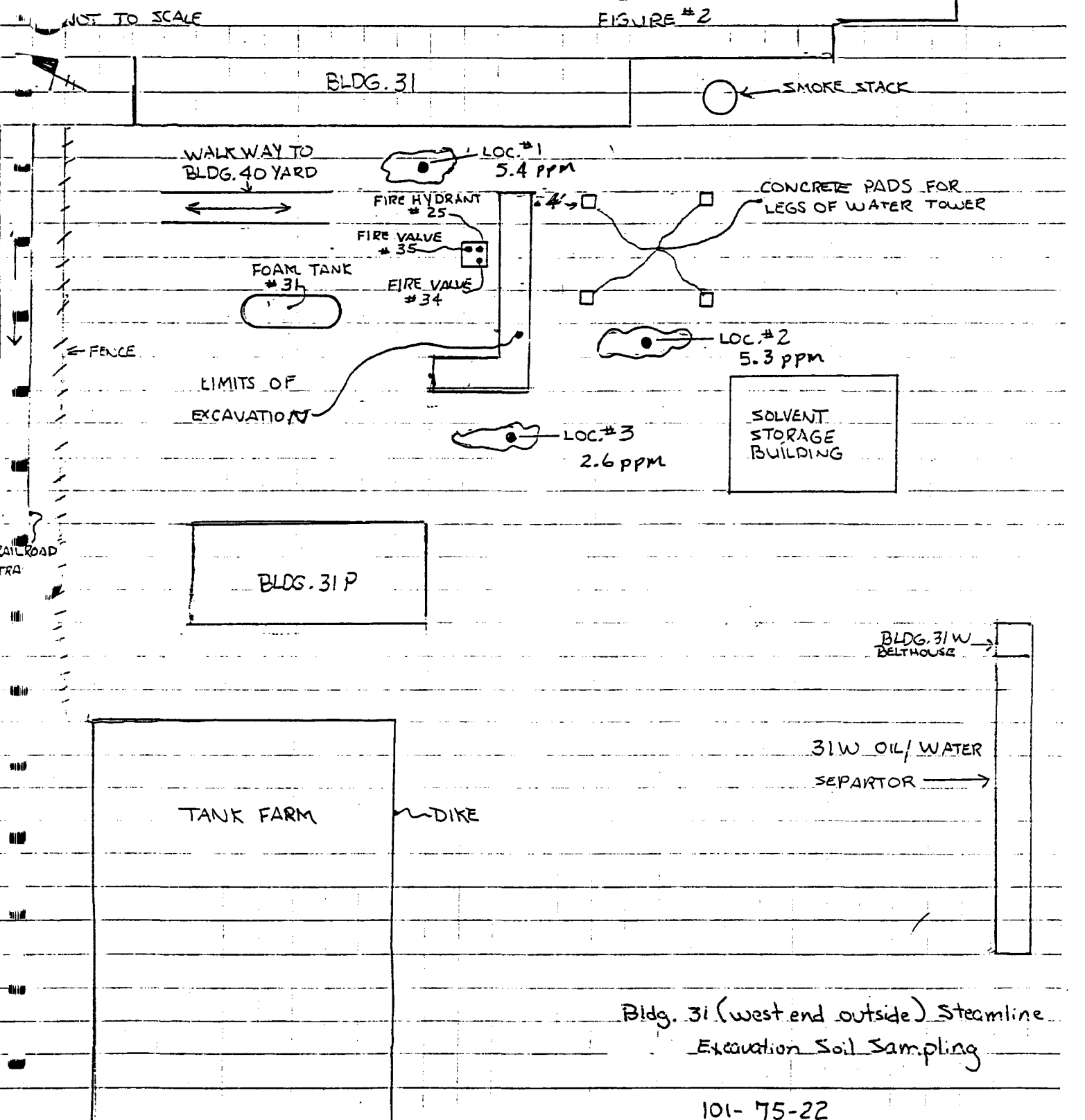
FIGURE #1



**SITE LOCATION**

BLDG. 31 (west end outside) Steamline -  
Excavation Soil Sampling  
101-75-22

SUBJECT	PROJ. NO.	BY	DATE	SHEET
31 (west end outside) Steamline Excavation Soil Sampling	101-75-22	AGP	2-21-91	1 of 1



Bldg. 31 (west end outside) Steamline  
Excavation Soil Sampling

101-75-22

● - SAMPLE LOCATION

APPENDIX J, SECTION C-24



DELIVERED TO  
GRANT BOWMAN (GE)  
1/30/90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Bruce Eulian  
Re: Bldg. 31 Water Curb Sampling

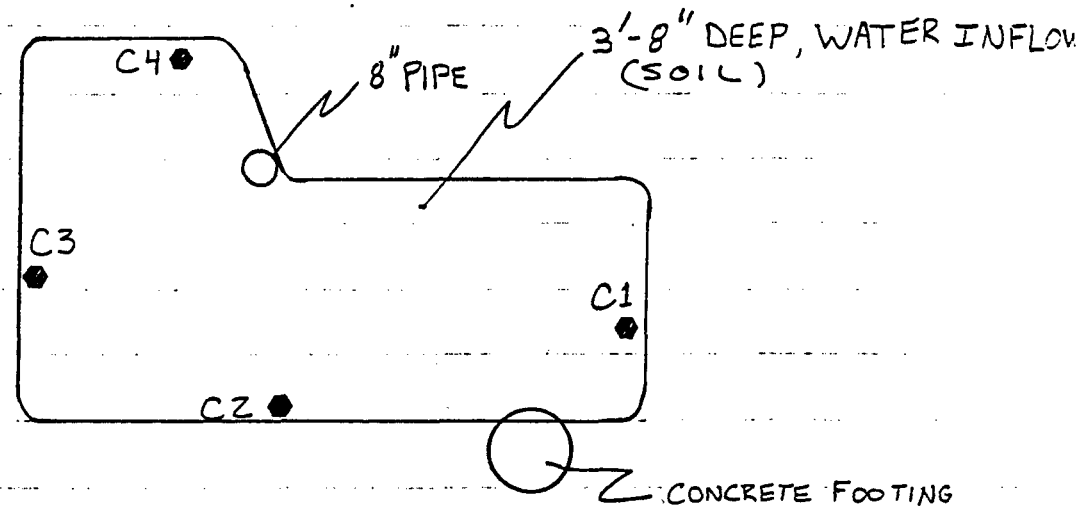
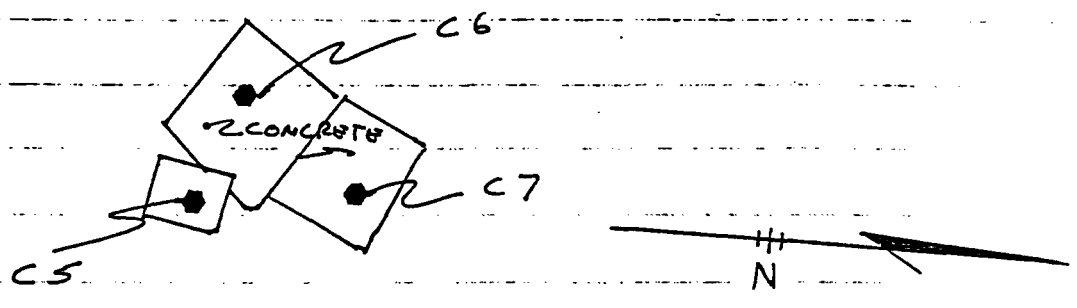
Date: 09/27/90  
File No: 101-75-01  
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside Bldg.31. 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	SAMPLE DATE
1-WC-C1	1.0	C1	SOIL	DISCRETE-GRAB	0'-3'	08/28/90
31-WC-C2	4.6	C2	SOIL	DISCRETE-GRAB	0'-3'	08/28/90
31-WC-C3	1.0	C3	SOIL	DISCRETE-GRAB	0'-3'	08/28/90
31-WC-C4	4.4	C4	SOIL	DISCRETE-GRAB	0'-3'	08/28/90
31-WC-C5	<1.0	C5	CONCRETE	DISCRETE-CORE	0"-4"	08/30/90
31-WC-C6	<1.0	C6	CONCRETE	DISCRETE-CORE	0"-4"	08/30/90
31-WC-C7	<1.0	C7	CONCRETE	DISCRETE-CORE	0"-4"	08/30/90

SUBJECT BLDG. 31 - WATER CURB SAMPLING	PROJ. NO. 101-75-01	BY TPM	DATE 8-28-90	SHEET 1 OF 1
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BLDG 31 WATER CURB  
SAMPLING 101-75-01  
 $\frac{1}{4}'' = 1'$   
● - SAMPLE LOCATION



HUSH! - 5-DAY  
TURNAROUNDS!

SECTION LEADER: AK  
**Laboratory Report**  
BIN #: 77

CLIENT: Blasland & Bouck Engineers JOB NO. 2887-026-517  
DESCRIPTION: Bldg. 31 Water Curb MATRIX: Soil  
Job # 101-75-01 GE Pittsfield.  
Date analyzed: 8/30/90 DATE COLLECTED: 8-28-90 DATE RECEIVED: 8-30-90

31-WC-C1  
↓ C2  
C3  
↓ C4

Sample #	POB 8080	PCTS	Proclay
148681	1.0	83	1200
↓ 82	4.6	84	↓
↓ 83	1.0	83	
↓ 84	4.4	86	

Comments:

Certification No.: 10155  
Units: mg/kg dry wt.

Authorized: \_\_\_\_\_  
Date: \_\_\_\_\_



3 DAY TURN!

SECTION LEADER: MC  
**Laboratory Report**

**PRELIMINARY**

BIN #: 25

CLIENT: Blastland & Bouch Engineers JOB NO. 2887.026.517

DESCRIPTION: Bldg. 31 water curb. MATRIX: Concrete.

Job # 101-75-01

Date analyzed: 9/4/90 DATE COLLECTED 8-25-90 DATE RECEIVED 8-31-90

31-UC-C5  
C6  
C7  
 ↓

Sample #	8080 PCB	Method
<u>18750</u>	<u>41.</u>	<u>—</u>
<u>↓ 51</u>	<u>41.</u>	<u>↓</u>
<u>↓ 52</u>	<u>41.</u>	<u>↓</u>

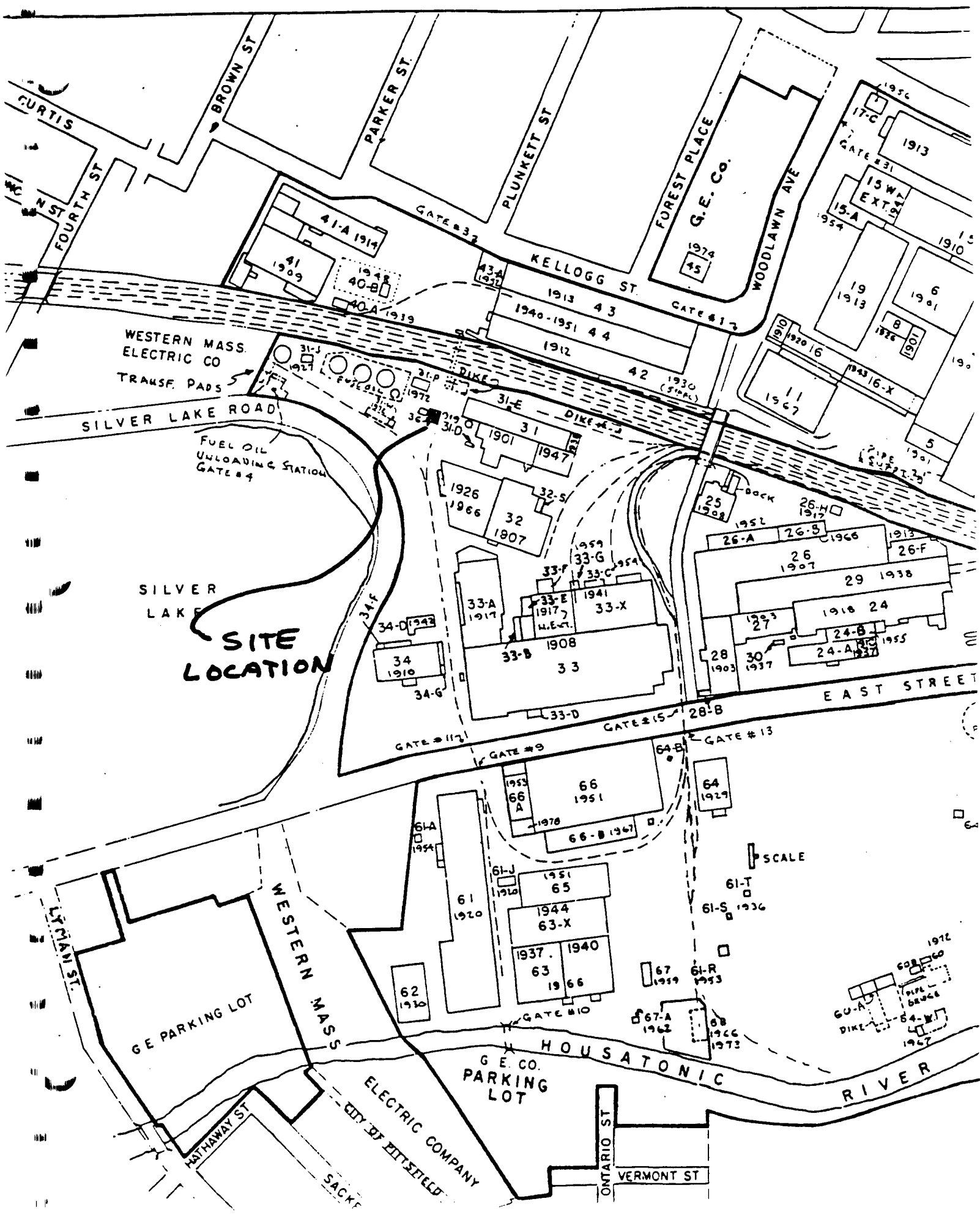
Comments:

Certification No.: 10155

Units: mg/kg

Authorized: \_\_\_\_\_  
 Date: \_\_\_\_\_





**SITE LOCATION**

WESTERN MASS. ELECTRIC CO. TRANSF. PADS

FUEL OIL UNLOADING STATION GATE #4

SILVER LAKE

GE PARKING LOT

G.E. CO. PARKING LOT

ELECTRIC COMPANY

SCALE

GORRISON  
PIPE BRIDGE  
DIKE #1  
DIKE #2  
DIKE #3  
DIKE #4  
DIKE #5  
DIKE #6  
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DIKE #97  
DIKE #98  
DIKE #99  
DIKE #100

**APPENDIX J, SECTION C-25**

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Robert W. Rhoades  
Re: Misc. Sampling Altresco Bldg.31 Soil Sampling

Date: 9/25/89  
File No: 101-75-13  
cc: Grant Bowman (GE)

The following is a summary of the sample results for the P.C.B. sampling conducted on 9/21/89 outside Bldg.31. 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
ALTR-31-C1	<5	1	SOIL	COMPOSITE-GRAB	0'-7'
ALTR-31-C2	17	2	SOIL	COMPOSITE-GRAB	0'-7'
ALTR-31-C3	32	3	SOIL	COMPOSITE-GRAB	0'-7'
ALTR-31-C4	<5	4	SOIL	COMPOSITE-GRAB	0'-7'
ALTR-31-C5	11	5	SOIL	COMPOSITE-GRAB	0'-7'
ALTR-31-C6	<5	6	SOIL	COMPOSITE-GRAB	0'-7'
ALTR-31-C7	<5	7	SOIL	COMPOSITE-GRAB	0'-7'

NOTE: SAMPLING PROGRAM WAS CONDUCTED ON A COMPOSITE-GRAB SAMPLE BASIS. INDIVIDUAL SAMPLES WERE COLLECTED AT A DEPTH OF 0'-2.5', 2.5'-5', 5'-7', AND COMPOSITED ON AN EQUAL WEIGHT BASIS FOR TOTAL P.C.B. ANALYSIS.





1 2 3 4

# PRELIMINARY

# Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-13

DATE COLLECTED See Below DATE REC'D. 9/21/89 DATE ANALYZED 9/21/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/kg wet wt.	PCTS (%)	Total PCB mg/kg dry wt.	COMMENTS	QC RESULTS
ALTR-31-C1	9/21/89	9/21/89	4	84.6	<5,	Soil	A
C2			14	82.5	17	Composites	↓
C3			26	82.5	32		
C4			4	86.5	<5,		
C5			9.2	82.9	11		
C6			<3	88.6	<5,		
C7			<3	87.9	<5,		
A) Duplicate of ALTR-31-C7			<3	87.9	<5 vs <5		
Lab Blank 2	9/21/89		—	—	<5,		

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

Units: mg/l (ppm) unless otherwise noted

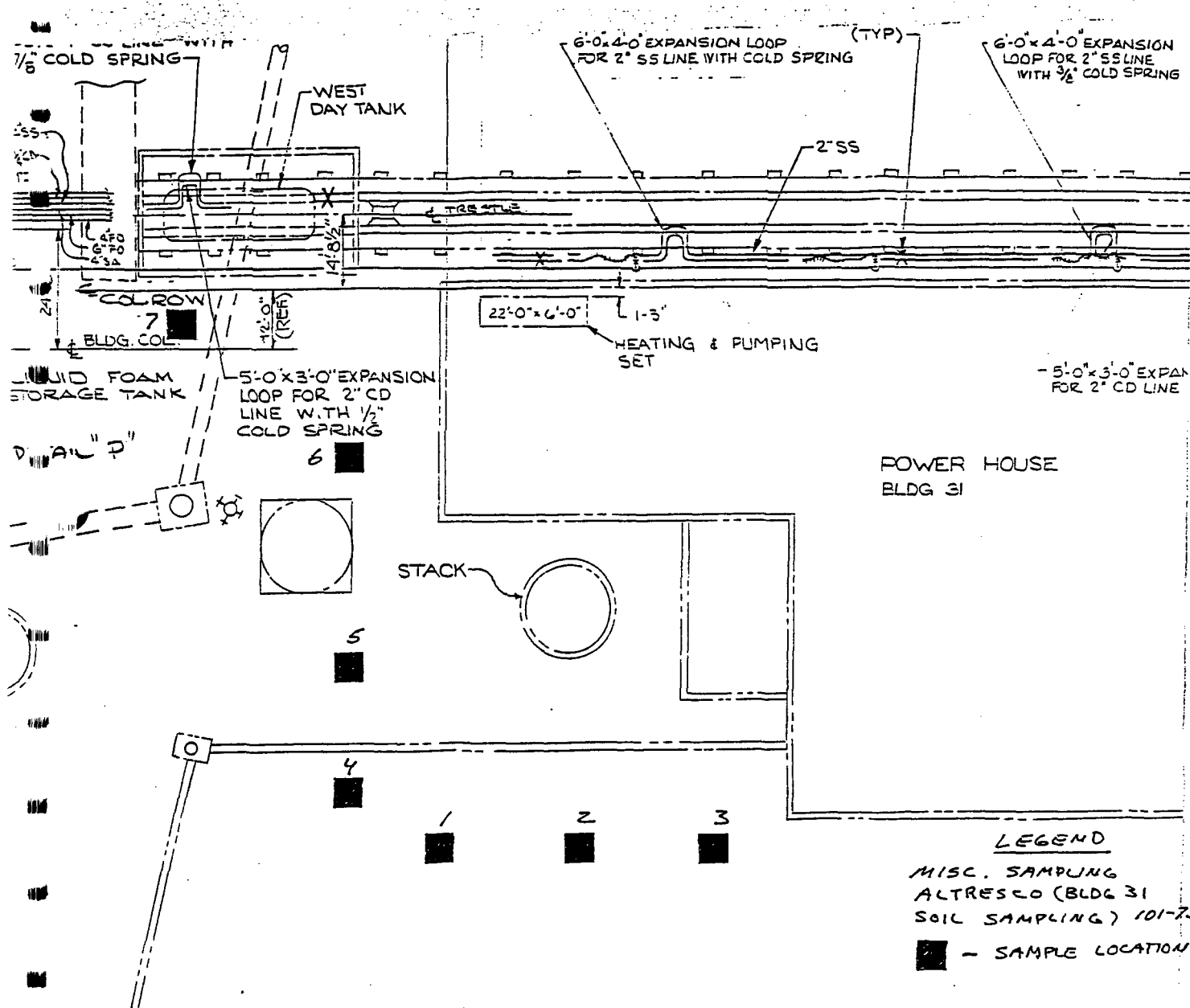
Comments:

Authorized: \_\_\_\_\_

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

Date: \_\_\_\_\_





**LEGEND**

- MISC. SAMPLING
- ALTRESCO (BLDG 31
- SOIL SAMPLING) 101-75-13
- - SAMPLE LOCATION

APPENDIX J, SECTION C-26

# PRELIMINARY

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

To: Files

Date: 9-28-92

From: Bruce Eulian

File No: 101-75-22

Re: Bldg.36V Electric Line \  
Footings Excavatiion Sampling

INITIATOR: Aimee Cole (GE)

DATE: 9-28-92

BLDG. LOCATION: Bldg.36V (South Side) Outside

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

2.) Concrete

PURPOSE: To collect samples for GE to determine the proper disposal method for the soil and concrete that was generated during an excavation for the Bldg.36V Electric Line \  
Footings at Bldg.36V.

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

1.) Soil from the excavation for the Bldg.36V Electric Line \  
Footings is to be sampled for PCB's using Method 8080.

2.) Concrete from the excavation for the Bldg.36V Electirc Line \  
Footings is to be sampled for PCB's using Method 8080.

3.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

4.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be analyzed for VOC's using Method 8240 as described in the document entitled "Protocols For The Management Of Excavated Activites", dated April 1990.

5.) At the request of GE the samples are to be analyzed by OBG Laboratories in Pittsfield,Mass.

rfh

# PRELIMINARY

DELIVERED TO GRANT  
BOWMAN (GE)  
11-4-92

BLASLAND AND BOUCK ENGINEERS P.C.

## SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg. 36V Electric Line \  
Footings Excavation Sampling

Date: 9-29-92  
File No: 101-75-22  
cc: Grant Bowman (GE)  
Robert Rhoades (B&B)

The following is a summary of samples (Table 1) collected on 9-28-92 from soil and concrete generated during an excavation for the Bldg. 36V Electric Line \ Footings. Approximately 12.8 cu. yards of soil and approximately 3.1 cu yds of concrete were generated during the excavation.

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

- \* Pile #1 which measured approx. 12.2 cu. yards of soil, four discrete-grab samples were taken and analyzed for PCB's using method 8080.
- \* Pile #2 which measured approx. 0.66 cu. yards of concrete, three discrete-grab samples were taken and analyzed for PCB's using method 8080.
- \* Pile #3 which measured approx. 3.1 cu. yards of soil, one discrete-grab sample was taken and analyzed for PCB's using method 8080.

At the request of Aimee Cole (GE) 3 discrete-grab samples of soil and (1) discrete-grab sample of asphalt were collected and analyzed discretely for PCB's using Method 8080. All soils were screened with a calibrated PID meter and found to be <10 PPM, therefore the soil did not have to be analyzed for VOC's using Method 8240 as described in the document entitled "Protocols for the Management of Excavation Activities," dated April 1990.

Drawings showing the site location (Figure 1) and the sample locations (Figure 2) have been included. A preliminary analytical report provided by OBG Laboratories (Attachment 1) has also been included. In addition, a calibration form (Attachment 2) and the soil screening results (Attachment 3) have also been provided.

hme

# PRELIMINARY

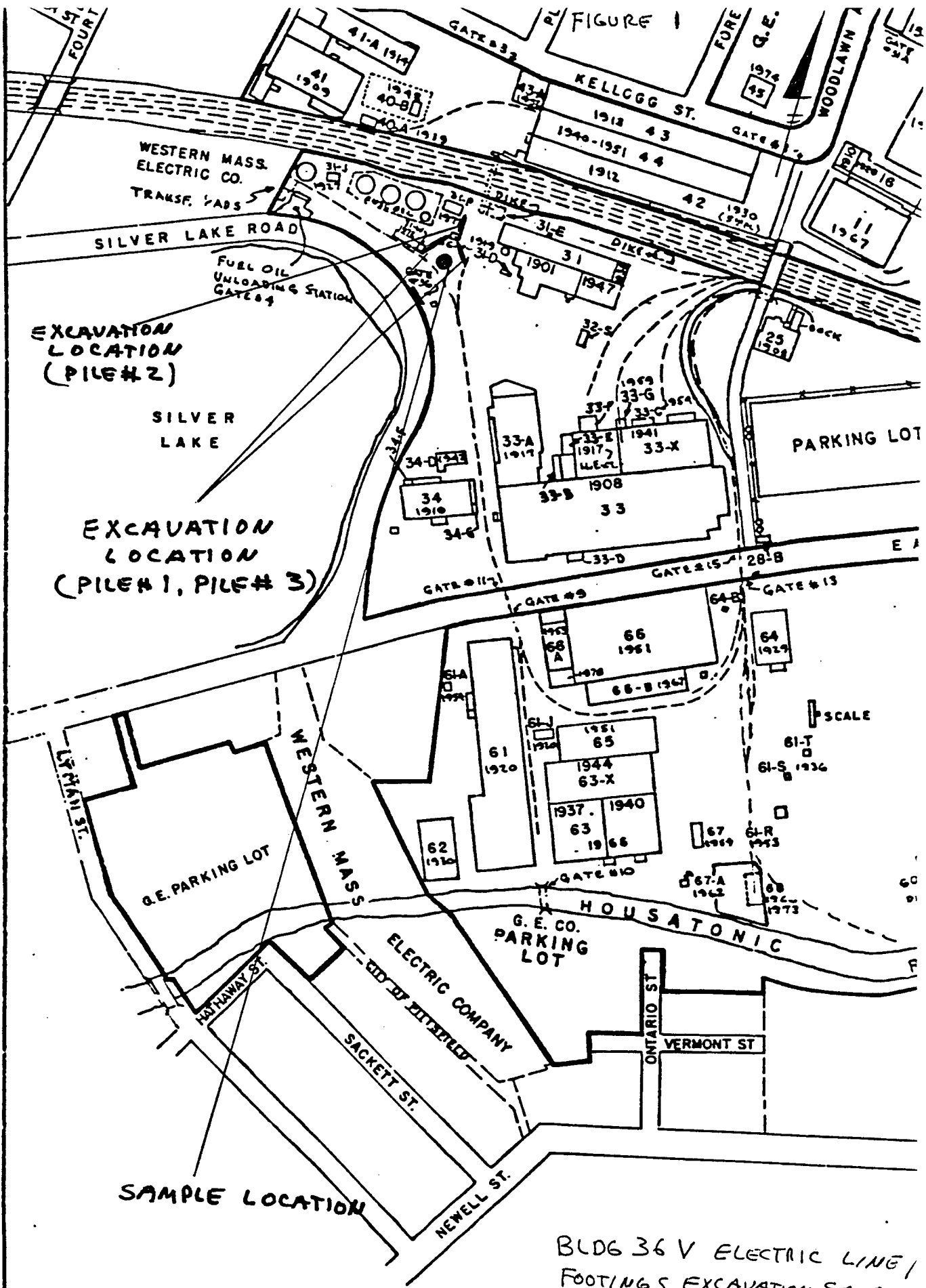
Bldg. 36V Electric Line \  
Footings Excavation Sampling  
101-75-22

Table 1

PCB SAMPLING RESULTS METHOD 8380

LAB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
<u>PILE #1</u>							
36V-EL\F-C1	09-28-92	200.0	1	SOIL	DISCRETE-GRAB	0"-12"	2
36V-EL\F-C2	09-28-92	4.3	2	SOIL	DISCRETE-GRAB	12"-24"	2
36V-EL\F-C3	09-28-92	71.0	3	SOIL	DISCRETE-GRAB	0"-12"	2
36V-EL\F-C4	09-28-92	19.0	4	SOIL	DISCRETE-GRAB	12"-24"	2
<u>PILE #2</u>							
36V-EL\F-C5	09-28-92	110.0	5	SOIL	DISCRETE-GRAB	0"-12"	2
<u>PILE #3</u>							
36V-EL\F-C6	09-28-92	<1.0	6	CONCRETE	DISCRETE-GRAB (see note)	0"-1"	2
36V-EL\F-C7	09-28-92	<1.0	7	CONCRETE	DISCRETE-GRAB (see note)	0"-1"	2
36V-EL\F-C8	09-28-92	<1.0	8	CONCRETE	DISCRETE-GRAB (see note)	0"-1"	2

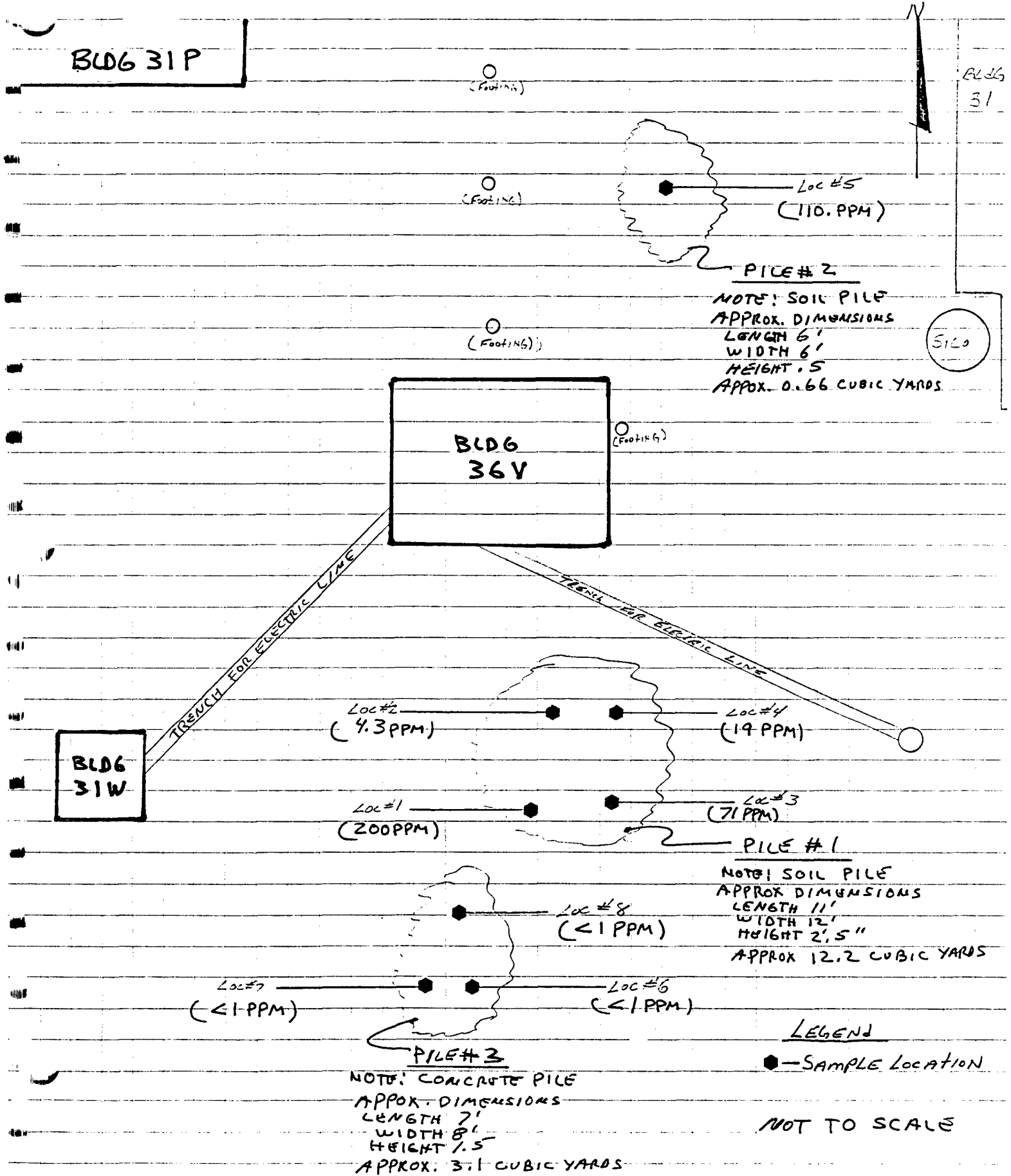
Note: Core could not be collected due to size of concrete. Individual samples were accumulated and pulverized into a sample for analysis.



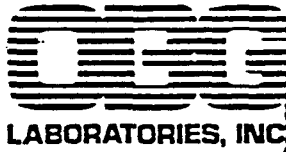
BLDG 36 V ELECTRIC LINE /  
 FOOTINGS EXCAVATION SAMPLE  
 101-75-22



SUBJECT BLDG 36V ELECTRIC LINE / FOOTINGS EXCAVATION SAMPLING	PROJ. NO. 101-75-22	BY RH	DATE 9-28-92	SHEET 10F1
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ATTACHMENT 1



PRELIMINARY  
4084  
SEP 30 1992

# Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520  
 DESCRIPTION G.E., Pittsfield Job No. 101-75-22  
36V Electric Line / Footing Excavation Sampling  
 Date Analyzed 9/29 → 9/30/92 DATE COLLECTED See Below DATE RECEIVED 9/28/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
36V-EL/F-C1	9/29/92	9/28/92	180	90	200	soil	A
-C2			4.1	95	4.3		
-C3			63	89	71		
-C4			17	91	19		
-C5			98	90	110		
-C6					<1	concrete	B
-C7					<1		
-C8					<1		

A) Reagent Blank 092992-1

Reference Sample 092992-1

Matrix Spike OP3-CT-C7:

Matrix Spike Duplicate:

Precision:

7.7/10 = 77%  
 2.7/3.3 = 82%  
 2.7/3.3 = 82%  
 2.7 vs 2.7 = 0% RPD

B) Reagent Blank 092992-1

Reference Sample 092992-1:

Matrix Spike 36V-EL/F-C8:

Matrix Spike Duplicate:

Precision:

7.7/10 = 77%  
 7.5/10 = 75%  
 7.4/10 = 74%  
 7.5 vs 7.4 = 1.3% RPD

Comments:

Certification No.:

Units: mg/Kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

ATTACHMENT 2

HNU CALIBRATION

DATE: 9-28-92  
OPERATOR: R HUTHER

HNU SERIAL NO: 27107  
eV OF PROBE: 10.2

CALIBRATION GAS:                    9.8 span setting @ 57.0 ppm

INITIAL READING:                    9.8 span setting @ 57.0 ppm

ADJUSTED SETTING:                    \_\_\_\_\_ span setting @ \_\_\_\_\_ ppm

NOTES:

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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	FIELD METHOD USED						REMARKS	
LAB ID		CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB Soil	SAMPLE TYPE										
							SOLID on block	WIPE									WATER
101-75-22		36V ELECTRICAL LINE/FOOTINGS EXCAVATION SAMPLING															
36V-EL/F-C1			9/18/92	1045		X				1	X						
36V-EL/F-C2				1100		X				1	X						
36V-EL/F-C3				1115		X				1	X						
36V-EL/F-C4				1130		X				1	X						
36V-EL/F-C5				1145		X				1	X						
36V-EL/F-C6				1200			X			1	X						
36V-EL/F-C7				1215			X			1	X						
36V-EL/F-C8				1230			X			1	X						
SAMPLER BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)				RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)					
<i>Bruce Eulian</i>		9/18/92 1230		<i>Bruce Eulian</i>				<i>Bruce Eulian</i>		9/28/92 1700							
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							
				<i>Maureen Sweller</i>				9/28/92 1700		sent to Pittsfield 10086							



APPENDIX J, SECTION C-27

DELIVERED 8-24-89  
TO GRANT BOWMAN  
(GE)

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files  
From: Robert W. Rhoades  
Re: Storm Sewer Sampling

Date: 8/15/89  
File No: 101-75-01  
cc: Grant Bowman (GE)

The following is a summary of the sample results for the P.C.B. sampling conducted on 8/4/89 through 8/8/89 in the storm sewers at locations identified by G.E. throughout the plant. 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
SS-C1	5.5	C1	SEDIMENT	DISCRETE-GRAB
SS-C2	45	C2	SEDIMENT	DISCRETE-GRAB
SS-C3	5.6	C3	SEDIMENT	DISCRETE-GRAB
SS-C4	8.4	C4	SEDIMENT	DISCRETE-GRAB
SS-C5	1000	C5	SEDIMENT	DISCRETE-GRAB
SS-C6	12	C6	SEDIMENT	DISCRETE-GRAB
SS-C7	89	C7	SEDIMENT	DISCRETE-GRAB
SS-C8	12	C8	SEDIMENT	DISCRETE-GRAB
SS-C9	44	C9	SEDIMENT	DISCRETE-GRAB
SS-C10	6.4	C10	SEDIMENT	DISCRETE-GRAB
SS-C11	12	C11	SEDIMENT	DISCRETE-GRAB

RWR/bee



1172

# Laboratory Report

PRELIMINARY

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-01

DATE COLLECTED See Below DATE REC'D. 8/8/89 DATE ANALYZED 8/9/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS (%)	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
SS-C1	8/9/89	8/7/89	4.3	77.8	5.5	Sediments	A
C6			7.8	66.5	12		
C7			64	71.9	89		
C8			9.2	79.5	12		
C9			32	72	44		
C10		8/8/89	5.7	89.2	6.4		
C11			8.8	74.2	12		
A) Matrix Spike of SS-C9			—	69.3	$\frac{3.29}{3.34} =$	99%	Recovery
Lab Blank 1 8/9/89			—	—	<5.		

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

Units: mg/(ppm) unless otherwise noted

Comments:

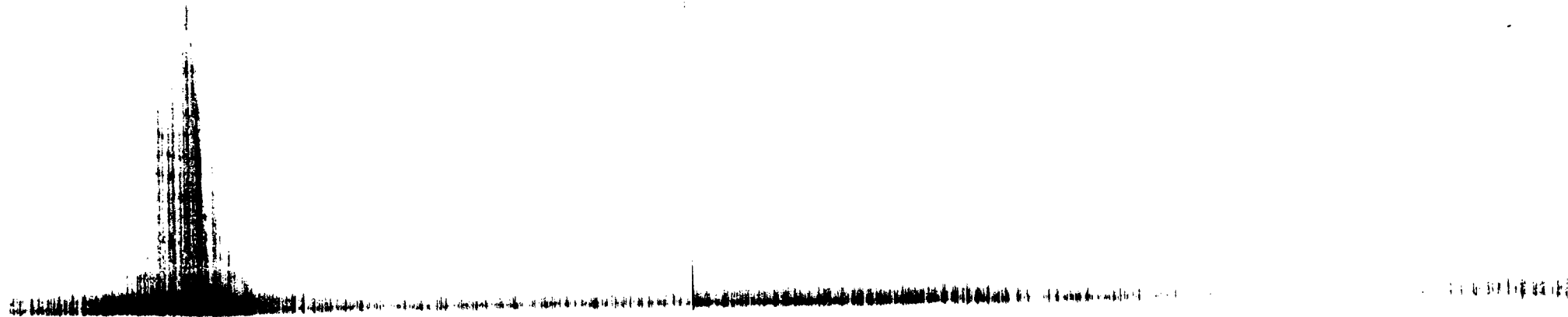
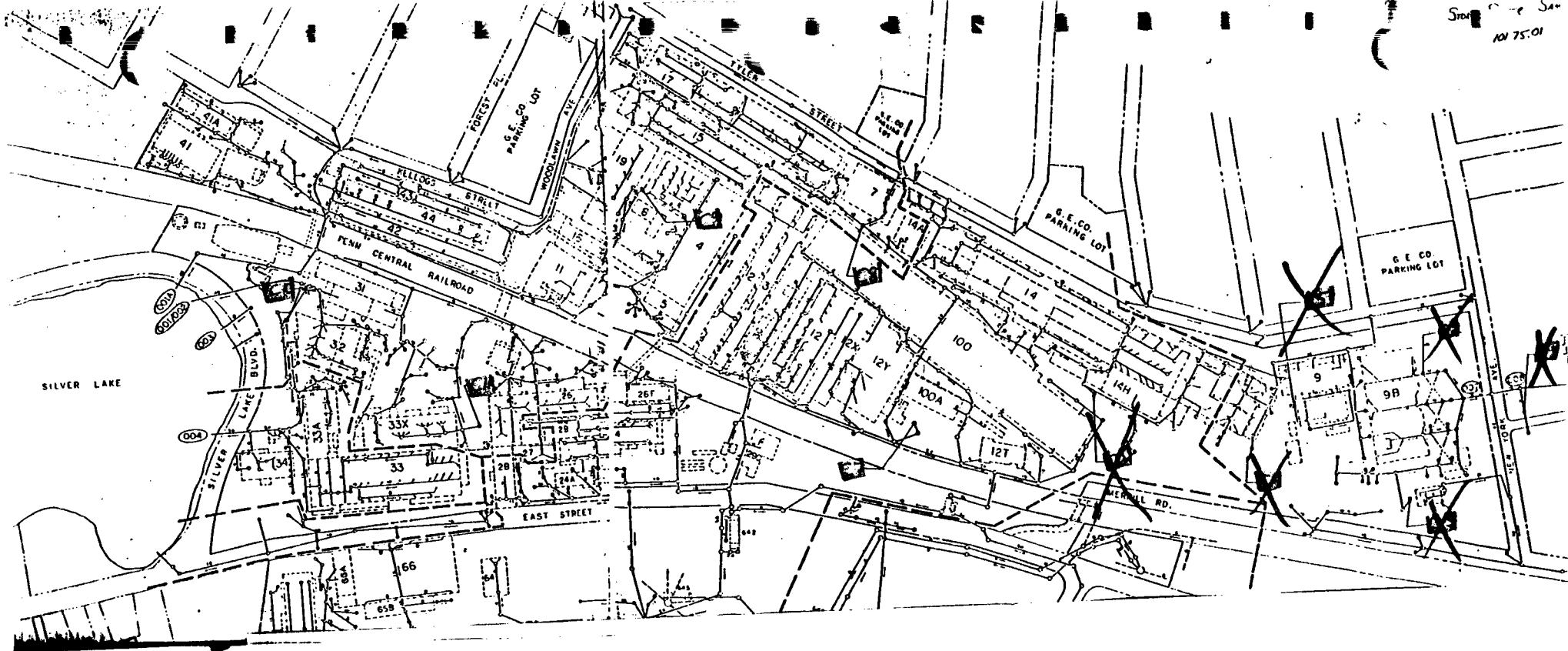
Authorized: \_\_\_\_\_

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

Date: \_\_\_\_\_



Sheet 101 75.01



APPENDIX J, SECTION C-28

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

To: Files

Date: 9-29-92

To: Bruce Eulian

File No: 101-75-22

Re: Bldg.31 Steam Tunnel Entry  
Excavation Sampling

INITIATOR: Aimee Cole (GE)

DATE: 9-28-92

BLDG. LOCATION: Bldg.31 (Southeast side)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

- 1.) Soil
- 2.) Concrete

PURPOSE: To collect samples for GE to determine the proper disposal method for the soil and concrete that was generated during the excavation for the Bldg.31 Steam Tunnel Entry .

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

1.) Soil from the excavation for the Bldg.31 Steam Tunnel Entry is to be sampled for PCB's using Method 8080.

2.) Concrete from the excavation for the Bldg.31 Steam Tunnel Entry is to be sampled for PCB's using Method 8080.

3.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

4.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be analyzed for VOC's using Method 8240 as described in the document entitled "Protocols For The Management Of Excavated Activites", dated April 1990.

5.) At the request of GE the samples are to be analyzed by OBG Laboratories in Pittsfield, Mass.

rfh

# PRELIMINARY

DELIVERED TO GRANT

BOWMAN (GE)

10-23-92

BLASLAND AND BOUCK ENGINEERS P.C.

## SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Bldg.31 Steam Tunnel Entry  
Excavation Sampling

Date: 9-29-92  
File No: 101-75-22  
cc: Grant Bowman (GE)  
Robert Rhoades (B&B)

The following is a summary of samples (Table 1) collected on 9-23-92 from soil and concrete generated during an excavation for the Bldg.31 Steam Tunnel Entry Excavation. Approximately 7.1 cubic yards of soil and approximately 9.1 cubic yards of concrete were generated during the excavation.

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

- \* Pile #1 which measured approximately 0.55 cubic yards of soil, 1 discrete-grab sample was taken and analyzed discretely for PCB's using method 8080.
- \* Pile #2 which measured approximately 6.6 cubic yards of soil, 2 discrete-grab samples were taken and analyzed for PCB's using method 8080.
- \* Pile #3 which measured approximately 8.5 cubic yards of concrete, 2 discrete-grab samples were taken and analyzed for PCB's using method 8080.
- \* Pile #4 which measured approximately 0.66 cubic yards of concrete, 2 discrete-grab samples were taken and analyzed for PCB's using method 8080.

Drawings showing the site location (Figure 1) and the sample locations (Figure 2) have been included. A preliminary analytical report provided by OBG Laboratories (Attachment 1) has also been included. In addition, a calibration form (Attachment 2) and the soil screening results (Attachment 3) have also been provided.



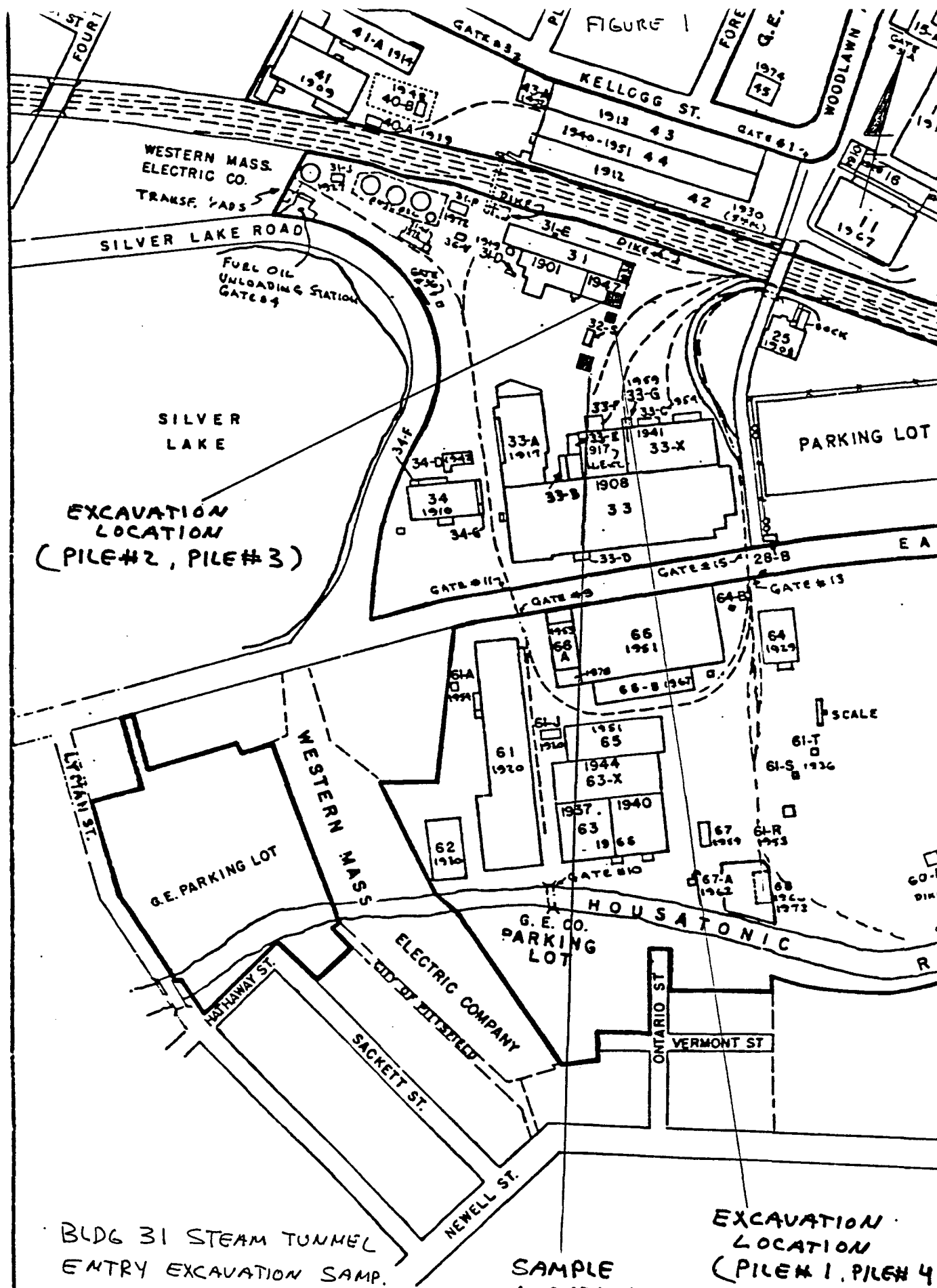
Bldg. 31 Steam Tunnel Entry  
Excavation Sampling  
101-75-22

Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
<u>PILE#1</u>							
STE-31-01	09-26-92	10.0	1	SOIL	DISCRETE-GRAB	0-12"	2
<u>PILE#2</u>							
STE-31-02	09-26-92	<1.0	2	SOIL	DISCRETE-GRAB	12"-24"	2
STE-31-03	09-26-92	<1.0	3	SOIL	DISCRETE-GRAB	0-12"	2
<u>PILE#3</u>							
STE-31-04	09-28-92	3.3	4	CONCRETE	DISCRETE-FULL CORE	CRUSHED	2
STE-31-05	09-28-92	1.6	5	CONCRETE	DISCRETE-FULL	CRUSHED	2
<u>PILE#4</u>							
STE-31-06	09-26-92	1.3	6	CONCRETE	DISCRETE-FULL CORE	CRUSHED	2

FIGURE 1



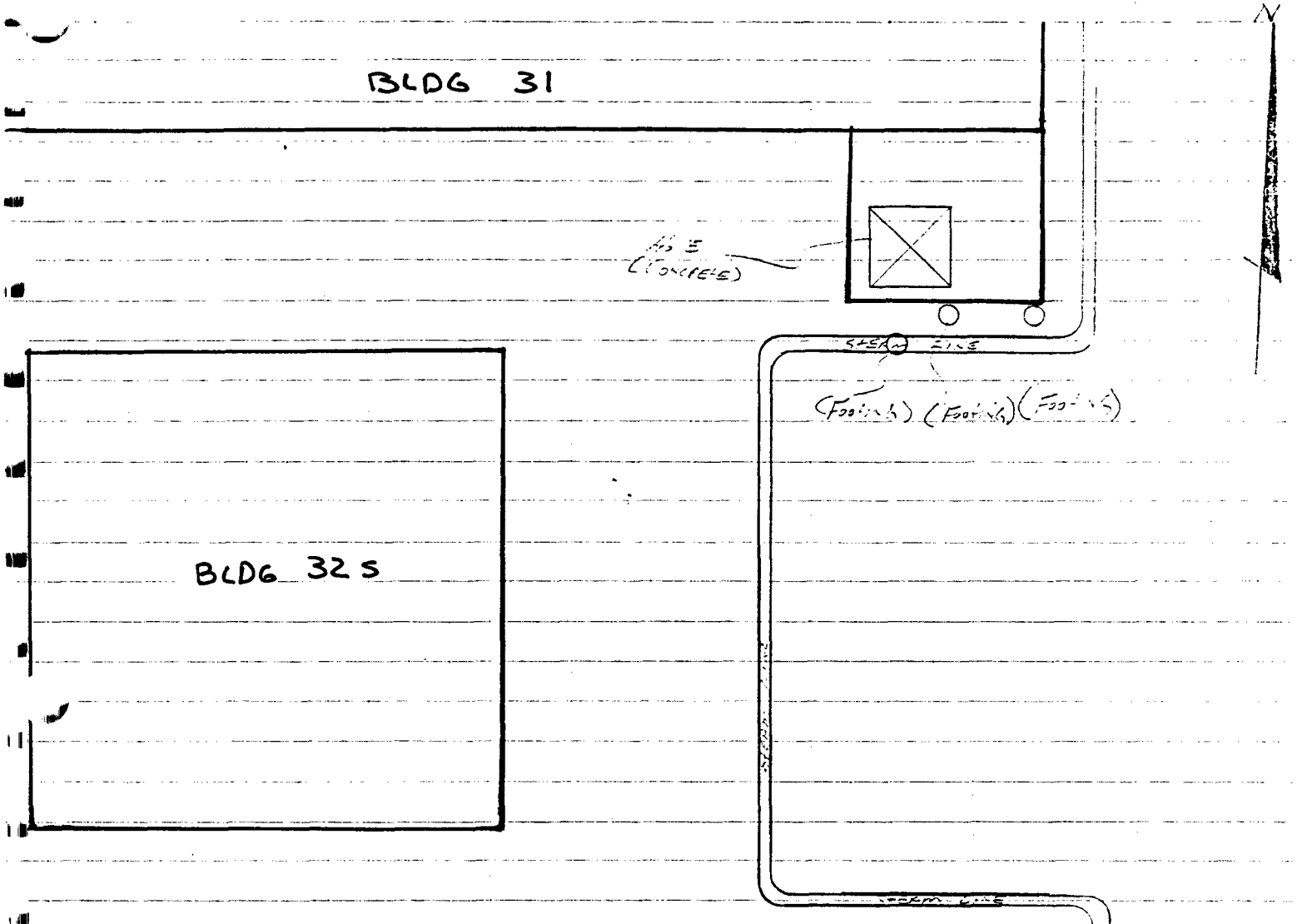
EXCAVATION LOCATION (PILE #2, PILE #3)

EXCAVATION LOCATION (PILE #1, PILE #4, PILE #5)

BLDG 31 STEAM TUNNEL ENTRY EXCAVATION SAMP. 101-75-22

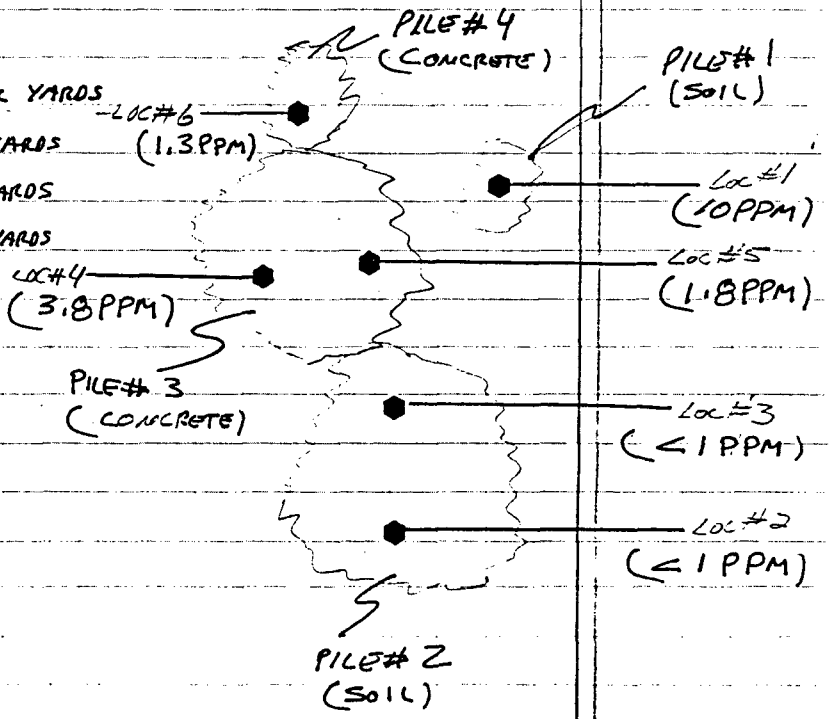
SAMPLE LOCATION

PROJECT	PROJ. NO.	BY	DATE	SHEET
STEAM TUNNEL ENTRY EXCAVATION (BLDG 31 Southeast Side) SAMPLING	101-75-22	LRH	9-29-92	105/1



NOTE: APPROX. DIMENSIONS

- PILE #1 L 5' W 3' H 1' APPROX. 0.55 CUBIC YARDS
- PILE #2 L 8' W 9' H 2.5' APPROX. 6.6 CUBIC YARDS
- PILE #3 L 7' W 11' H 3' APPROX. 8.5 CUBIC YARDS
- PILE #4 L 6' W 3' H 1' APPROX. 0.66 CUBIC YARDS



LEGEND

● SAMPLE LOCATION

NOT TO SCALE

ATTACHMENT 1



4083

PRELIMINARY

SEP 30 1992

# Laboratory Report

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

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

Bldg. 31 Steam Tunnel Entry Excavation

Date Analyzed 9/29/92 → 9/30/92 DATE COLLECTED See Below DATE RECEIVED 9/28/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
ste-31-C1	9/29/92	9/28/92	8.8	87	10	soil	A
-C2			<1	97	<1	↓	↓
-C3			(.272) <1	97	<1	↓	↓
-C4					3.8	concrete	B
-C5					1.8	↓	↓
-C6					1.3	↓	↓
A) Reagent Blank 092992-1							
Reference Sample 092992-1					7.7/10 = 77%		
Matrix Spike OP3-CT-C7					2.7/3.3 = 82%		
Matrix Spike Duplicate:					2.7/3.3 = 82%		
Precision					2.7 vs 2.7 = 0% RPD		
B) Reagent Blank 092992-1							
Reference Sample 092992-1					7.7/10 = 77%		
Matrix Spike 36V-EL/F-C8					7.5/10 = 75%		
Matrix Spike Duplicate:					7.4/10 = 74%		
Precision					7.4 vs 7.5 = 1.3% RPD		

Comments:

Certification No.:

Units: mg/Kg = ppm

Authorized: \_\_\_\_\_

Date: \_\_\_\_\_

ATTACHMENT 2

HNU CALIBRATION

DATE: 9-28-92  
OPERATOR: R. H. YER

HNU SERIAL NO: A27107  
eV OF PROBE: 10.2

CALIBRATION GAS:            9.8 span setting @ 57 ppm

INITIAL READING:            9.8 span setting @ 57 ppm

ADJUSTED SETTING:            \_\_\_\_\_ span setting @ \_\_\_\_\_ ppm

NOTES:

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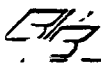
ATTACHMENT 3





APPENDIX J, SECTION C-29

ID	ANALYSIS	DATE SAMPLED	TIME SAMPLED	RESULT	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DESCRIPTION
UST-31-01-C1	(3330) PCB	11/14/90	1500	2.3 ppm	#1	GRAB LAB	SOIL FROM EXCAVATED PILE
			1504		#2	COMPOSITE	
			1508		#3		
			1512		#4		
			1516		#5		
UST-31-01-C2	(418.1) TPH	11/14/90	1530	19 ppm	#1	GRAB FIELD	
					#2	COMPOSITE	
					#3		
					#4		
					#5		
UST-31-01-C3	(3330) PCB	11/14/90	1535	1.9 ppm	#6	GRAB LAB	STAINED SOIL
			1540		#7	COMPOSITE	
UST-31-01-C4	(418.1) TPH	11/14/90	1545	22 ppm	#6	GRAB FIELD	
					#7	COMPOSITE	
UST-31-01-C5	(3330) PCB	11/14/90	1550	2 ppm	#8	GRAB LAB	SOIL FROM UNDER TANK AND SIDE WALLS
			1554		#9	COMPOSITE	
			1558		#10		
			1602		#11		
			1606		#12		
UST-31-01-C6	(418.1) TPH	11/14/90	1610	25 ppm	#8	GRAB FIELD	
					#9	COMPOSITE	
					#10		
					#11		
					#12		
UST-31-01-C7	(3000) PCB	11/14/90	1630	< 2 ppm	#13	DISCRETE GRAB	CONCRETE FROM PAD ON TANK (5 HOLES)
UST-31-01-C8	(3240) VOC	11/27/90	1030	SEEG LAB RESULT	#1	DISCRETE	SOIL FROM EXCAVATE PILE
UST-31-01-C9			1040		#2	GRAB	
UST-31-01-C10			1050		#3		
UST-31-01-C11			1100		#4		
UST-31-01-C12			1110		#5		
UST-31-01-C13			1120		#6		STAINED SOIL
UST-31-01-C14			1130		#7		
UST-31-01-C15			1140		#8		SOIL FROM UNDER TANK AND SIDE WALLS
UST-31-01-C16			1150		#9		
UST-31-01-C17			1200		#10		
UST-31-01-C18			1210		#11		



SUBJECT

UST 31-01 SAMPLING

PROJ. NO.

101-92-05

BY

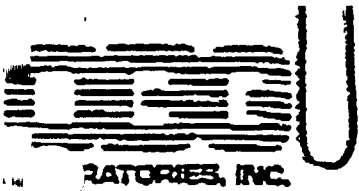
JTH

DATE

SHEET

20 of 2

8-10	ANALYSIS	DATE SAMPLED	TIME SAMPLED	RESULT	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DESCRIPTION
UST-31-01-C19	(8240) VOC	11/27/90	1220	SEE 806 LAB REPORT	#12	DISCRETE EGAB	SOIL FROM UNDER TANK AND SIDE WALLS
ST-31-01-C20	TCLP NO HERBICIDES OR PESTICIDES		1230		#1-5	SOIL FIELD COMPOSITE	EXCAVATED SOIL
ST-31-01-C21	(418.1) TAX		1240		#6-7		STAINED SOIL
UST-31-01-C22		12/13/90	1330	15 ppm	#14	DISCRETE EGAB	LAYER #1 DARK BLACK SOIL (0'-1') 1'3" DOWN 5'4" EAST
UST-31-01-C23			1335	36 ppm	#5		LAYER #2 BROWN SOIL (0'-1') 2'5" DOWN 5'4" EAST
UST-31-01-C24			1340	24 ppm	#16		LAYER #3 BLACK SOIL (0'-1') 3'11" DOWN 5'4" EAST
UST-31-01-C25			1300	6.7 ppm	#17		LAYER #1 BROWN SOIL (0'-2') 1'5" DOWN 2'5" SOUTH
UST-31-01-C26			1305	3.5 ppm	#18		LAYER #2 BROWN SOIL (0'-2') 2'5" DOWN 2'5" SOUTH
UST-31-01-C27			1315	11 ppm	#19		LAYER #3 BLACK SOIL (0'-2') 4' DOWN 2'5" SOUTH
UST-31-01-C28			1240	4.2 ppm	#20		LAYER #1 DARK BLACK SOIL (0'-2') 1'5" DOWN 7' EAST
UST-31-01-C29			1250	0.16 ppm	#21		LAYER #2 BROWN SOIL (0'-2') 2'3" DOWN 7' EAST
UST-31-01-C30			1255	0.96 ppm	#22		LAYER #3 BLACK SOIL MIXED W/CLAY (0'-2') 3'5" DOWN 7' EAST
UST-31-01-C31			1150	0.5 ppm	#23		LAYER #1 DARK BLACK SOIL (0'-2') 1'5" DOWN 3'5" SOUTH
UST-31-01-C32			1205	25 ppm	#24		LAYER #2 STAINED MOIST BROWN SOIL (0'-2') 3'5" DOWN 3'5" SOUTH
UST-31-01-C33			1220	11 ppm	#25		LAYER #3 BLACK SOIL (0'-2') 4' DOWN 3'5" SOUTH
UST-31-01-C34			1345	13 ppm	#26		BOTTOM OF PIT BROWN SOIL (0'-1') 8' SOUTH 7' EAST



LABORATORIES, INC.

FREE

5555M

SECTION LEADER: WJ  
**Laboratory Report**

BIN #: 70

CLIENT: Blasland & Buck Engineers P.C. JOB NO. 2887.026.517  
 DESCRIPTION: UST 31-01 MATRIX: Soil + 1-concrete  
Pittsfield, MA Project # 101-82-05  
 DATE COLLECTED 11-14-90 DATE RECEIVED 11-16-90

Sample #	PCB	Total * Polycyclic Aromatic Hydrocarbon	PCIS	Aroclor
UST-31-01-C1 Composite	13892	2.3	88	1260
UST-31-01-C2 Grab	93	2.9	89	1260
UST-31-01-C3 Composite	94	1.9	83	1260
UST-31-01-C4 Grab	95	20.6	85	-
UST-31-01-C5 Composite	96	2.0	82	1260
UST-31-01-C6 Grab	97	6.7	82	1260
UST-31-01-C7 (Grab) concrete	98	12	-	-

IR Spectrophotometer

Certification No.: NY034  
 Units: mg/kg dry wt.

Authorized: \_\_\_\_\_  
 Date: \_\_\_\_\_

12/11/1990 16:10



10712018 P.06  
VOLUME VIGENICS  
Method 8240

PRELIMINARY

CLIENT BIASLAND & Bouck Engineers PC JOB NO. 2887.02b.517  
DESCRIPTION UST 31-01 GE PITTSFIELD, MA. Project # 101-82-05  
SOILS  
DATE COLLECTED 11-27-90 DATE RECEIVED 11-28-90 DATE ANALYZED See Below

DESCRIPTION:	UST-31-01-C14	UST-31-01-C15	UST-31-01-C16	UST-31-01-C17	UST-31-01-C18	UST-31-01-C19
SAMPLE NO.:						
DATE Analyzed:	11-27-90	11-27-90	11-27-90	11-27-90	11-27-90	11-27-90
trans-1,3-Dichloropropene	<7300	<3800	<7100	<6	<7200	<6900
Bromocloroform	<7300	<3800	<7100	<6	<7200	<6900
Methyl-2-pentanone	<14000	<7000	<14000	<12	<14000	<14000
2-Hexanone	<14000	<7000	<14000	<12	<14000	<14000
Tetrachloroethene	<7300	<3800	<7100	<6	<7200	<6900
1,1,2,2-Tetrachloroethane						
Toluene						
Chlorobenzene						
Ethylbenzene						
Styrene						
Xylene (total)						
Other Analysis PCT'S	86	82	88	86	87	92

Comments: Elevated Detection Limits  
due to sample matrix

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

Certification No. NY034

Units: ug/kg dry wt

Page 2 of 2

12/11/1990 16:10

10712018 P.05  
TOTALIC Organics  
Method 8240



PRELIMINARY

CLIENT Bksland & Bruce Engineers P.C. JOB NO. 2887.026.517  
DESCRIPTION LIST 31-01 GE PITTSFIELD MA. Project # 101-82-05  
SOILS

DATE COLLECTED 11-27-90 DATE RECEIVED 11-28-90 DATE ANALYZED See Below

DESCRIPTION:	UST-31-01-C14	UST-31-01-C15	UST-31-01-C16	UST-31-01-C17	UST-31-01-C18	UST-31-01-C19
SAMPLE NO.:	01-C14	01-C15	01-C16	01-C17	01-C18	01-C19
DATE ANALYZED:	12-07-90	12-07-90	12-07-90	12-07-90	12-07-90	12-10-90
Chloromethane	414000	476000	414000	412	414000	414000
Bromomethane						
Vinyl chloride						
Chloroethane						
Methylene chloride	47300	43800	47100	46	47200	46900
Acetone	414000	476000	414000	44	414000	414000
Carbon disulfide	47300	43800	47100	46	47200	46900
1,1-Dichloroethane						
1,1-Dichloroethane						
1,2-Dichloroethane (total)						
Chloroform						
1,2-Dichloroethane						
2-Butanone	414000	476000	414000	412	414000	414000
1,1,1-Trichloroethane	47300	43800	47100	46	47200	46900
Carbon tetrachloride	47300	43800	47100	46	47200	46900
Vinyl acetate	414000	476000	414000	412	414000	414000
Bromodichloromethane	47300	43800	47100	46	47200	46900
1,2-Dichloropropane						
cis-1,3-Dichloropropane						
Trichloroethane						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzenes						

12/11/1990 16:09

10712018 F.84



Method 8240

**PRELIMINARY**

CLIENT Biasland & Bruce Engineers, P.C. JOB NO. 2887.026.57  
 DESCRIPTION UST 31-01 GE Pittsfield M.P. Project # 101-82-05  
 SOILS  
 DATE COLLECTED 11-27-90 DATE RECEIVED 11-28-90 DATE ANALYZED See Below

DESCRIPTION:	UST-31-01-C8	UST-31-01-C9	UST-31-01-C10	UST-31-01-C11	UST-31-01-C12	UST-31-01-C13
SAMPLE NO.:						
DATE ANALYZED:	12-27-90	12-27-90	12-27-90	12-27-90	12-27-90	12-27-90
1,1-Dichloroethene	<3500	<7000	<3800	<3800	<7200	<7300
Bromoforn	<10600	<7000	<3800	<3800	<7200	<7300
1-Methyl-2-pentanone	<13000	<14000	<7500	<7500	<14000	<14000
2-Hexanone	<13000	<14000	<7500	<7500	<14000	<14000
Tetrachloroethene	<6600	<7000	<3800	<3800	<7200	<7300
1,1,2,2-Tetrachloroethane						
Toluene						
Chlorobenzene						
Ethylbenzene						
Styrene						
Xylenes (total)						
Other Analysis P.C.T.S.	95.	89.	83.	83.	87.	86.

Comments: Elevated Detection Limits due to sample MATS.

Methodology: EPA Toxic Compound List by 8240. SW-846 November 1990, 3rd Edition

Certificate No: N4034

Unit: ug/kg Dry wt.

Page 2 of 2





**PRELIMINARY**

**Volatile Organics  
Method 8240**

CLIENT BIASIANO & BOUCE ENGINEERS P.C. JOB NO. 9887.026.517  
 DESCRIPTION UST 31-01 GE PITTSFIELD MA. Project # 101-82-05  
**SOILS**

DATE COLLECTED 11-27-90 DATE RECEIVED 11-28-90 DATE ANALYZED See Below

DESCRIPTION:	UST-31-01-08	UST-31-01-09	UST-31-01-10	UST-31-01-11	UST-31-01-12	UST-31-01-13
SAMPLE NO.:	24444	24445	24446	24447	24448	24449
DATE ANALYZED:	12-10-90	12-07-90	12-10-90	12-10-90	12-08-90	12-08-90
Chloromethane	<13000	<14000	<7500	<7500	<14000	<14000
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	<6000	<7000	<3800	<3800	<7200	<7300
Acetone	<13000	<14000	<7500	<7500	<14000	<14000
Carbon disulfide	<6000	<7000	<3800	<3800	<7200	<7300
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane (total)	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
2-Butanone	<13000	<14000	<7500	<7500	<14000	<14000
1,1,1-Trichloroethane	<6000	<7000	<3800	<3800	<7200	<7300
Carbon tetrachloride	<6000	<7000	<3800	<3800	<7200	<7300
Vinyl acetate	<13000	<14000	<7500	<7500	<14000	<14000
Bromodichloromethane	<6000	<7000	<3800	<3800	<7200	<7300
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,3-Dichloropropane	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓



# Laboratory Report

CLIENT Blastland & Bouck Engineers, PC JOB NO. 2887.026 517  
 DESCRIPTION UST 31-C1 GE, Pittsfield MA B&B # 101 82.05  
Toxicity Characteristic Leaching Procedure  
 DATE COLLECTED 11-27-90 DATE RECEIVED 11-28-90

Description	UST 31-01 C20	UST 31-01 C21
Sample #	L4456	L4457
TCAP Volatile Organics:		
BENZENE	<0.1	<0.1
CARBON TETRACHLORIDE	↓	↓
CHLOROBENZENE	↓	↓
CHLOROFORM	↓	↓
1,2-DICHLOROETHANE	↓	↓
1,1-DICHLOROETHYLENE	↓	↓
METHYL ETHYL KETONE	<6.0	<6.0
TETRACHLOROETHYLENE	<0.1	<0.1
TRICHLOROETHYLENE	↓	↓
VENYL CHLORIDE	↓	↓
Analytical Record		
Date Leachate Created	12-4-90	
Date Analyzed	12-5-90	

Comments:

Certification No. 101575 NY034

UNITED REG/1

Authorized:

Date:

12/11/1990 16:11

10/12/198 P.08



# Laboratory Report

*PRELIMINARY*

CLIENT Blastland and Boyce Engineers - P.A.C. JOB NO. 2822 02/0517  
 DESCRIPTION 115T 31-C1 GE Pittsfield MA A+B# 101 S2-D3  
Toxicity Characteristic Leaching Procedure  
 DATE COLLECTED 11/27/90 DATE RECEIVED 11/28/90

Description	C20	C21		
Sample #	L4456	L4457		
TCLP Semivolatile Organics:				
o-CRESOL	4.017	4.017		
m-CRESOL				
p-CRESOL				
CRESOL				
2,4-DICHLOROBENZENE				
2,4-DINITROTOLUENE				
HEXACHLOROBENZENE				
HEXACHLOROCYCLOHEPTADIENE				
HEXACHLOROCYCLOHEPTANE				
NITROBENZENE	W	W		
PENTACHLOROPHENOL	4.059	4.056	G	
PYRIDINE	4.12	4.112		
2,4,5-TRICHLOROPHENOL	4.0596	4.056	G	
2,4,6-TRICHLOROPHENOL	4.012	4.011		
Analytical Record:				
Date Leachate Contact	12/4/90			
Date Extracted	12/5/90			
Date Analyzed	12/6/90			

Comments

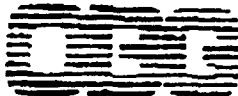
Concentration mg/L NY0314  
 Units mg/L

AUTHORIZED \_\_\_\_\_  
 Date: \_\_\_\_\_

12/11/1990 15:11

10712018 P.09

SECTION LEADER: HC



LABORATORIES, INC.

*5207*  
*5602*

# Laboratory Report

BIN #: 18

*Report 1*  
*Fig. 2.*

CLIENT: Hastand & Brock Engineers PC JOB NO. 2887-046-577  
 DESCRIPTION: WST 31-01 GE-PA Field MA B+B# 101.82.05  
 Toxicity Characteristic Leaching Procedure MATRIX: Soils  
 DATE COLLECTED: 11-27-90 DATE RECEIVED: 11-28-90

Description	020	021		
Sample #	44456	44457		
<u>T C L P</u>				
Metals:				
ARSENIC	<0.5	<0.5		
BARIUM	<10.	<10.		
CADMIUM	<0.1	<0.1		
CHROMIUM	<0.5	<0.5		
LEAD	<0.5	<0.5		
MERCURY	<0.0005	<0.0005		
SELENIUM	<0.1	<0.1		
SILVER	<0.5	<0.5		
Other Analysis:				
PERCENT TOTAL SOLIDS	83	84		
Volatiles by 8010/8020				
Volatiles by 8240				
Semivolatiles by 8270				
Pesticides by 8080				
Herbicides	↓	↓		

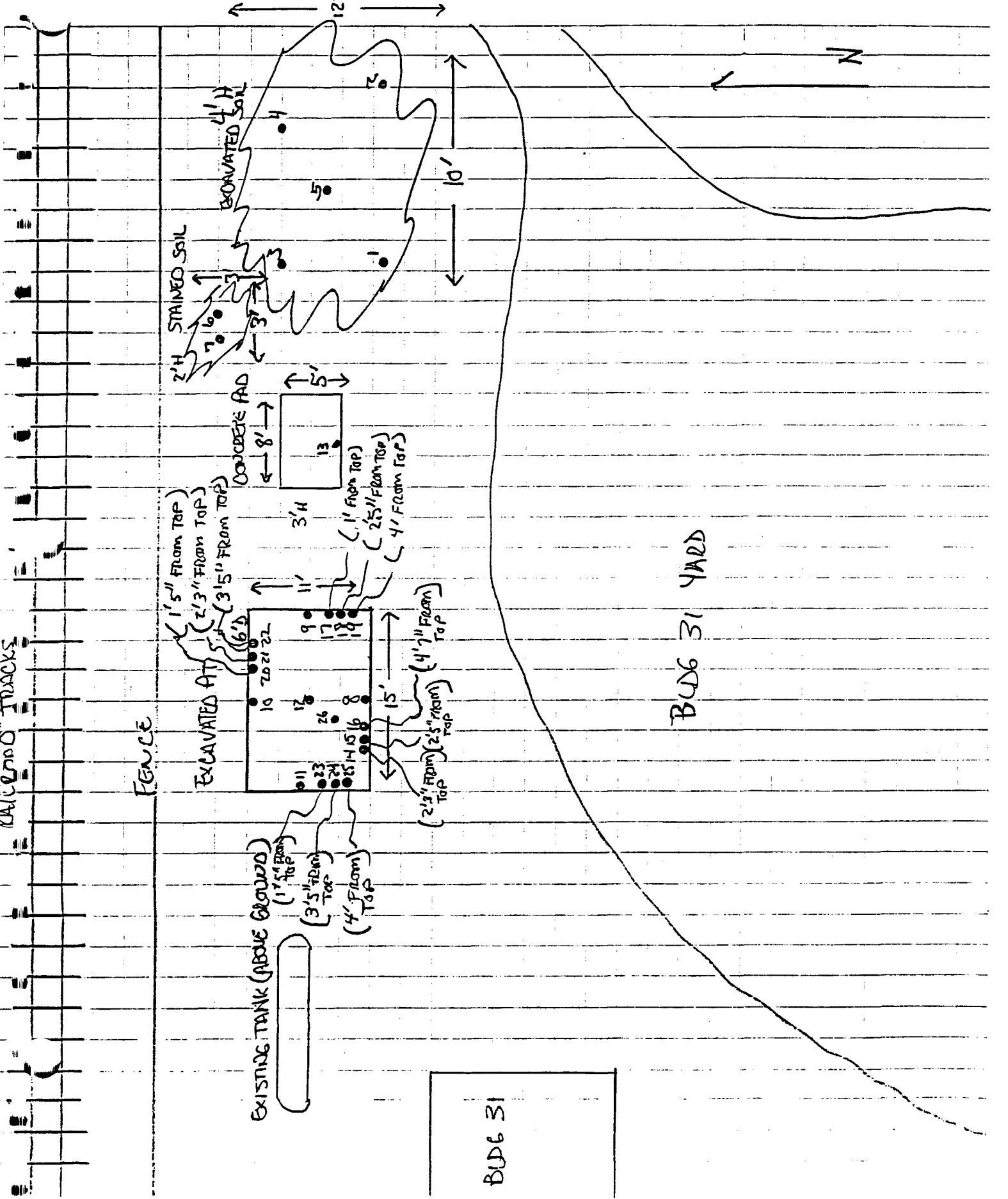
Comments:

Certification No.: NY034  
 Units: mg/l

Authorized: \_\_\_\_\_  
 Date: \_\_\_\_\_



SUBJECT	PROJ. NO.	BY	DATE	SHEET
1ST 31-01 SAMPLING	101-82-05	JJH	11-14-90	1 of 1



APPENDIX J, SECTION C-30

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

To: Files

Date: 9-2-92

From: Bruce Eulian

File No: 101-75-22

Re: Diesel Tank Removal Sampling  
(North West Outside Bldg.33X)

INITIATOR: Aimee Cole (GE)

DATE: 8-31-92

BLDG. LOCATION: Bldg 33X (North West Outside)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine the proper disposal method for the soil that was generated during an excavation for Diesel Tank Removals. See attached letter dated 8-13-92.

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

1.) Soil from the excavation for Diesel Tank Removals is to be sampled for Total Petroleum Hydrocarbons Method 418.1.

2.) GE request the samples to be analyzed at OBG Laboratories in Syracuse, NY.



8-13-92

SAMPLING REQUEST

TO: B. EULIAN B & B

FROM: AIMEE COLE GEC 

SAMPLING OF DIRT FROM DIESEL TANK REMOVALS - HISTORIC

LOCATION: NORTHWEST OUTSIDE BLDG. 33 X

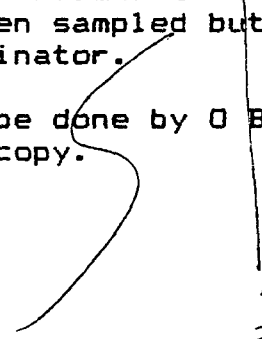
Please sample the dirt on 33 X pad for Total Petroleum Hydrocarbons. Please take ~~3 composite samples~~. This dirt has previously been sampled but no disposition was made by the project coordinator.

Analysis may be done by O B & G. A final report is necessary for the hard copy.

SEE B+B

UST 31-01 SAMPLING  
REPORT DATED

11-14-92

 **3** field Composite

**PRELIMINARY**

DELIVERED TO GRANT

- BOWMAN (GE) 10-19-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files  
From: Bruce Eulian  
Re: Diesel Tank Removal Sampling  
(North West Outside Bldg.33X)

Date: 9-2-92  
File No: 101-75-22  
cc: Grant Bowman (GE)  
Robert Rhoades (B & B)

The following is a summary of samples (Table 1) collected from soil generated during an excavation for the Diesel Tank Removal (North West Outside Bldg.33X). Approximately 20.4 cu yds of soil were generated during the excavation. At the request of Aimee Cole (GE) 3 discrete-grab samples were collected and analyzed for Total Petroleum Hydrocarbons (TPH) using Method 418.1.

Drawings showing the site location (Figure 1), and the sample locations (Figure 2) have been attached. A analytical report provided by OBG Laboratories (Attachment 1) has also been included.

Diesel Tank Removal  
Sampling  
101-75-22

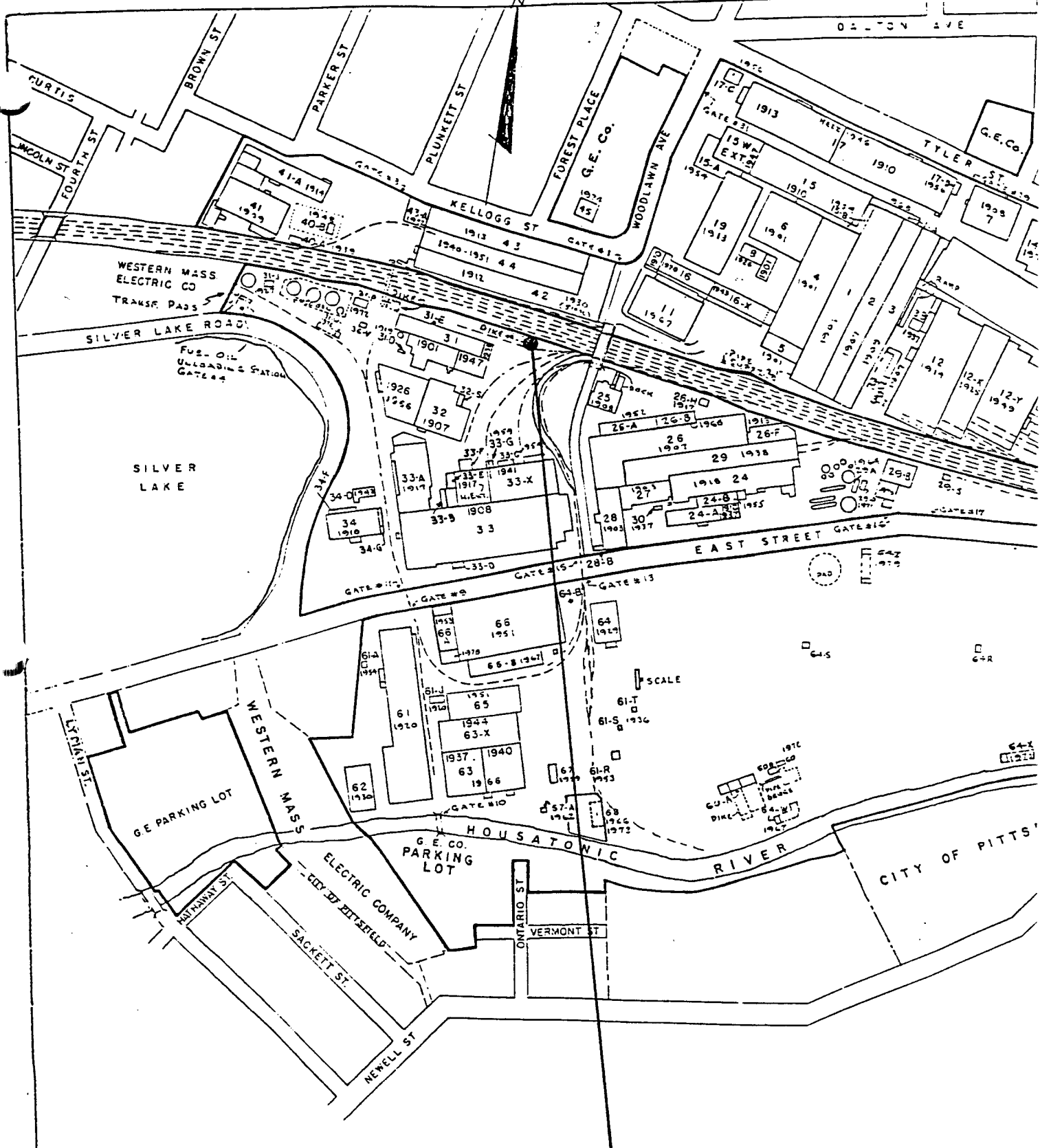
Table 1

PCB SAMPLING RESULTS METHOD 3080

LAB ID	SAMPLE DATE	TOTAL TPH PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
33X-DT-C1	08-31-92	980.	1-3	SOIL	FIELD-COMPOSITE	0-12"	2
33X-DT-C2	08-31-92	690.	4-6	SOIL	FIELD-COMPOSITE	0-12"	2
33X-DT-C3	08-31-92	790.	7-9	SOIL	FIELD-COMPOSITE	0-12"	2

Note: Discrete-grab samples were collected at each sample location and were then field composited into one sample for analysis.

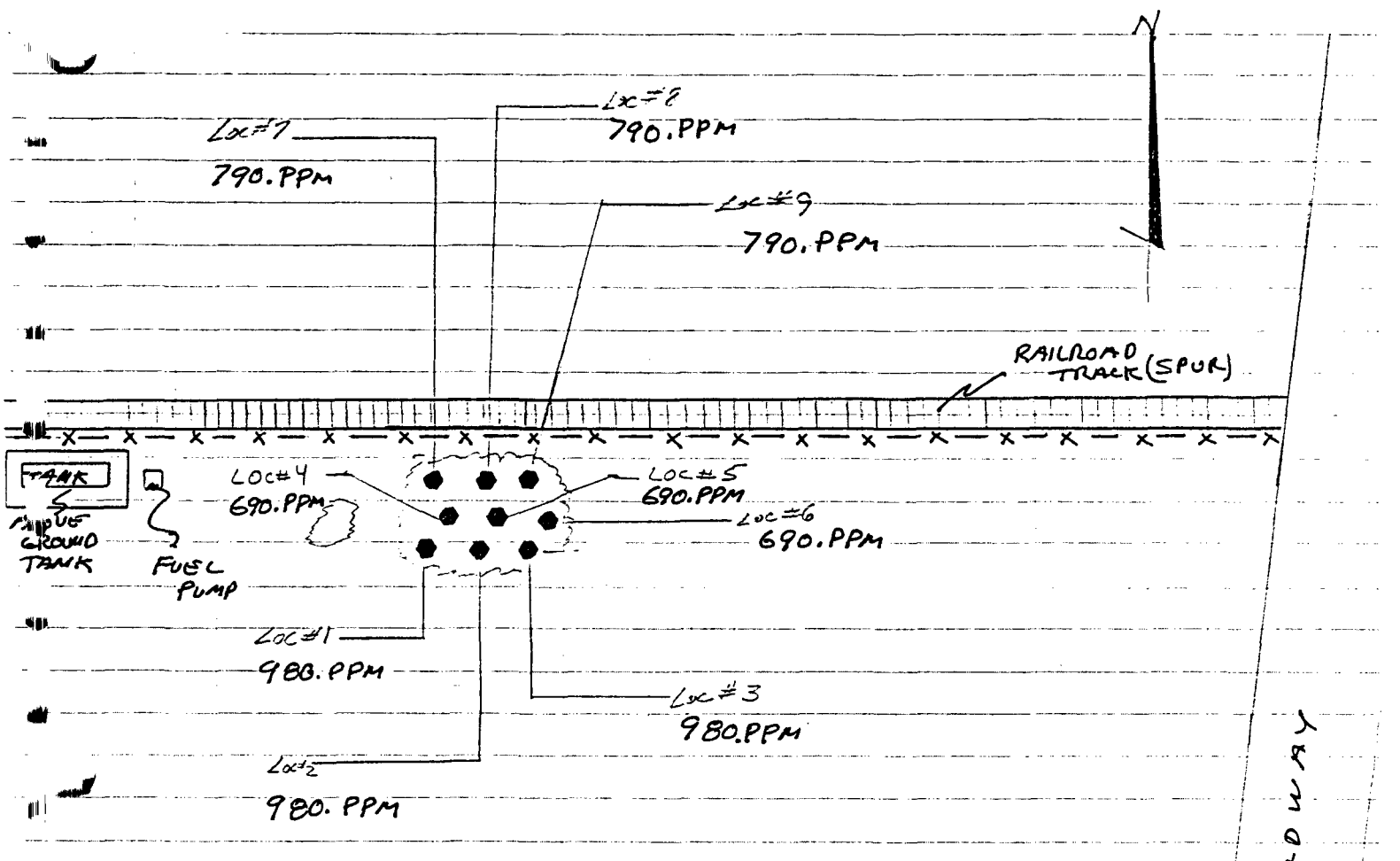
FIGURE 1



**SITE LOCATION**

DIESEL TANK REMOVAL SAMPLING  
Northwest outside 10266 33X  
101-75-22

SUBJECT	PROJ. NO.	BY	DATE	SHEET
DIESEL TANK REMOVAL SAMPLING (NORTHWEST outside BLDG 33X)	101-75-22	RH	9-2-92	10 of 1



NOTE: SOIL PILE  
 APPROX. DIMENSIONS LENGTH 10 FT  
 WIDTH 11 FT  
 HEIGHT 4.5 FT  
 APPROX 18 CUBIC YARDS

BLDG 33X

LEGEND

- - SAMPLE LOCATION
  - X- FENCE
  - ||| - RAILROAD TRACKS
- NOT TO SCALE

ATTACHMENT 1



LABORATORIES, INC.

SECTION LEADER: AC  
LDUOL OF REF. 2  
DATE SCHEDULED: 92

PRELIMINARY

# Laboratory Report

SEP 25 1992

BIN #: 10

CLIENT: Basland + Bouck Engineers, P.C. JOB NO. 28871-026-517  
DESCRIPTION: Diesel Tank Removal Sampling - B+B# 101-75-84-22  
North West Side Bldg. 334 MATRIX: Soil  
DATE COLLECTED: 8-31-92 DATE RECEIVED: 9-1-92

Sample no:	Total Petroleum Hydrocarbons	PCTS
334-DT-C1	980.	91.
- C2	690.	89.
- C3	790.	88.

Copy Check: TAA    / AC    / DRB    / MS    / ARM     
Comments:

*ABX Spectrophotometer*

Certification No.: N4034  
Units: mg./kg Dry wt.

Authorized: \_\_\_\_\_  
Date: \_\_\_\_\_