2021 Hazardous Waste Scanning Project

File Form Naming Convention.

(*File_Type*).(*Program*).(*Site_Number*).(*YYYY-MM-DD*).(*File_Name*).pdf

Note 1: Each category is separated by a period "."
Note 2: Each word within category is separated by an underscore "_"

Specific File Naming Convention Label:

Report.HW.932032.1994-04-01.Prelim_Site_Assessment_Vol2.pdf

Copy 1

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PRELIMINARY SITE ASSESSMENT EVALUATION REPORT OF INITIAL DATA

Volume II Supporting Documentation

Guterl Specialty Steel
City of Lockport

Site No. 932032
Niagara County

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233
Thomas C. Jorling, *Commissioner*

Division of Hazardous Waste Remediation
Michael J. O'Toole, Jr., *Director*

Prepared by:

ABB Environmental Services

Portland, Maine

APRIL 1994

NYSDEC SUPERFUND STANDBY CONTRACT
WORK ASSIGNMENT NO. D002472-6.1

PRELIMINARY SITE ASSESSMENT EVALUATION REPORT OF INITIAL DATA VOLUME II — SUPPORTING DOCUMENTATION

GUTERL SPECIALTY STEEL LOCKPORT, NEW YORK

SITE NO. 932032

Submitted to:

New York State Department of Environmental Conservation
Albany, New York

Submitted by:

ABB Environmental Services
Portland, Maine

April 1994

Prepared by:	Submitted by:	Approved by:
Brian K. Butler	Glenn L. Daukas, P.G.	Robert E. Handy, Jr., P.E.
Site Manager	Project Manager	NSSC Program Manager
ABB Environmental Services	ABB Environmental Services	ABB Environmental Services

GUTERL SPECIALTY STEEL SITE
PRELIMINARY SITE ASSESSMENT
EVALUATION REPORT OF INITIAL DATA
VOLUME II

TABLE OF CONTENTS

SECTION 1.0

RADIATION SURVEY

DATE: 28 October 1992 **WEATHER**: Cloudy **JOB #**: 7085-30

SITE CONDITION: Damp ground, no dust **TEMP**: Low 50's

INSTRUMENTS: Model 3 Survey Meter (sn: PR079350) w/44-9 probe which reads Alpha, Beta, and Gamma radiation.
Model 3 Survey Meter (sn: PR-87712) w/44-3 probe which reads Gamma radiation.

PERSONNEL ON SITE:

T. Hillman
B.K. Butler
N. Magliaccio
Parratt Wolfe: 1 Driller, 1 Driller's Helper

PURPOSE:

Conduct radiation monitoring in support of drilling operation at Guterl Specialty Steel.

SAMPLE LOCATION SCREENING:

The background reading at the Guterl Site was 200 counts per minute (cpm). This background was again confirmed near the center of town and at the Holiday Inn in Niagara Falls. All intended locations for drilling were surveyed prior to the drillers setting up at that location. These surveys showed only background readings. The exclusion zone set up for drilling also read only background. Location screening was conducted using the 44-3 Gamma scintillation probe.

SAMPLE SCREENING:

Samples taken from the drilling activities were also screened for radiation as well as the cuttings. All readings of the samples and checks during the drilling showed only background readings. Sample readings can be seen on the attached sheets. Samples were screened with the 44-9 probe.

SITE SURVEY:

The site survey resulted in locating three hot spots. These hot spots were outside the drilling exclusion zones. The attached site plan shows the location of these hot spots. They are listed as follows with readings in CPM and mr/hr at contact and at three ft. above the surface:

Location	@ three feet	@ contact
A	0.2 mr/hr, 400 cpm	1.1 mr/hr, 1900 cpm
B	1.0 mr/hr, 13,000 cpm	15.0 mr/hr, 30,000 cpm
C	0.2 mr/hr, 400 cpm	0.6 mr/hr, 1,000 cpm

Readings were taken with the 44-3 probe. The significance of the three foot reading is the level were potential biological damage begins to be caused on an average height human.

The hot spot readings were conveyed to Sri Maddineni of NYSDEC who in turn called his office for guidance on the matter. Due to the high readings and the potential chance of encountering radioactive material with continued drilling, NYSDEC called a stop to work.

EXIT SURVEY:

All personnel and equipment were frisked using the 44-9 probe. No readings above background were found on personnel, protective clothing, tools, augers, drill rig, and other equipment.

RECOMMENDATION:

ABB-ES health and safety plan states that when readings exceed twice the background readings or exceed 1 mr/hr operations must stop. This directive is understood to pertain to the work area of personnel (exclusion zone). The areas found were marked so that personnel would not work in these areas. The 1 mr/hr limit is set to exclude workers who are not Radiation Worker Trained and under a radiation exposure monitoring program. If during drilling, radioactive material greater than 1 mr/hr is encountered, which has been shown to exist on the site, only workers who are trained and have dosimeters can continue working. Only on individual to my knowledge meets these requirements, this could create a problem if radioactive decontamination is needed. In order to continue work on the site, a detailed Health and Safety Plan needs to be prepared that deals with Rad Decon as well as contingency plans if it is encountered.

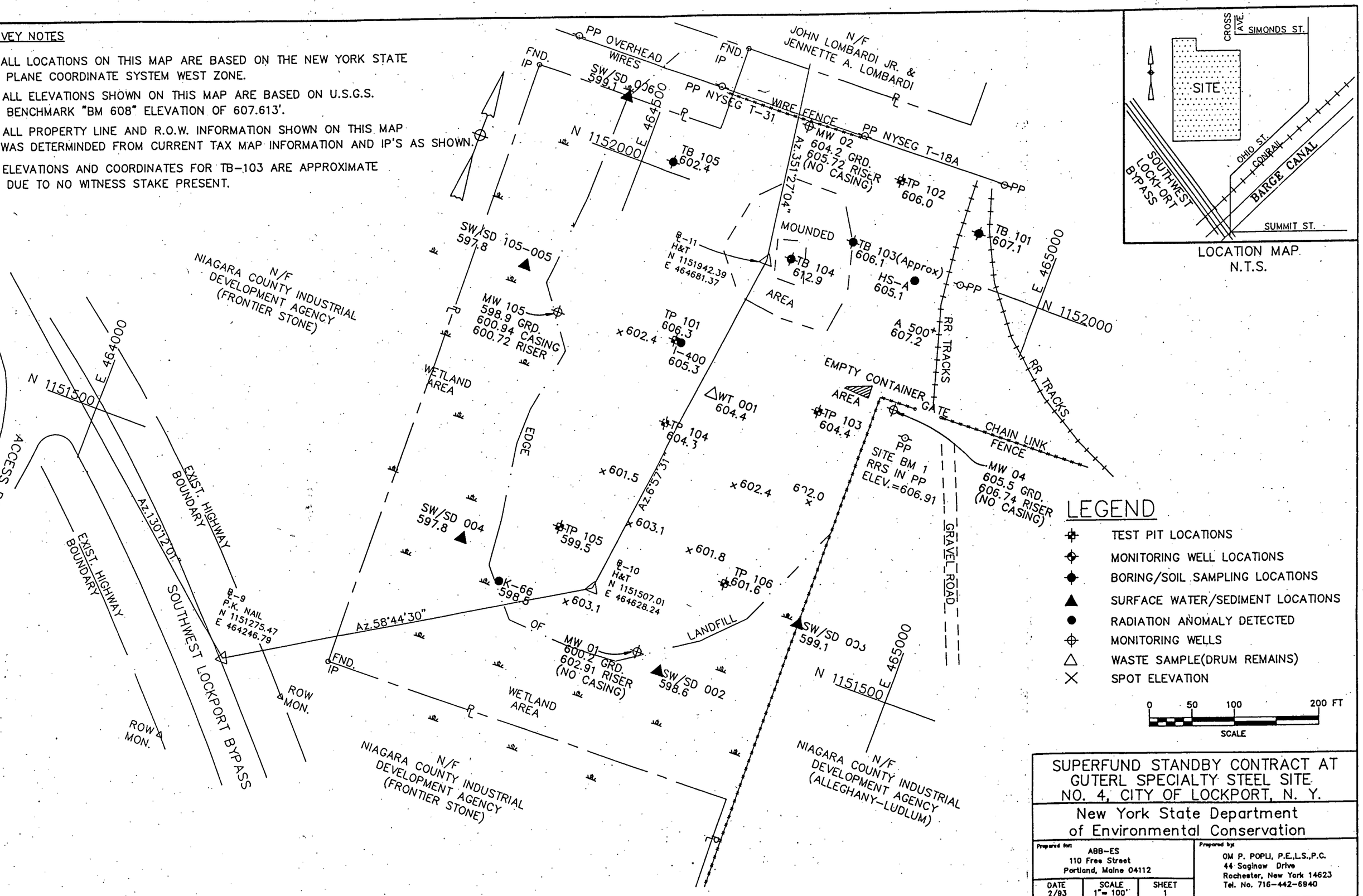
SURVEY NOTES

1.) ALL LOCATIONS ON THIS MAP ARE BASED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM WEST ZONE.

2.) ALL ELEVATIONS SHOWN ON THIS MAP ARE BASED ON U.S.G.S. BENCHMARK "BM 608" ELEVATION OF 607.613'.

3.) ALL PROPERTY LINE AND R.O.W. INFORMATION SHOWN ON THIS MAP WAS DETERMINDED FROM CURRENT TAX MAP INFORMATION AND IP'S AS SHOWN.

4.) ELEVATIONS AND COORDINATES FOR TB-103 ARE APPROXIMATE DUE TO NO WITNESS STAKE PRESENT.



LOCATION MAP
N.T.S.

LEGEND

- TEST PIT LOCATIONS
- MONITORING WELL LOCATIONS
- BORING/SOIL SAMPLING LOCATIONS
- SURFACE WATER/SEDIMENT LOCATIONS
- RADIATION ANOMALY DETECTED
- MONITORING WELLS
- WASTE SAMPLE(DRUM REMAINS)
- SPOT ELEVATION

0 50 100 200 FT
SCALE

SUPERFUND STANDBY CONTRACT AT GUTERL SPECIALTY STEEL SITE NO. 4, CITY OF LOCKPORT, N. Y.

New York State Department of Environmental Conservation

Prepared for: ABB-ES, 110 Free Street, Portland, Maine 04112

Prepared by: OM P. POPLI, P.E.,L.S.,P.C., 44 Saginaw Drive, Rochester, New York 14623, Tel. No. 716-442-6940

DATE	SCALE	SHEET
2/93	1"= 100'	1

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
28 OCT 92	B-103	200 cpm	200	
	B-103		200	
	B-103		200	
	B-103		200	
↓	B-103		200	
28 OCT 92	B-101		200	
	B-101		200	
	B-101		200	
	B-101		200	
↓	B-101		200	
28 OCT 92	B-104		200	
	B-104		200	
	B-104		200	
	B-104		200	
↓	B-104	↓	200	
28 OCT 92	B-104	200 cpm	200	

INSTRUMENT: Ludlum Model 3, Survey Meter 44-9 probe SN: PR#79350

BATT CHECK: ✓

CAL DUE DATE: 7-13-93

FIGURE 5-1
SAMPLE LOCATION SCREENING FORM

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
25OCT92	B-104	200	200	
↓	B-104	200	200	
28OCT92	MW-105	200	206	
28OCT92	MW-105	200	200	
28OCT-2	B-105	200	200	
28OCT 92	B-105	200	200	
28 OCT 92	B-105	200	200	

NSTRUMENT: _____

ATT CHECK: _____

AL DUE DATE: _____

FIGURE 5-1
SAMPLE LOCATION SCREENING FORM

DATE: 12-13 January 1993 **WEATHER**: Rain/Snow **JOB #**: 7085-30

SITE CONDITION: Snow cover with ice crust top **TEMP**: Low 30's

INSTRUMENTS: Model 3 Survey Meter (sn: 091754) w/44-9 probe which reads Alpha, Beta, and Gamma radiation.
Model 18 Survey Meter (sn: 081877) w/44-10 probe.
Model 2221 Meter (sn: 074140) w/44-10 probe.

PERSONNEL ON SITE:

T. Hillman
B.K. Butler
M. Lounsbury
M. McCleod
Two contractors conducting test pitting

PURPOSE:

Conduct radiation monitoring in support of Test Pitting, SW/SED and Groundwater sampling. A second purpose was to conduct a detailed radiation survey of the landfill at Guterl Specialty Steel.

TEST PIT, SW/SED, GW SAMPLE LOCATION SCREENING:

The background reading at the Guterl Site was 4100 counts per minute (cpm) using the Model 2221. During these operations, no readings greater than twice the background were found.

SITE SURVEY:

The site survey was sectioned into 33.33 foot grids. At each grid intersection, a radiation reading was taken using the Model 2221 meter. The results of the survey can be seen on the attached survey map. The results generally show elevated readings around the railroad tracks.

EXIT SURVEY:

All personnel and equipment were frisked using the 44-9 probe. No readings above background were found on personnel, protective clothing, tools, backhoe rig, and other equipment.

HILBERT ASSOCIATES

RADIOLOGICAL ENGINEERS AND CONSULTANTS

FAX REQUEST FORM

****

Transmittal Date 1/18/93

Number of Pages (Including Cover Sheet) 5

Confirmation Required: Yes _____ No _____

****

Attention: MEG McCLOUD Fax#: 207 772 4762

Company: ABB ENVIRONMENTAL

From: SE MILLER

Hilbert Associates, Inc. Fax Number (518) 584-8529

Confirmation Telephone Number (518) 584-0166

****

Subject/Comments/Other:

GTS Instrument Services
2045 Route 286
Pittsburgh, PA 15239-2839
412/733-1900 Fax: 412/327-8189

CALIBRATION CERTIFICATE

This Certificate will be accompanied by Calibration Charts or Readings where applicable

CUSTOMER INFORMATION

Customer Name: ABG Measurements, Inc.
Customer Address: 640 Maple Avenue
Saratoga Springs, NY 12866

Customer P.O.# 1550
Work Order # I-92-10-207

INSTRUMENT INFORMATION

Instrument Manufacturer Ludlum
Model 3 Serial Number 46966
External Probe(s) 44-9 Serial # 091754

Calibration Method (6943 DPM) MP-1 s/n 301
~~90~~Sr Y s/n 1292/89
Electrostatic s/n ES-8295

INSTRUMENT CALIBRATION INFORMATION

	Instrument Range	Calibration Standard Value	Instrument Response Before Calib.	Instrument Response After Calib.	Comment
1	X0.1	100 CPM		100 CPM	All Calibrations Btn. + & - 10%
2		200		200	
3		400		405	High Voltage = 900 Volts
4					
5	X1	1K		1.05K	~~90~~Sr Y Efficiency = 18.7%
6		2K		2.1K	
7		4K		4.2K	
8					
9	X10	10K		10.5K	
10		20K		20.8K	
11		40K		41K	
12					
13	X100	100K		100K	
14		200K		200K	
15		400K		410K	
16					
17					
18					
19					
20					
21					
22					
23					

STATEMENT OF CERTIFICATION

We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all of the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology (We are not responsible for damage incurred during shipment or use of this instrument).

Instrument Calibrated by: (Signed)
Calibration Date: 09-29-92
Next Calibration Due: 03-29-93

I certify that the above information is correct:
Administrative Coordinator
09-29-92
Date

GTS Instrument Services
2045 Route 286
Pittsburgh, PA 15239-2839
412/733-1900 Fax: 412/327-8189

CALIBRATION CERTIFICATE

This Certificate will be accompanied by Calibration Charts or Readings where applicable

CUSTOMER INFORMATION

Customer Name: ABG Measurements Inc.
Customer Address: 640 Maple Avenue
Saratoga Springs, NY 12866

Customer P.O.# 1547
Work Order # I-92-08-206

INSTRUMENT INFORMATION

Instrument Manufacturer Ludlum
Model 18 Serial Number 34282
External Probe(s) 44-10 Serial # 081877

Calibration Method MP-1 s/n 301
^{137}Cs s/n 107 100mCi
Electrostatic s/n ES-8295

INSTRUMENT CALIBRATION INFORMATION

	Instrument Range	Calibration Standard Value	Instrument Response Before Calib.	Instrument Response After Calib.	Comment
1	X1	100 CPM		100 CPM	All Calibrations Btn. + & - 10%
2		200		200	
3		400		400	High Voltage = 900 Volts
4					
5	X10	1K		1K	Calibrated with window OUT and
6		2K		2K	in HV1 ONLY
7		4K		4K	
8					.1 mR/hr = 102K CPM in ^{137}Cs field
9	X100	10K		10K	
10		20K		20K	
11		40K		40K	
12					
13	X1000	100K		100K	
14		200K		200K	
15		400K		400K	
16					
17					
18					
19					
20					
21					
22					

STATEMENT OF CERTIFICATION

We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all of the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology (We are not responsible for damage incurred during shipment or use of this Instrument).

Instrument Calibrated by: [signature] (Signed)
Calibration Date: 08-25-92
Next Calibration Due: 02-25-93

I certify that the above information is correct: [signature]
Administrative Coordinator
08-25-92
Date

GTS Instrument Services
2045 Route 286
Pittsburgh, PA 15239-2839
412/733-1900 Fax: 412/327-8189

CALIBRATION CERTIFICATE

This Certificate will be accompanied by Calibration Charts or Readings where applicable

CUSTOMER INFORMATION

Customer Name: ABG Measurements, Inc.
Customer Address: 640 Maple Avenue
Saratoga Springs, NY 12866

Customer P.O.#
Work Order # I-92-09-207

INSTRUMENT INFORMATION

Instrument Manufacturer Ludlum
Model 2221 Serial Number 86308
External Probe(s) 44-10 Serial # 074140

Calibration Method ^{137}Cs MP-1 s/n 318 s/n 10263 200mCi

INSTRUMENT CALIBRATION INFORMATION

	Instrument Range	Calibration Standard Value	Instrument Response Before Calib.	Instrument Response After Calib.	Comment
1	RATEMETER				All Calibrations Btn. + & - 10%
2	X1	100 CPM		100 CPM	
3		200		200	
4		400		400	High Voltage = 950 Volts
5					
6	X10	1K		1K	Window - OUT
7		2K		2K	
8		4K		4K	.1 mR/hr = 90K CPM in ^{137}Cs field
9					
10	X100	10K		10K	
11		20K		20K	
12		40K		40K	
13					
14	X1K	100K		100K	
15		200K		200K	
16		400K		400K	
17					
18	LOG	400		400	
19		4K		4K	
20		40K		40K	
21		400K		400K	
22					
23					

STATEMENT OF CERTIFICATION

We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all of the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology (We are not responsible for damage incurred during shipment or use of this instrument).

Instrument Calibrated by: James Christopher (Signed)
Calibration Date: 09-24-92
Next Calibration Due: 03-24-93

I certify that the above information is correct:
Theresa M. DeBar — 09-24-92
Administrative Coordinator — Date

GTS Instrument Services
2045 Route 286
Pittsburgh, PA 15239-2839
412/733-1900 Fax: 412/327-8189

CALIBRATION CERTIFICATE

This Certificate will be accompanied by Calibration Charts or Readings where applicable

CUSTOMER INFORMATION

Customer Name: ABG Measurements, Inc.
Customer Address: 640 Maple Avenue
Saratoga springs, NY 12866

Customer P.O.#
Work Order # I-92-09-207

INSTRUMENT INFORMATION

Instrument Manufacturer Ludlum
Model 2221 Serial Number 86308
External Probe(s) 44-10 Serial # 074140

Calibration Method MP-1 s/n 318
~~137~~Cs s/n 10263 200m

INSTRUMENT CALIBRATION INFORMATION

	Instrument Range	Calibration Standard Value	Instrument Response Before Calib.	Instrument Response After Calib.	Comment
1	DIGITAL RATE				All Calibrations Btn. + & - 10%
2	X1	100 CPM		100 CPM	
3		200		200	
4		400		400	
5					
6	X10	1K		1,000	
7		2K		2,002	
8		4K		3,999	
9					
10	X100	10K		10,002	
11		20K		20,000	
12		40K		40,006	
13					
14	X1K	100K		100,014	
15		200K		200,026	
16		400K		400,063	
17					
18					
19					
20					
21					
22					
23					

STATEMENT OF CERTIFICATION

We Certify that the Instrument listed above was calibrated and inspected prior to shipment and that it met all of the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology (We are not responsible for damage incurred during shipment or use of this instrument).

Instrument Calibrated by: James Christopher (Signed)
Calibration Date: 09-24-92
Next Calibration Due: 09-24-93

I certify that the above information is correct:
Theresa M. Bast — Administrative Coordinator
09-24-92 — Date

[redacted] | ACCOUNT NO | SERIES CODE | [redacted] | PROCESS | HER DATE | [redacted]ER RECEIVED | [redacted]TING T IN WORK DAYS | [redacted]AGE NO

	81120	ME		S0425A	20593	12593	9	1

ABB ENVR SERVS INC
ATTN MEG MACLEOD
BOX 7050/DOWNTOWN STAT
110 FREE STREET
PORTLAND ME 04112

RADIATION DOSIMETRY REPORT

Landauer®

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
Telephone: (708) 755-7000 Facsimile: (708) 755-7016

Accredited by the National Institute of Standards and Technol through NVLAP

2S - PR

PARTICIPANT ID NUMBER	NAME	SOCIAL SECURITY NUMBER	NOTE (SEE REVERSE SIDE)	DOSIMETER TYPE	USE	RADIATION QUALITY	EXPOSURE TO BADGE (MILLIREMS) FOR PERIOD(S) INDICATED BELOW DEEP	EXPOSURE TO BADGE (MILLIREMS) FOR PERIOD(S) INDICATED BELOW SHALLOW	CUMULATIVE TOTALS (MILLIREMS) CALENDAR QUARTER DEEP	CALENDAR QUARTER SHALLOW	YEAR TO DATE DEEP	YEAR TO DATE SHALLOW	PERMANENT DEEP	PERMANENT SHALLOW	ADJUSTMENTS	UNUSED PART OF PERMISSIBLE ACCUMULATED DOSE (MILLIREMS)	SEX
	FOR EXPOSURE PERIOD 10/01/92																
00OME	CONTROL			K	1		M	M					NO TOTAL				
99902				K	1		M	M					NO TOTAL				
99903				K	1		M	M					NO TOTAL				

Badge #99902 worn by worker

Badge #99903 worn by "Hotspot" location

Badge #99903 left in place 1 ft above hotspot surface from

1/12/93 @ 1715 hrs

to

1/13/93 @ 0900 hrs

~15 hrs

M = less than minimum measureable quantity

= <10 mrem gamma and <40 mrem energetic beta

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

USE CODE (COLUMN 6)
1 WHOLE BODY 3 RIGHT FINGER 5 RIGHT WRIST 7 OTHER EXTREMITY 8 OTHER WHOLE BODY

AN "H" (HIGH ENERGY) DESIGNATION, WHEN ONLY LOW ENERGY EXPOSURE IS POSSIBLE, MAY INDICATE THAT THE FILM PACKET

IMPORTANT — SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

DAILY INSTRUMENT SOURCE CHECK LOG

Instrument: Model 2221 w/ 44-10

Serial #: 86308

Date				1/12		11/13					
Background Count (CPM)	α			[redacted]							
	β-y			4400 cpm		8[illegible]					
Source ID				Cs-137							
Source Count (CPM)	α			—						—	
	β-y			361K		[illegible]					

Instrument: Ludlum Model 3 w/ 44-9

Serial #: 34282 w/out β shield

Date				1/12		11/13					
Background Count (CPM)	α										
				50cpm		50cpm					
Source ID				Tc-99	Am-241	Tc-99	Am-241				
Source Count (CPM)	α			—	1400	—	1500				
	β-y			7000cpm	—	7100cpm	—				

Instrument: Model 18 w/ 44-10

Serial #:

Date				1/12		11/13					
Background Count (CPM)	α										
	β-y			7000		[illegible]					
Source ID				Cs-137		[illegible]					
Source Count (CPM)	α										
	β-y			300K		[illegible]					

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12	Elevated hot spot initially found on w/52 Railroad tracks - Brick 2x2	4100	600K	
1/12	Gate Entrance	4100	7000	
1/12	Other spots <600K	4100	<600K	

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OK

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
11/2/93	A 400	4100	5058	958
	A 433	4100	4962	862
	A 466	4100	4645	545
	A 500	4100	4860	760
	A 533	4100	5400	1300
	A 566	4100	9962	5862
	A 600	4100	14900	10800
	A 633	4100	10441	6341
↓	A 666	4100	9376	5276

INSTRUMENT: Model 2221 w/ 44-10

BATT CHECK: O KAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	B200	4100	4111	11
	B233	4100	4544	444
	B266		4103	3
	B300		4427	327
	B333		4914	814
	B366		5481	1318
	B400		5563	1463
	B433		6200	2100
	B466		6000	1900
	B500		7000	2960
	B533		7500	3400
	B566		8200	4100
	B600		7300	3200
	B633		6600	2500
↓	B666	↓	5800	1700

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	C200	4160	4327	227
	C233		4322	222
	C266		4595	495
	C300		4161	61
	C333		4649	549
	C366		4814	714
	C400		4491	391
	C433		5870	1770
	C466		5711	1611
	C500		5707	1607
	C533		7291	3191
	C566		6591	2491
	C600		5601	1501
	C633		6707	2607
	C666		5837	1737

INSTRUMENT: Model 2221/44-10

BATT CHECK: O KAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	D133	4830	4017	-813
	D166		5676	846
	D200		5549	719
	D233		6686	1856
	D266		5357	527
	D300		5192	362
	D333		5361	531
↓	D366	↓	5397	567

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	D400	4/00	5157	1057
	D433		5553	1453
	D466		5717	1617
	D500		6126	2026
	D533		6072	1972
	D566		6557	2457
	D600		5522	1422
	D633		5891	1791
	D666		5783	1683

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	E100	4830	5089	259
	E133		4813	-17
	E166		4255	-575
	E200		5561	731
	E233		5453	623
	E266		5535	705
	E300		5815	984
	E333		5550	720
	E366		5606	776

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	E400	4160	5032	932
	E433		5234	1134
	E466		5473	1373
	E500		5972	1872
	E533		5692	1592
	E566		5747	1647
	E600		5542	1442
	E633		5484	1384
↓	E666	↓	5867	1707

INSTRUMENT: Model 2221 w/ 44-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	F066	4830	4889	59
	F100		4887	57
	F133		5236	406
	F166		5142	312
	F200		5653	823
	F233		5857	1027
	F266		5661	831
	F300		5439	609
	F333		5726	896
	F366		5746	916

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	F400	4100	5258	1158
	F433		5719	1619
	F466		5561	1461
	F500		5608	1508
	F533		6043	1943
	F566		5834	1734
	F600		5533	1433
	F633		5098	998
	F666		5078	978

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	G066	4830	4959	129
	G100		4550	-280
	G133		5036	206
	G166		5469	639
	G200		5761	931
	G233		5954	1124
	G266		6025	1195
	G300		5253	423
	G333		5925	1095
↓	G366	↓	6288	1458

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	G 400	4100	5577	1477
	G 433		5756	1656
	G 466		5791	1691
	G 500		6001	1901
	G 533		6130	2030
	G 566		6067	1967
	G 600		5683	1583
	G 633		5028	928
↓	G 666	↓	5158	1058

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	H066	4830	5483	653
	H 10D		4970	140
	H133		5257	427
	H166		5005	175
	H200		5201	371
	H233		5838	1008
	H266		5509	679
	H300		6404	1574
	H33[illegible]		6904	2074
	H366		6293	1463

INSTRUMENT: Model 2221 w/ 4-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/92	H400	4100	5683	1583
	H433		5625	1525
	H466		5415	1315
	H500		5803	1703
	H533		5940	1840
	H566		7215	3115
	H600		5579	1479
	H633		5580	1480
↓	H666	↓	5469	1369

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	I 066	4830	5172	342
	I 100		5301	471
	I 133		4705	-125
	I 166		5459	629
	I 200		5640	810
	I 233		5704	874
	I 266		6742	1912
	I 300		6849	2019
	I 333		8730	3900
↓	I 366	↓	7552	2722

INSTRUMENT: Model 2221 w/4-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	I400	4/00	6216	2116
	I433		5717	1617
	I466		5616	1516
	I500		6083	1983
	I533		5321	1221
	I566		5450	1350
	I600		5093	993
	I633		5153	1053
	I666		5089	989

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	J066	4830	5496	660
	J100		5645	815
	J133		5482	652
	J166		5747	917
	J200		5828	998
	J233		5716	889
	J266		6756	1926
	J300		7481	2651
	J333		6762	1932
↓	J366	↓	6801	1971

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	J400	400	5717	1617
	J433		5996	1896
	J466		5527	1427
	J500		5611	1511
	J533		5847	1747
	J566		5314	1214
	J600		5603	1503
	J633		5598	1498
	J666		5346	1246

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	K 066	4830	6668	1778
	K 100		6447	1617
	K 133		6651	1821
	K 166		6723	1893
	K 200		5810	980
	K 233		6221	1391
	K 266		6295	1465
	K 300		6637	1807
	K 333		7625	2795
↓	K 366	↓	6441	1611

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	K400	4100	5654	1554
	K433		6191	2091
	K466		5949	1849
	K500		5015	915
	K533		5968	1868
	K566		4592	492
	K600		5394	1294
	K633		5336	1236
	K666		5857	1757

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: okay

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/93	L300	4830	7321	2491
↓	L333	↓	7520	2690
↓	L366	↓	7435	1605
1/12/93	L400	4100	6839	2739
	L433	↓	5638	1538
	L466	↓	5265	1165
	L500	↓	4929	829
	L533	↓	4945	845
	L566	↓	5087	987
	L600	↓	5623	1523
	L633	↓	5304	1204
	L666	↓	5135	1035

INSTRUMENT: Model 2221 w/44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	M 400	4600	6591	2491
1/12/93	M 433	↓	5159	1059
1/12/93	M 466	↓	4627	527

INSTRUMENT: Model 2221 w/ 44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
11/2/93	N 400	400	6562	2462
	N 433	↓	4714	614
	N 466	↓	4962	862

INSTRUMENT: Model 2221 w/ 44-10

BATT CHECK: OKAY

CAL DUE DATE: 3/24/93

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/92	X 400			

INSTRUMENT: _____

BATT CHECK: _____

CAL DUE DATE: _____

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	2400		10,000	
	2433		13,000	
	2466		20,000	
	2500		82,000	
	2533		25,000	
	2600		292,000	

INSTRUMENT: _____

BATT CHECK: _____

CAL DUE DATE: _____

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	Y400 – Y600		15K-25K	

INSTRUMENT: _____

BATT CHECK: _____

CAL DUE DATE: _____

SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/12/93	x400 - x600		9000 - 11000	

INSTRUMENT: _____

BATT CHECK: _____

CAL DUE DATE: _____

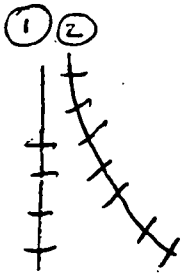
SAMPLE LOCATION SCREENING

DATE	LOCATION	BKG (CPM)	Sample Location Reading	
			Gross (CPM)	Net (CPM)
1/13/92	Right of Railroad	4830	9000 -	
	Track		300K	
	- Hot spots - 3 x 3' above		292K 25K (0' 3')	
	A466 - A566		92K 18K	
	- Bricks - Remove one brick		82K	
	Surface of brick		15-20K	
	- 10-20' to the right of railroad - Elevation piles + line		13-25K	
	- (1) Areas in railroad tracks		9000-10K	
	- Next to Fence		16K	
↓	- (2) Areas in railroad tracks	↓	9-11K	

INSTRUMENT: Model 2221 w/ 44-10

BATT CHECK: OK 6.0V at 8am & Sat 11am New Batteries

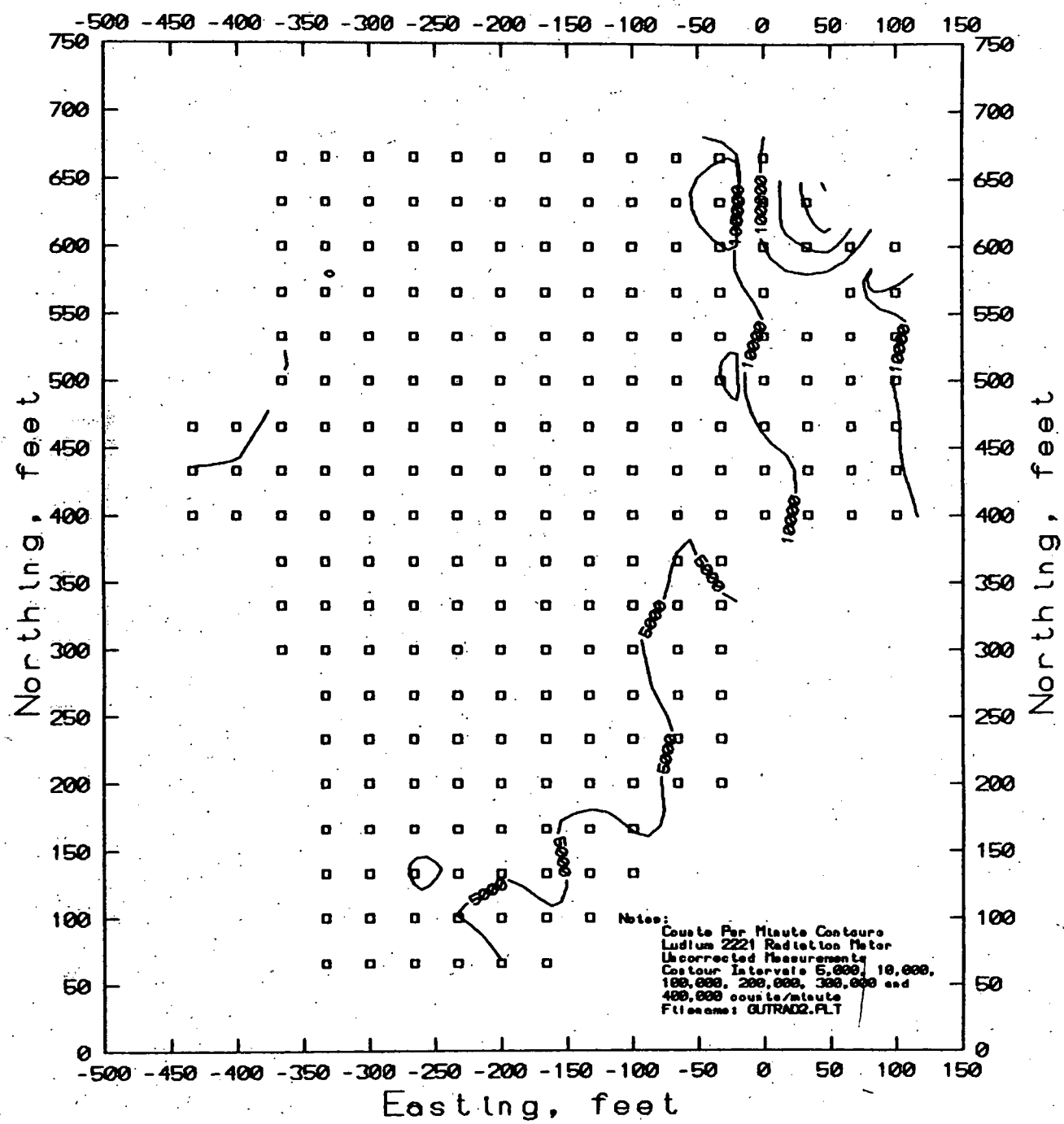
CAL DUE DATE: 3/24/93



Entrance

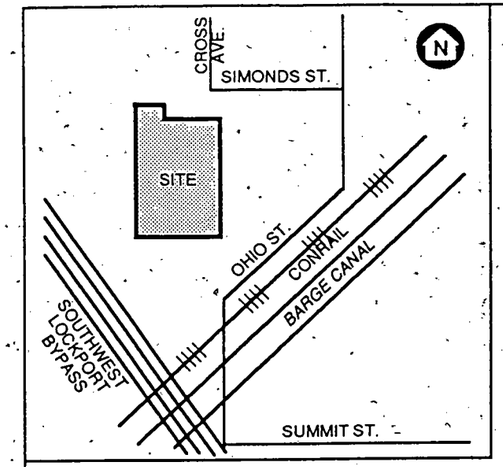
KRN/FIG5-1/GS1

NYSDEC - Guterl Steel Site



SECTION 2.0

FIELD DATA SHEETS



LOCATION MAP
N.T.S.

LEGEND

- MONITORING WELL LOCATION
- TEST BORING/SOIL SAMPLING LOCATION
- TEST PIT LOCATION
- SURFACE WATER/SEDIMENT LOCATION
- WASTE SAMPLE (DRUM REMAINS)
- RADIATION SAMPLE LOCATION (APPROXIMATE)
- PROPERTY LINE
- APPROXIMATE LIMITS OF LANDFILL

SURVEY NOTES:

1. All locations on his map are based on the New York state plane coordinate system west zone.
2. All property line and R.O.W. information shown on this map was determined from current tax map information and IP's as shown.
3. Coordinates for TB-103 are approximate due to no witness stake present. Location based on field notes.

RADIATION LEVELS @ CONTACT

A = 1.1 mrem/hr

B = 15 mrem/hr

C = 0.6 mrem/hr

SCALE IN FEET

0 100 200

BASE MAP SOURCE: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MAP ENTITLED "SUPERFUND STANDBY CONTRACT AT GUTERL SPECIALTY STEEL SITE NO. 4 CITY OF LOCKPORT, N.Y. DATED 2/93.

9303029D

FIGURE 1
SITE PLAN AND SAMPLING LOCATIONS
GUTERL SPECIALTY STEEL
NEW YORK STATE DEC

ABB Environmental Services

Soil Boring Log

Project	Boring/Well No.	Project No.
Guterl Specialty Steel	TB-101	7CE5-30

Client	Site	Sheet No.
NYSDEC	Landfill - Background boring	1 of 1

Logged By	Ground Elevation	Start Date	Finish Data
B. Butler, N. Migliaccio	1	10/28/92	10/28/92

Drilling Contractor	Driller's Name	Rig Type
Parratt Wolff	Brian Waters	CME-50

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
HSA	C dermal	10.6	N/A	4.25" ID

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
# 11	- 0 -	11.0	Not recorded	☐	☐	☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm) Radiation (cpm)	Lab Tests
0	S-1 1.4/2.0	X	2/2 3/2	5		Reddish brown silt, damp, tr. fine sand, tr. roots, soft	ML		0	1.7	Bkgd	
2	S-2 2.0/2.0	X	2/2 2/2	4		Reddish brown moist silt w/ tr. fine sand, tr. roots, tr. gravel, soft sample GSBS101X0492XX	ML		0	N/A	Bkgd	X
4	S-3 1.2/2.0	X	7/8 7/13	15		Reddish brown silt, tr. gravel, wet. Faint yellow mottling.	ML		0	0.2	Bkgd	
6	S-4 2.0/2.0	X	7/13 28/30	41		Wet soft reddish brown silt w/ tr. sand (med-cs), little v. fine sand.	ML		0	0.4	Bkgd	
8	S-5 1.7/2.0	X	13/18 46/37	64		0-0.7' - Reddish brown sandy silt, little gravel, wet. 0.7-1.7 - gravel, rock fragments w/ silt, fine sand, wet	ML		0	1.6	Bkgd	
10	S-6 0.8/0.8	X	31/ 50 for 3	81		Red brown gravelly silt. Rock Fragments in spoon.	GM		0	0.8	Bkgd	
						-Spoon, Auger refusal @ 11' bgs -Water @ ~5' bgs	Bedrock	Refusal				

Soil Boring Log

Project	Boring/Well No.	Project No.
Guterl Specialty Steel	TB-103	7085-30

Client	Site	Sheet No.
NYSDEC	Landfill - Northeastern boring	1 of 1

Logged By	Ground Elevation	Start Date	Finish Data
B. Butler, N. Migliaccio		10/28/92	10/28/92

Drilling Contractor	Driller's Name	Rig Type
Parratt Wolff	Brian Waters	CME-50

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
4.25" HSA	C dermal	10.6	~~4.25" ID~~	4.25" ID

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
10 ft	- 0 -	10 ft	Not Measured.	☐	☐	☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm) Radiation (CPM)	Lab Tests
1	S-1 ~~3/10/9/~~ 17/12 0.9/2.0	X	31/13/ 17/7	30		Brown fine-med. SAND w/ some gravel, damp, loose, well graded FILL	FILL		0	0.4	Bkgd	NOT SAMPLED
2												
3	S-2 0.4/2.0	X	3/6/ 7/5	13		Brown wet wood, metal Fragments, sand and gravel matrix. some cardboard, Tr. Slag material. FILL	FILL		0	0	Bkgd	
4												
5	S-3 1.1/2.0	X	8/6/ 47/27	53		0-0.6' = wood/card board packing material. 0.6-BCS = brown/green/marbled slag Fragments in silt/fine sd. FILL	FILL		0	1.8	Bkgd	
6												
7	S-4 0.3/0.3	X	50 for 0.3'	>50		Red brown silty Fine sand w/ trace gravel, wet.	SM		0	0.6	Bkgd	
8												
9	S-5 1.1/1.4	X	3/20/ 50 for 0.4'	>78		0-0.2' - Red-brown to gray-brown silt, tr. gravel, wet 0.2-0.4' - rock frag. 0.4-BCS - same as 0-0.2'	ML/SM		0	3.1	Bkgd	
10												
11						- Spoon, Auger Refusal @ 10' bgs	Bedrock	Refusal				
12						- water @ 6' bgs						

Soil Boring Log

Project	Boring/Well No.	Project No.
Guterl Specialty Steel	TB-104	7065-30

Client	Site	Sheet No.
NYSDEC	Landfill- mound boring	1 of 2

Logged By	Ground Elevation	Start Date	Finish Data
B. Butler, N. Migliaccio		10/28/92	10/28/92

Drilling Contractor	Driller's Name	Rig Type
Parratt Wolff	Brian Waters	CME-50

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
HSA	C dermal	10.6	NA	4.25" ID

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
15.3 Ft	NA	15.3	not measured	☐	☐	☒

Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	PI Meter Head Space	Radiation	Lab Tests
2	S-1 1.3/2.0	X	3/5 5/5	10		Brown gravelly fine SAND, w/ little slag fragments, damp, loose	Fill		0	0	Bkgd	
4	S-2 1.5/2.0	X	8/8 12/9	20		As Above } sample # GSBS104X0692XX	Fill		0	0.3	Bkgd	X
	S-3 1.5/2.0	X	14/9 16/17	25		0-0.8'- As } 0.8-1.5 - Red brown gravelly silt, rock fragment in spoon	Fill / ~~Silt~~ ML (Fill)		0	1.0	Bkgd	
6	S-4 0.7/2.0	X	8/14 8/10	22		Yellow brown gravelly silt, dry	ML		0	0.3	Bkgd	
8	S-5 0.8/2.0	X	8/7 10/6	17		Reddish brown gravelly silt, loose, moist	ML (Fill)		0	0.6	Bkgd	
10	S-6 1.3/2.0	X	1/2 8/12	16		0-0.9' As above, tr. black layering. 0.9-1.3' - Black dense slag, brittle, w/ metal filings, wet.	ML (Fill) / Fill		0	3.3	Bkgd	
12						- continued on P.2 -						

Soil Boring Log

Project	Boring/Well No.	Project No.
Guterl Specialty Steel	TB-104	7085-30

Client	Site	Sheet No.
NYSDEC	Landfill - mound	2 of 2

Logged By	Ground Elevation	Start Date	Finish Data
B. Butler, N. Migliaccio		10/28/92	10/28/92

Drilling Contractor	Driller's Name	Rig Type
Parratt Wolff	Brian Waters	CME-50

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
HSA	C dermal	10.6	NA	4.25" ID

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
15.3 ft	NA	15.3	Not measured	☐	☐	☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm)	Lab Tests
12	S-7	X	19/31			Brown silt and gravel, wet, wood fragments in spoon tip, slight petroleum odor,						
13	0.5/2.0	X	6/6	37		shean.	Fill		0	3.3	Bkgd	
14	S-8	X	14/18			0-0.2' - as above, oily sheen. 0.2-0.5' - Dark brown wet gravelly silt/w t. roots. 0.5-1.3' - reddish brown gravelly silt	GM		0	0.7	Bkgd	
15	1.0/1.3	X	50 for 0.3	>68								
						- Spoon, Auger Refusal @ 15.3' bgs	Bedrock	Refusal				
						- Water @ 11' bgs						

Soil Boring Log

Project	Boring/Well No.	Project No.
Guterl Specialty Steel	TB-105	7085-30

Client	Site	Sheet No.
NYSDEC	Northwestern soil boring	1 of 1

Logged By	Ground Elevation	Start Date	Finish Data
BButler N. Migliaccio		10/25/92	10/25/92

Drilling Contractor	Driller's Name	Rig Type
Parratt Wolff	Brian Waters	CME-50

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
HSA	C dermal	10.6	N/A	4.25" ID

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
5.2	N/A	5.2	Not measured	☐	☐	☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm)	Lab Tests
1	S-1 1.6/2.0	X	6/9 10/9	19		Brown silty fine SAND, little grey/metallic slag, roots, damp Sample# GSBS105X02 92XX	Fill		0	0.2	Bkgd	X
3	S-2 1.0/2.0	X	6/3 4/3	7		Dark brown sandy silt/w some slag fragments, wet	fill		0	0	Bkgd	
5	S-3 0.5/1.2	X	4/1	5		Brown silty gravel, wet - sour/musty odor	GM		0	0	Bkgd	
							Bedrock	Refusal				

Test Pit Record

Date	Project	Test Pit No.	Project No.
1/12/93	Güterl Specialty Steel	TP-101	7085-30

Ground Elevation	Location	Sheet No.
	Center of landfill	1 of 3

Depth to Groundwater 6' approx

Surface Conditions: Partially vegetated mixture of silty sand, slag, cobbles. Test Pit excavated 10' NS x 3' EW

DEPTH (FEET)	SAMPLE NO.	LAB TEST	WATER CONTENT (%)	SOIL CLASS.	DESCRIPTION	ELEVATION (FEET)	REMARKS
1				Fill	Brown to olive silty sand Fill w/ some cobbles, slag fragments, some black streaking, metal scrap, wood debris, cardboard. Also are crushed, empty 55-gallon container. Most slag purple.		surface RAD = 2800 cpm (Bkgd)
2	S-1	X		Fill			All subsurf. RAD Readings 2500-3000 cpm
3							
4					Sample: GSPS101X0292XX GSPS101X0292XD (Dup)		All PID Readings @ Bkgd
5				Fill			
6					▽ WL @ 6.0' bgs in Fill		
7				Fill	Wet Brown-olive silty Fill, cobbles, slag frag.		
					BOTP = 7.0' bgs		
8							
9							
10							
11							
12							
13							
14							
15							

9202081D (e)

Test Pit Record

Date	Project	Test Pit No.	Project No.
1/12/93	Guterl Specialty Steel	TP-102	7085-30

Ground Elevation	Location	Sheet No.
	Northeast Corner of Landfill.	1 of 3

Depth to Groundwater 3.0' bgs

Surface Conditions: Test Pit excavated in side of large debris pile @ property boundary. Partially vegetated area.

DEPTH (FEET)	SAMPLE NO.	LAB TEST	WATER CONTENT (%)	SOIL CLASS.	DESCRIPTION	ELEVATION (FEET)	REMARKS
0				Fill	Top of Pile		Surface RAD = 2800 cpm = Bkgd
1		X		SLAG	Silver-black blocky slag. Broken up w/ Hammer and chisel to fill jars. Brittle material. Sample: GSPS102X0192XX		
2					0-7.5' bgs Dark Brown to Olive silt to fine sand fill w/ cobbles, roots, concrete rubble, ore crushed, empty 55-gallon containers;		All Rad. readings 2500-3000cpm = Bkgd
3				Fill			
4							All PID readings Bkgd.
5					~~2.5' bgs~~		
6							
7							
8				ML	▽ Water level @ 8' below Top of debris pile		in Nat'l soil
9				ML	7.5' bgs - BOTP - wet reddish brown sandy silt, poorly graded, tr. gravel.		
10					BOTP @ 9.5' ~~bgs~~ below top of Debris pile (4.5' bgs)		
11					(WL @ 8' below top of Pile ~ 3.0' bgs)		
12							
13							
14							
15							

9202081D (e)

Test Pit Record

Date	Project	Test Pit No.	Project No.
1/12/93	Guterl Specialty Steel	TP-103	7085-30

Ground Elevation	Location	Sheet No.
	East center of Landfill	1 of 3

Depth to Groundwater: 3.7'

Surface Conditions: Unvegetated silty, gravelly fill w/ some slag fragments. Nearby crushed 55-gallon containers w/ slag.

DEPTH (FEET)	SAMPLE NO.	LAB TEST	WATER CONTENT (%)	SOIL CLASS.	DESCRIPTION	ELEVATION (FEET)	REMARKS
1				Fill	Dark Brown to Olive silty, gravelly Fill w/ abundant brick (red+yellow) Fragments, wood, scrap metal.		Surface RAD = 2000 cpm = Bkgd - First scrape @ 1.5' bgs RAD ~ 3800 cpm
2							
3					Dark Brown to Black, wet, silty, gravelly fill, firebrick and wood Fragments		>1.5' bgs RAD @ 1800-3500 cpm.
4	S-1	X		Fill	▽ WL @ 3.7' bgs in Fill		
5					Test Pit Refusal @ 4' bgs Sample: GSPS103X0492XX		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

9202081D (e)

Test Pit Record

Date	Project	Test Pit No.	Project No.
1/12/93	Guterl Specialty Steel	TP-104	7085-30

Ground Elevation	Location	Sheet No.
	South Central Part of Landfill	1 of 3

Depth to Groundwater 6.0' bgs

Surface Conditions: Located in vegetated area - some slag, wood fragments on ground surface

DEPTH (FEET)	SAMPLE NO.	LAB TEST	WATER CONTENT (%)	SOIL CLASS.	DESCRIPTION	ELEVATION (FEET)	REMARKS
1	S-1	X		Fill	0-0.5' - Dk brown silty Fill soil 0.5-1.5' bgs - isolated pod of grey-yellow blocky slag Sample: GSPS104X0192XA		Surface RAD = 2900 cpm = Bkgd All RAD Readings @ Bkgd, All PID Readings @ Bkgd.
2					1.5'> Dark brown to black fine sand to silt w/ much cobbles, slag, one empty, crushed 55-gallon container, wood, brick, possibly two 6" diam. steel buttons, damp		
3							
4				Fill			
5							
6					▽ WL @ 6' bgs in Fill		
7				Fill	Fill, as above, water saturated		
8					BOTP @ 7.5' bgs		
9							
10							
11							
12							
13							
14							
15							

Test Pit Record

Date	Project	Test Pit No.	Project No.
1/12/93	Guterl Specialty Steel	TP-105	7085-30

Ground Elevation	Location	Sheet No.
	Southwest Corner of landfill	1 of 3

Depth to Groundwater 2.0' bgs

Surface Conditions: Vegetated, much scrap wood debris on ground surface. Some scrap metal.

DEPTH (FEET)	SAMPLE NO.	LAB TEST	WATER CONTENT (%)	SOIL CLASS.	DESCRIPTION	ELEVATION (FEET)	REMARKS
1				Fill	Dark brown damp sandy to granular fill, water saturated, wood, styrofoam, metal, brick fragments, rubber hose, rags		Surface RAD = 1900 cpm
2	S-1	X		Fill	Sample: GSPS105X0292XX - granular material from Fill		
				Topsoil	2.5-2.0' - Dark brown-black sandy silt/w roots, buried Topsoil horizon. Muck odor		
3				ML	2.5'-4.0' - Dark brown to black sandy silt, wet, poorly graded. Tr. roots		
4							
5					~Water level located @ buried topsoil/fill interface, slight sheen observed.		All Rad Readings @ background, All PID readings @ background
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

9202081D (e)

Test Pit Record

Date	Project	Test Pit No.	Project No.
1/12/93	Guterl Specialty Steel	TP-106	7085-30

Ground Elevation	Location	Sheet No.
	Southeast Corner of Landfill	1 of 3

Depth to Groundwater 3.5'

Surface Conditions: Unvegetated silty, gravelly fill w/ some wood fragments

DEPTH (FEET)	SAMPLE NO.	LAB TEST	WATER CONTENT (%)	SOIL CLASS.	DESCRIPTION	ELEVATION (FEET)	REMARKS
1	S-1	X		Fill	Dark brown to Black silty fine-cs Sand Fill w/ much wood debris, rags, 'tar' pockets. Water discharging into Pit has sheen.		Surface RAD= 2500 cpm = Bkgd
2				Fill			All Subsurf RAD Readings 2200 - 3200 cpm
3					▽ WL @ 3.5' bgs in Fill		
4				Fill			
5				ML	Reddish brown sandy silt, damp, tr. grey mottling, poorly graded.		
6					BOTP = 6.0' bgs in Natural Soil		All PID Readings @ Bkgd
7					Sample: GSPS106X0292XX ~contains some of the Tar material encountered.		
8							
9							
10							
11							
12							
13							
14							
15							

Soil Boring Log

Project	Boring/Well No.	Project No.
Guterl Specialty Steel	MW-105	7085-30

Client	Site	Sheet No.
NYSDEC	Replacement well on west	1 of 1

Logged By	Ground Elevation	Start Date	Finish Data
B. Butler, N. Migliaccio		10/28/92	10/28/92

Drilling Contractor	Driller's Name	Rig Type
Parratt Wolff	Brian Waters	CME-50

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
HSA	C dermal	10.6	—	4.25" ID

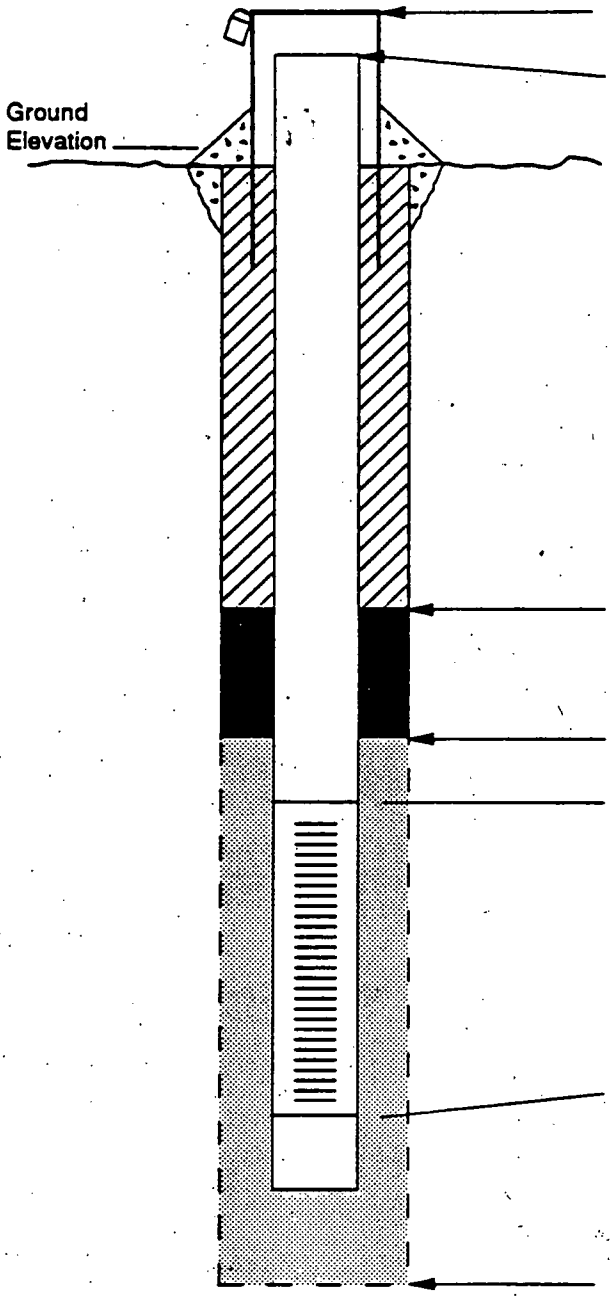
Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
5.0	NA	5.0	Not measured.	☐	☒	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm) Radiation	Lab Tests
1	S-1 1.0/2.0		8/2 2/21	4		dark brown granular rusty material w/ slag fragments, wet, over olive brown gravelly silt, some sand, moist. Cobble fragment in spoon.	Fill GM	Easy drilling to 2.5' bgs	0	1.3	Bkgd	Not Sampled
2												
3	NS											
4	S-2		23/ 50 for 0.1	>50		0-0.4 - grey gravelly silt, wet 0.4-0.6 - Yellow grey gravelly sand	GM	Tough Drilling	0	12.1	Bkgd	
5	NS						Bedrock	Refusal				

- spoon refusal @ 4.6'
- Auger refusal @ 5.0'
- water level @ ~1.5' bgs
- see monitoring well construction diagram
- well screen set 3-5' bgs

OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM

Project Exxon | Location west boundary | Driller Brian Waters, Perratt Wolff
Project No. 7085-30 | Boring No. MW-105 | Drilling Method HSA
Date Installed 10/28/92 | Development Method
Field Geologist BK Butler



Elevation of Top of Surface Casing:
Stick-up of Casing Above Ground Surface: 2.0'
Elevation of Top of Riser Pipe:
Type of Surface Seal: Cement
Type of Surface Casing: steel

ID of Surface Casing: 4-inch

Diameter of Borehole: 8.5-inch

Riser Pipe ID: 2 inch
Type of Riser Pipe: Sch 40 PVC

Type of Backfill: Cement/bentonite grout

Elevation of Top of Seal: N/A
Depth of Top of Seal: N/A
Type of Seal: Cement/bentonite grout

Elevation of Top of Sand:
Depth of Top of Sand: 2.0' bgs
Elevation of Top of Screen:
Depth of Top of Screen: 3.0' bgs

Type of Screen: Sch. 40 PVC
Slot Size x Length: 0.010 inch x 2 ft.
ID of Screen: 2 inch

Type of Sandpack: 00-grade silica sand

Elevation of Bottom of Screen:
Depth of Bottom of Screen: 5.0' bgs
Depth of Sediment Sump with Plug: N/A

Elevation of Bottom of Borehole:
Depth of Bottom of Borehole: 5.0' bgs

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project Guterl Site Northern Soil Borings TB-101/TB-103/TB-104/TB-105/MW-10

Project No. 7065-30 Sampler Signature BK Butin

Date 10/28/92

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
NA		pH 4 ____ pH 7 ____ pH 10 ____
NA		pH 4 ____ pH 7 ____ pH 10 ____
NA		pH 4 ____ pH 7 ____ pH 10 ____
NA		Cond. Std. ____/ ____ Cond. Std. ____/ ____
NA		Cond. Std. ____/ ____ Cond. Std. ____/ ____
NA		Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen		
NA		Avg. Winkler Value ____ppm Meter Value ____ppm
Redox		
NA		Zobell Sol. Value ____ Meter Value ____
Photoionization Meter		
Photovac TIP	Good	Zero/Zero Air? ☒ Yes ☐ No Span Gas Value 119 ppm Equiv. Meter Value 119 ppm Equiv.
NA		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ___ppm Equiv. Meter Value ___ppm Equiv.
Other		
Radiation Monitor 4	Good	Calibrated by manufacturer
LEL/O2 Meter	Good	Calibrated As Per Manufacturers Instructions @ ABB-ES Staging

Fluids/Materials Record

Deionized Water Source: X ECJ Staging Portable System Other

Trip Blank Water Source: ____ECJ Lab; Lot No. ____

____Other; Type ____ ID ____

Decontamination Fluids: ____Methyl Hydrate; Lot No. ____

X Other; Type Alconox ID Supplied by driller

HNO_3/DI Rinse Solution: ____ECJ Staging; Lot No. ____

Filtration Paper ID: (In Line) Manuf/Type ____ Lot No. ____/____

(Vacuum) Manuf/Type ____ Lot No. ____/____

Chemicals Used: HNO_3 Lot No. ____ ZnAOC Lot No. ____

H_2SO_4 Lot No. ____ Other Lot No. ____

HCL Lot No. ____ Other Lot No. ____

NaOH Lot No. ____

* See Additional Radiation Monitoring Equipment Data Sheets

E.C. JORDAN, CO.

91051070

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project Guterl Task 3 Site Guterl Specialty Steel Landfill

Project No. 7085-30 Sampler Signature B Butch

Date 1-12-93

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
_____	_____	pH 4 ____ pH 7 ____ pH 10 ____
_____	_____	pH 4 ____ pH 7 ____ pH 10 ____
_____	_____	pH 4 ____ pH 7 ____ pH 10 ____
_____	_____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
_____	_____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
_____	_____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen		
_____	_____	Avg. Winkler Value ____ ppm Meter Value ____ ppm
Redox		
_____	_____	Zobell Sol. Value ____ Meter Value ____
Photoionization Meter		
NYSDEC TIP #2	Full	Zero/Zero Air? ☐ Yes ☒ No Span Gas Value 100 ppm Equiv. Meter Value 99 ppm Equiv.
_____	_____	Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ___ ppm Equiv. Meter Value ___ ppm Equiv.
Other		
Radiation Monitor 4	Ok	Manufacturer Calib.
LEL/O2 Meter DD15	Ok	Calib. by Staging

Fluids/Materials Record

Deionized Water Source: X ECJ Staging Portable System Other

Trip Blank Water Source: ____ ECJ Lab; Lot No. _____

___ Other; Type _____ ID _____

Decontamination Fluids: ___ Methyl Hydrate; Lot No. _____

X Other; Type Liquinox ID ABB-ES source

HNO_3/DI Rinse Solution: ___ ECJ Staging; Lot No. _____

Filtration Paper ID: (In Line) Manuf/Type _____ Lot No. _____/ _____

(Vacuum) Manuf/Type _____ Lot No. _____/ _____

Chemicals Used: HNO_3 Lot No. Lab-Pre Pres. Cont. ZnAOC Lot No. _____

H_2SO_4 Lot No. _____ Other Lot No. _____

HCL Lot No. _____ Other Lot No. _____

NaOH Lot No. Lab-Pre Pres. Cont.

(See Also Radiation Meter Cal. Sheets For this Day)

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project PSA-6 Site Cuter Specialty Steel

Project No. 7085-30 Sampler Signature BK Burk

Date 1-13-93

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
YSI 3560 #4	Good	pH 4 4.00 pH 7 7.00 pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
YSI 3560 #4	Good	Cond. Std. 200 / 1995 Cond. Std. ____ / ____
		Cond. Std. ____ / ____ Cond. Std. ____ / ____
		Cond. Std. ____ / ____ Cond. Std. ____ / ____
Dissolved Oxygen (BKB 1-13-93)		
~~YSI 3560 #4~~	~~Good~~	Avg. Winkler Value ____ ppm Meter Value ____ ppm
Redox		
YSI 3560 #4	Good	Zobell Sol. Value ____ Meter Value ____
Photoionization Meter		
Photovac TIP #2	Good	Zero/Zero Air? ☐ Yes ☒ No Span Gas Value 119 ppm Equiv.
		Meter Value 121 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ ppm Equiv.
		Meter Value ____ ppm Equiv.
Other (BKB 1-13-93)		
~~A.V (YSI 3560)~~		

Fluids/Materials Record

Deionized Water Source: X ECJ Staging Portable System Other

Trip Blank Water Source: X ECJ Lab; Lot No. ____

X Other: Type Lab Provided ID GSQT002XXX92XX

Decontamination Fluids: ___ Methyl Hydrate; Lot No. ____

X Other: Type Liquinox ID ____

HNO_3/DI Rinse Solution: ___ ECJ Staging; Lot No. ____

Filtration Paper ID: (In Line) Manuf/Type ____ Lot No. ____ / ____

(Vacuum) Manuf/Type ____ Lot No. ____ / ____

Chemicals Used: HNO_3 Lot No. Lab Provided ZnAOC Lot No. ____

H_2SO_4 Lot No. ____ Other Lot No. ____

HCL Lot No. ____ Other Lot No. ____

NaOH Lot No. Lab Provided

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project PSA-6 Site Guterl Specialty Steel

Project No. 7085-30 Sampler Signature BK Bath

Date 1/21/93

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
_____	_____	pH 4 ____ pH 7 ____ pH 10 ____
_____	_____	pH 4 ____ pH 7 ____ pH 10 ____
_____	_____	pH 4 ____ pH 7 ____ pH 10 ____
_____	_____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
_____	_____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
_____	_____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen		
_____	_____	Avg. Winkler Value ____ ppm Meter Value ____ ppm
Redox		
_____	_____	Zobell Sol. Value ____ Meter Value ___
Photoionization Meter		
_____	_____	Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ___ppm Equiv. Meter Value ___ppm Equiv.
_____	_____	Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ___ppm Equiv. Meter Value ___ppm Equiv.
Other		
HACH DR-2000	Good	Turbidity as specified by instruction manual. Zero Blank = 0 NTUs

Fluids/Materials Record

Deionized Water Source: ____ECJ Staging Portable System Other

Trip Blank Water Source: ____ECJ Lab; Lot No. _____

___Other; Type _____ ID _____

Decontamination Fluids: ___Methyl Hydrate; Lot No. _____

___Other; Type _____ ID _____

HNO_3/DI Rinse Solution: ___ECJ Staging; Lot No. _____

Filtration Paper ID: (In Line) Manuf/Type _____ Lot No. _____/ _____

(Vacuum) Manuf/Type _____ Lot No. _____/ _____

Chemicals Used: HNO_3 Lot No. _____ ZnAOC Lot No. _____

H_2SO_4 Lot No. _____ Other Lot No. _____

HCL Lot No. _____ Other Lot No. _____

NaOH Lot No. _____

SURFACE SOIL SAMPLE DATA RECORD

Project: PSA-6 Guterl Specialty Steel
Project Number: 07085-30
Sample Location ID: GSWTX01XXX92XX
Time: Start: 1615 End: 1655

Site: Guterl Landfill
Date: 1-12-93
Signature of Sampler: B. C Butch

SOIL SAMPLE

DEPTH OF SAMPLE N/A
Exposed Drum

EQUIPMENT USED FOR COLLECTION:
[ ] HAND AUGER
[ ] S.S. SPLIT SPOON
[ ] SHOVEL
[X] HAND SPOON
[ ] ALUMINUM PANS
[X] SS BUCKET
[ ] _____

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SAMPLE OBSERVATIONS:
[ ] ODOR _____
[X] COLOR Black
[ ] _____

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

SOIL TYPE:
[ ] CLAY
[ ] SAND
[ ] ORGANIC
[ ] GRAVEL
[X] Slag

FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

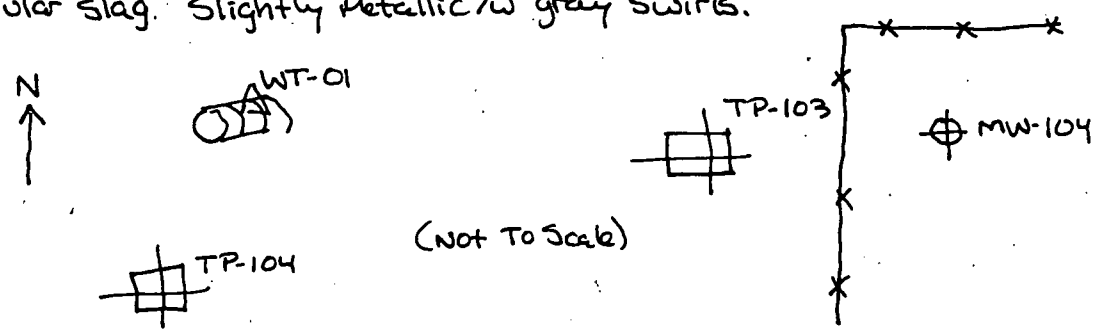
SAMPLE LOCATION SKETCH:
[X] YES See below
[ ] NO

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[X] TCL VOC	[ ]	[X]	[ ]		[X]	/ / /
[X] TCL SVOC	[ ]	[X]	[ ]		[X]	/ / /
[X] TCL PCB	[ ]	[X]	[ ]		[X]	/ / /
[X] TCL INORG	[ ]	[X]	[ ]		[X]	/ / /
[X] EP TOX Metals	[ ]	[X]	[ ]		[X]	/ / /
[X] Ign/Corrite	[ ]	[X]	[ ]		[X]	/ / /
[ ]	[ ]	[ ]	[ ]		[ ]	/ / /

NOTES/SKETCH

Sampled remains of ≈ 25-gallon drum containing black granular slag. Slightly metallic/w gray swirls.



SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: PSA-6 Site: Cuter Specialty Steel
Project Number: 7085-30 Date: 1/13/93
Sample Location ID: SLVSD-002
Time: Start: 1145 End: 1500 Signature of Sampler: BK Bush

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
[ ] STREAM [ ] RIVER
[ ] POND/LAKE [X] SEEP

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

WATER DEPTH AND SAMPLE LOCATION 1.0 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[X] NONE, GRAB INTO BOTTLE
[ ] BOMB SAMPLER
[ ] PUMP

VELOCITY MEASUREMENTS OBTAINED? [ ] YES, SEE FLOW MEASUREMENT DATA RECORD

TEMPERATURE 0.0 Deg. C. SPEC. COND. 1615 µmhos/cm pH 7.99 Units DISS. O_2 N/A ppm

FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID

SAMPLE LOCATION SKETCH:
[X] YES Below
[ ] NO

METHOD USED:
[ ] WINKLER
[ ] PROBE

Eh = -119 mV

SEDIMENT INFORMATION

DEPTH OF SEDIMENT SAMPLE 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[ ] GRAVITY CORER
[ ] S.S. SPLIT SPOON
[ ] DREDGE
[X] HAND SPOON
[ ] ALUMINUM PANS
[ ] SS BUCKET
[X] Bucket Auger

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SEDIMENT TYPE:
[X] CLAY, silt, organic, sticky
[ ] SAND
[ ] ORGANIC
[ ] GRAVEL

SAMPLE OBSERVATIONS:
[ ] ODOR
[X] COLOR Black/orange/brey
[ ]

FIELD GC DATA: [X] FIELD DUPLICATE COLLECTED
DUPLICATE ID GSSD002xxx92xD (SR. 3/16/93)

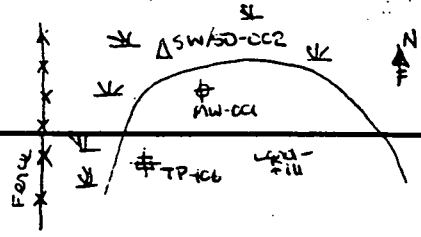
SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[✓] TCL VOC	[✓]	[✓]	[ ]	2-40ml V/2-40zG	[✓] + DUPS	/ / /
[✓] TCL SVOC	[✓]	[✓]	[ ]	2-16G / 1-EGZG	[✓] + DUPS	/ / /
[✓] TCL Inorg	[✓]	[✓]	[✓]	1-LP / 1-EGZG	[✓] + DUPS	/ / /
[✓] cyanide	[✓]	[✓]	[✓]	SGCM P / —	[✓] + DUPS	/ / /
[✓] Gross α β	[✓]	[ ]	[✓]	1-LP / —	[✓] + DUP	/ / /
[ ]	[ ]	[ ]	[ ]		[ ]	/ / /
[ ]	[ ]	[ ]	[ ]		[ ]	/ / /

NOTES/SKETCH

- Surface water yellow, mucky odor, foams when poured.
- Sample GSSW002xxx92xx, GSSW002xxx92xD collected @ 1200, included extra volume for MS/MSD.
- Sample GSSD002xxx92xx, GSSD002xxx92xxD collected @ 1455.

SR 3/16/93



SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: PSA-6 Site: Guterl Specialty Steel
Project Number: 7085-30 Date: 1-13-93
Sample Location ID: SW/SD-003
Time: Start: 1500 End: 1615 Signature of Sampler: BK Buttl

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
[ ] STREAM [ ] RIVER
[ ] POND/LAKE [X] SEEP-Ditch (Flowing)

WATER DEPTH AND SAMPLE LOCATION 0.3 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[X] NONE, GRAB INTO BOTTLE
[ ] BOMB SAMPLER
[ ] PUMP

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

VELOCITY MEASUREMENTS OBTAINED? [ ] YES, SEE FLOW MEASUREMENT DATA RECORD _____

TEMPERATURE 2.5 Deg. C. SPEC. COND. 2060 µmhos/cm pH 8.54 Units DISS. O_2 N/A ppm

FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLE LOCATION SKETCH:
[X] YES
[ ] NO

METHOD USED:
[ ] WINKLER
[ ] PROBE

Eh = +84 mV

SEDIMENT INFORMATION

DEPTH OF SEDIMENT SAMPLE 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[ ] GRAVITY CORER
[ ] S.S. SPLIT SPOON
[ ] DREDGE
[X] HAND SPOON
[ ] ALUMINUM PANS
[ ] SS BUCKET
[X] Bucket Auger

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SAMPLE OBSERVATIONS:
[ ] ODOR _____
[X] COLOR olive
[ ] _____

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

SEDIMENT TYPE:
[X] CLAY-silt, organics
[ ] SAND
[ ] ORGANIC
[ ] GRAVEL

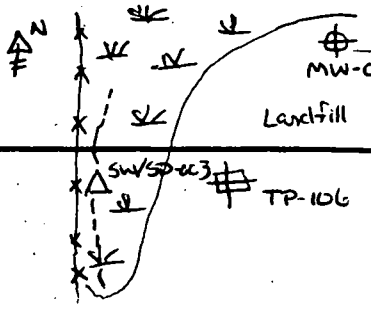
FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[✓] TCL VOC	[✓]	[✓]	[ ]	2-40ml V/2-4oz G	[✓]	____/____/____/____
[✓] TCL SVOC	[✓]	[✓]	[ ]	2-1L G/1-8oz G	[✓]	____/____/____/____
[✓] TCL Inorg	[✓]	[✓]	[✓]	1-1L P/1-8oz G	[✓]	____/____/____/____
[✓] Cyanide	[✓]	[✓]	[✓]	500ml P/—	[✓]	____/____/____/____
[✓] Gross α/β	[✓]	[ ]	[✓]	1-1L P/—	[✓]	____/____/____/____
[ ]	[ ]	[ ]	[ ]	_____	[ ]	____/____/____/____
[ ]	[ ]	[ ]	[ ]	_____	[ ]	____/____/____/____

NOTES/SKETCH

- Surface water clear, no odor, no sheen. Ditch Flowing along Fence
- Sample GSSW003xxx92xx collected @ 1515
- Sample GSSD003xxx92xx collected @ 1530



Ditch Flows to north into Former orchard.

SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: PSA-6 Site: Cutler Specialty Steel
Project Number: 7085-30 Date: 1/13/93
Sample Location ID: SW/SD-004
Time: Start: 1615 End: 1640 Signature of Sampler: BK Butler

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
[ ] STREAM [ ] RIVER
[ ] POND/LAKE [X] SEEP

WATER DEPTH AND SAMPLE LOCATION 0.5 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[X] NONE, GRAB INTO BOTTLE
[ ] BOMB SAMPLER
[ ] PUMP _____

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

VELOCITY MEASUREMENTS OBTAINED? [ ] YES, SEE FLOW MEASUREMENT DATA RECORD _____

TEMPERATURE 0.07 Deg. C. SPEC. COND. 915 µmhos/cm pH 9.15 Units DISS. O_2 N/A ppm

FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

Eh = +177 mV

SAMPLE LOCATION SKETCH:
[ ] YES
[X] NO

METHOD USED:
[ ] WINKLER
[ ] PROBE

SEDIMENT INFORMATION

DEPTH OF SEDIMENT SAMPLE 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[ ] GRAVITY CORER
[ ] S.S. SPLIT SPOON
[ ] DREDGE
[X] HAND SPOON
[ ] ALUMINUM PANS
[ ] SS BUCKET
[X] Bucket Auger

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SAMPLE OBSERVATIONS:
[ ] ODOR _____
[X] COLOR Dark olive
[ ] _____

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

SEDIMENT TYPE:
[X] CLAY- silt, organics
[ ] SAND
[ ] ORGANIC
[ ] GRAVEL

FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[✓] TCL VOC	[✓]	[✓]	[ ]	2-40 ml VOA/2-4oz G	[✓]	____/____/____/____
[✓] TCL SVOC	[✓]	[✓]	[ ]	2-1 L AM/1-8oz G	[✓]	____/____/____/____
[✓] TCL Inorg	[✓]	[✓]	[✓]	1-L P / 1-8oz G	[✓]	____/____/____/____
[✓] Cyanide	[✓]	[✓]	[✓]	500ml P/—	[✓]	____/____/____/____
[✓] Gross αβ	[✓]	[ ]	[✓]	1-L P/—	[✓]	____/____/____/____
[ ]	[ ]	[ ]	[ ]	_____	[ ]	____/____/____/____
[ ]	[ ]	[ ]	[ ]	_____	[ ]	____/____/____/____

NOTES/SKETCH

Samples located off Southwest Corner of Landfill
Sample GSSW004XXX92XX collected @ 1620
Sample GSSD004XXX92XX collected @ 1630

SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: PSA-6
Site: Guterl Specialty Steel
Project Number: 7085-30
Date: 1-13-93
Sample Location ID: SW/SD-005
Time: Start: 1640 End: 1700
Signature of Sampler: BK Butler

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
[ ] STREAM [ ] RIVER
[ ] POND/LAKE [X] SEEP

WATER DEPTH AND SAMPLE LOCATION 0.5 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[X] NONE, GRAB INTO BOTTLE
[ ] BOMB SAMPLER
[ ] PUMP _____

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

VELOCITY MEASUREMENTS OBTAINED? [ ] YES, SEE FLOW MEASUREMENT DATA RECORD _____

TEMPERATURE 1.4 Deg. C. SPEC. COND. 2500 µmhos/cm pH 8.31 Units DISS. O_2 N/A ppm

FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLE LOCATION SKETCH:
[X] YES Below
[ ] NO

METHOD USED:
[ ] WINKLER
[ ] PROBE

Eh = - 3.0 mV

SEDIMENT INFORMATION

DEPTH OF SEDIMENT SAMPLE 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[ ] GRAVITY CORER
[ ] S.S. SPLIT SPOON
[ ] DREDGE
[X] HAND SPOON
[ ] ALUMINUM PANS
[ ] SS BUCKET
[X] Bucket Auger

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SAMPLE OBSERVATIONS:
[X] ODOR Mucky
[X] COLOR Med. Olive
[ ] _____

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

SEDIMENT TYPE:
[X] CLAY- Silt, Organics
[ ] SAND
[ ] ORGANIC
[ ] GRAVEL

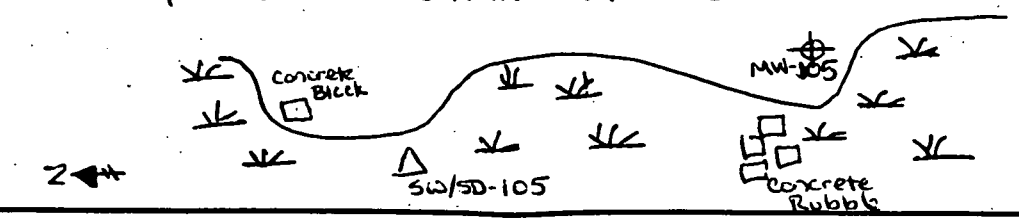
FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[✓] TCL VOC	[✓]	[✓]	[ ]	2-40ml Vial/Amber	[✓]	
[✓] TCL SVOC	[✓]	[✓]	[ ]	2-1L Amber/1-8oz G.	[✓]	
[✓] TCL Inorg.	[✓]	[✓]	[✓]	1-L Plastic/1-8oz G.	[✓]	
[✓] Gross α/β	[✓]	[ ]	[✓]	1-L Plastic/—	[✓]	
[✓] cyanide	[✓]	[✓]	[✓]	500 ml Plastic/—	[✓]	
[ ]	[ ]	[ ]	[ ]		[ ]	
[ ]	[ ]	[ ]	[ ]		[ ]	

NOTES/SKETCH

Sample GSSW005xxx92xx collected @1645
Sample GSSD005xxx92xx collected @ 1655



SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: PSA-6 Site: Guterl Specialty Steel
Project Number: 7085-30 Date: 1/13/93
Sample Location ID: SW/SD-006
Time: Start: 1705 End: 1730 Signature of Sampler: BK Butler

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
[ ] STREAM [ ] RIVER
[ ] POND/LAKE [X] SEEP

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

WATER DEPTH AND SAMPLE LOCATION 0.4 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[X] NONE, GRAB INTO BOTTLE
[ ] BOMB SAMPLER
[ ] PUMP

VELOCITY MEASUREMENTS OBTAINED? [ ] YES. SEE FLOW MEASUREMENT DATA RECORD

TEMPERATURE 2.0 Deg. C. SPEC. COND. 2310 µmhos/cm pH 8.62 Units DISS. O_2 N/A ppm

FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID

Eh = +74 mV

SAMPLE LOCATION SKETCH:
[X] YES Below
[ ] NO

METHOD USED:
[ ] WINKLER
[ ] PROBE

SEDIMENT INFORMATION

DEPTH OF SEDIMENT SAMPLE 0 (ft)

EQUIPMENT USED FOR COLLECTION:
[ ] GRAVITY CORER
[ ] S.S. SPLIT SPOON
[ ] DREDGE
[X] HAND SPOON
[ ] ALUMINUM PANS
[ ] SS BUCKET
[X] Bucket Auger

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SAMPLE OBSERVATIONS:
[ ] ODOR
[X] COLOR Light Olive
[ ]

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[X] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

SEDIMENT TYPE:
[X] CLAY - Sandy - Gravelly
[ ] SAND
[ ] ORGANIC
[ ] GRAVEL

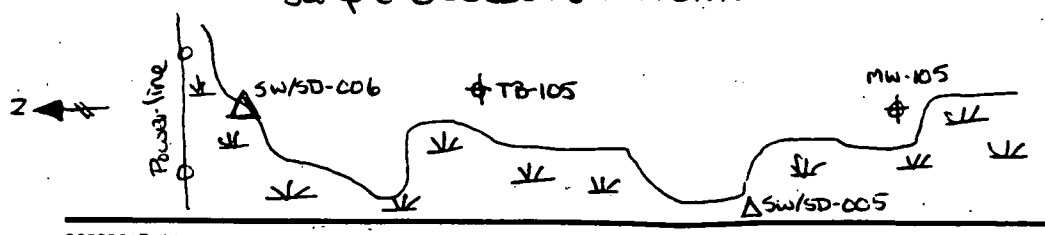
FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[✓] TCL VOC	[✓]	[✓]	[ ]	2-40ml V / 2-4026	[✓]	/ / /
[✓] TCL SVOC	[✓]	[✓]	[ ]	2-1LA / 1-8026	[✓]	/ / /
[✓] TCL Inorg.	[✓]	[✓]	[✓]	1-LP / 1-8026	[✓]	/ / /
[✓] Cyanide	[✓]	[✓]	[✓]	500ml P / —	[✓]	/ / /
[✓] grossαβ	[✓]	[ ]	[✓]	1-LP / —	[✓]	/ / /
[ ]	[ ]	[ ]	[ ]		[ ]	/ / /
[ ]	[ ]	[ ]	[ ]		[ ]	/ / /

NOTES/SKETCH

Sample GSSW006XXX92XX collected @ 1715
Sample GSSD006XXX92XX collected @ 1725



GROUNDWATER FIELD SAMPLE DATA RECORD

Project: PSA-6 Site: Gutel Specialty Steel
Project Number: 7085-30 Date: 1/13/93
Sample Location ID: MW-01
Time: Start: 1000 End: 1315 Signature of Sampler: BK Butch

Water Level/Well Data

Well Depth 9.39 Ft. — [X] Measured [ ] Historical — [X] Top of Well [ ] Top of Protective Casing — Well Riser Stick-up 3.0 Ft. (from ground) — Protective N/A Ft. Casing/Well Difference — Protective — Ft. Casing

Depth to Water 5.64 Ft. — Well Material: [X] PVC [ ] SS — Well Locked?: [ ] Yes [X] No — Well Dia. [X] 2 inch [ ] 4 inch [ ] 6 inch — Water Level Equip. Used: [X] Elect. Cond. Probe [ ] Float Activated [ ] Press. Transducer

Height of Water Column 3.75 Ft. X [X] .16 Gal/Ft (2 in.) [ ] .65 Gal/Ft (4 in.) [ ] 1.5 Gal/Ft (6 in.) [ ] __ Gal/Ft (__ in.) = 0.6 Gal/Vol; 2.5 Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other Plastic Cap	X	

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	B-1399-16
		Submersible Pump	
✓	✓	Bailer	None
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used:

(✓ All That Apply at Location)
- [ ] Methanol (100%)
- [ ] 25% Methanol/75% ASTM Type II water
- [X] Deionized Water
- [X] Liquinox Solution
- [ ] Hexane
- [ ] HNO_3/D.I. Water Solution
- [ ] Potable Water
- [ ] None

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 0 ppm Field Data Collected [ ] In-line [X] In Container

Sample Observations: [ ] Turbid [X] Clear [ ] Cloudy [X] Colored [ ] Odor [X] Foamy

Purge Data	@ 2.5 Gal.	@ Gal.	@ Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	1.7				
pH, units	8.03				
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	1615				
Oxidation - Reduction, +/- mv	+215				
Dissolved Oxygen, ppm	N/A				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Field Filtered	Preservation Method	Volume Required	✓ If Sample Collected	Sample Bottle IDs
TCL VOC			2-40ml V	✓	/ / /
TCL SVOC			2-1L G	✓	/ / /
TCL Inorg		HNO_3	1-LP P	✓	/ / /
Cyanide		NaOH	500ml P	✓	/ / /
Gross α β		HNO_3	1-LP	✓	/ / /
					/ / /
					/ / /
					/ / /

Notes: -Yellowish clear water, foams when poured. Well pumped dry at each volume. Collected reference sample for turbidity measurement - Turbidity = 17 NTUS via HACH DR-2000
- sample GSMW0001XXX92XX collected @ 1215

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: PSA-6 Site: Cutler Specialty Steel
Project Number: 7085-30 Date: 1-13-93
Sample Location ID: MW-02
Time: Start: 1715 End: 1745 Signature of Sampler: BK Butler

Water Level/Well Data

Well Depth 6.0 Ft — X Measured / ___ Historical — X Top of Well / ___ Top of Protective Casing / ___ ___ — Well Riser Stick-up 3.0 Ft (from ground) — Protective N/A Ft. Casing/Well Difference — Protective N/A Ft. Casing

Depth to Water 2.16 Ft (water on Ground Surface @ well) — Well Material: X PVC / ___ SS / ___ ___ — Well Locked?: ___ Yes / X No — Well Dia. X 2 inch / ___ 4 inch / ___ 6 inch / ___ ___ — Water Level Equip. Used: ___ Elect. Cond. Probe / ___ Float Activated / ___ Press. Transducer / ___ ___

Height of Water Column 3.84 Ft X [X .16 Gal/Ft (2 in.) / ___ .65 Gal/Ft (4 in.) / ___ 1.5 Gal/Ft (6 in.) / ___ ___ Gal/Ft (___ in.)] = [0.6 Gal/Vol / 6 Total Gal Purged]

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other Plastic Cap	___	X

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
X	X	Peristaltic Pump	B-1389-16
___	___	Submersible Pump	___
___	X	Bailer	None
___	___	PVC/Silicon Tubing	___
___	___	Teflon/Silicon Tubing	___
___	___	Airlift	___
___	___	Hand Pump	___
___	___	In-line Filter	___
___	___	Press/Vac Filter	___
___	___		___

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
X Deionized Water
X Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ ___
___ ___

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 0 ppm Field Data Collected ___ In-line / X In Container

Sample Observations: ___ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ 2.0 Gal.	@ 6.0 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	3.1	4.7			
pH, units	7.6	8.1			
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	3880	4030			
Oxidation - Reduction, +/- mv	+102	+105			
Dissolved Oxygen, ppm	N/A	N/A			

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Field Filtered	Preservation Method	Volume Required	✓ If Sample Collected	Sample Bottle IDs
TCL VOC	___	___	2-40ML V	✓	___/___/___/___
TCL SVOC	___	___	2-1L G	✓	___/___/___/___
TCL Inorg	___	HNO_3	1-L P	✓	___/___/___/___
Cyanide	___	NaOH	500ml P	✓	___/___/___/___
Gross α,β	___	HNO_3	1-L P	✓	___/___/___/___
___	___	___	___	___	___/___/___/___
___	___	___	___	___	___/___/___/___
___	___	___	___	___	___/___/___/___

Notes: -Well in low area on N. side of Landfill Mound.
- Plastic cap is missing. Open to Atmosphere.
- Collected reference sample for turbidity Measurement. = 0 NTUs via HACH DR2000
- Sample GSMW002XXXQ2XX collected @ 1730

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: PSA-6
Site: Cutler Specialty Steel
Project Number: 7085-30
Date: 1-13-93
Sample Location ID: MW-04
Time: Start: 930 End: ____
Signature of Sampler: BK Baker

Water Level/Well Data

Well Depth 6.0 Ft. — X Measured / ___ Historical
X Top of Well / ___ Top of Protective Casing
Well Riser Stick-up 2.5 Ft. (from ground)
Protective N/A Ft. Casing/Well Difference
Protective N/A Ft. Casing

Depth to Water 4.9 Ft.
Well Material: X PVC / ___ SS / ___
Well Locked?: ___ Yes / X No
Well Dia. X 2 inch / ___ 4 inch / ___ 6 inch / ___ ___
Water Level Equip. Used: X Elect. Cond. Probe / ___ Float Activated / ___ Press. Transducer / ___ ___

Height of Water Column 1.1 Ft. X
X .16 Gal/Ft. (2 in.) / ___ .65 Gal/Ft. (4 in.) / ___ 1.5 Gal/Ft. (6 in.) / ___ ___ Gal/Ft. (___ in.)
= [0.18 Gal/Vol ; 0 Total Gal Purged]

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other Plastic Cap	X	___

NC Protective Casing

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	B-1399-16
—	—	Submersible Pump	
—	—	Bailer	
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
—	—	Press/Vac Filter	
—	—		
—	—		

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ ___
___ ___

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 0 ppm Field Data Collected ___ In-line / ___ In Container

Sample Observations: ___ Turbid / ___ Clear / ___ Cloudy / ___ Colored / ___ Odor

Purge Data	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C					
pH, units					
Specific Conductivity (umhos/cm. @ 25 Deg. C.)					
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Field Filtered	Preservation Method	Volume Required	✓ If Sample Collected	Sample Bottle IDs

Notes: * well possibly contains dedicated sampling pump? Pulled out blackened PVC hose section. Water level probe coated w/ grout. Could not purge or sample- casing pumped dry.
* No sample collected.

9202081D (a)

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: PSA-6 Site: Guterl Specialty Steel

Project Number: 7085-30 Date: 1-13-93

Sample Location ID: MW-105

Time: Start: 1350 End: 1615 Signature of Sampler: BK Butch

Water Level/Well Data

Well Depth 9.0 Ft. — X Measured / ___ Historical — X Top of Well / ___ Top of Protective Casing ___ — Well Riser Stick-up 2.10 Ft. (from ground) — Protective 0.22 Ft. Casing/Well Difference — Protective 2.32 Ft. Casing

Depth to Water 2.34 Ft. — Well Material: X PVC / ___ SS / ___ — Well Locked?: X Yes / ___ No — Well Dia. X 2 inch / ___ 4 inch / ___ 6 inch / ___ ___ — Water Level Equip. Used: X Elect. Cond. Probe / ___ Float Activated / ___ Press. Transducer / ___ ___

Height of Water Column 6.66 Ft. X [X .16 Gal/Ft (2 in.) / ___ .65 Gal/Ft (4 in.) / ___ 1.5 Gal/Ft (6 in.) / ___ ___ Gal/Ft (___ in.)] = [1.07 Gal/Vol / 21 Total Gal Purged]

Well Integrity:

	Yes	No
Prot. Casing Secure	X	___
Concrete Collar Intact	X	___
Other None	X	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	B-1399-16
—	—	Submersible Pump	
—	✓	Bailer	None
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
—	—	Press/Vac Filter	
—	—		

Decontamination Fluids Used:

(✓ All That Apply at Location)

- ___ Methanol (100%)
- ___ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- ___ Hexane
- ___ HNO_3/D.I. Water Solution
- ___ Potable Water
- ___ None
- ___ ___
- ___ ___

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 0 ppm Field Data Collected ___ In-line / X In Container

Sample Observations: X Turbid Sl. / ___ Clear / ___ Cloudy / ___ Colored / ___ Odor

Purge Data	@ 3 Gal.	@ 6 Gal.	@ 9 Gal.	@ 12 Gal.	@ 15 Gal.	18	21
Temperature, Deg. C	4.6	4.7	5.4	5.3	4.6	5.3	5.2
pH, units	8.3	8.7	8.8	8.8	8.8	8.6	8.7
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	3150	3180	3040	3400	3210	3340	3250
Oxidation - Reduction, +/- mv	+196	+171	+160	+149	+177	+177	+175
Dissolved Oxygen, ppm	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Field Filtered	Preservation Method	Volume Required	✓ If Sample Collected	Sample Bottle IDs
TCL VOC	___	___	2-40ml V	✓	___/___/___/___
TCL SVOC	___	___	2-1L G	✓	___/___/___/___
TCL Inorg.	___	HNO_3	1-1P	✓	___/___/___/___
Cyanide	___	NaOH	500ml P	✓	___/___/___/___
Grease & O	___	HNO_3	1-1P	✓	___/___/___/___
___	___	___	___	—	___/___/___/___
___	___	___	___	—	___/___/___/___
___	___	___	___	—	___/___/___/___

Notes: - Well not Previously Developed. Water @ sampling Sl. Turbid.
- V. Slow recharge.
- Collected reference sample for Turbidity Measurement = 55 NTUs via HACH DR2000
- Collected sample GSMW105XXX92XX @ 1600 hrs.

9202081D (a)

SECTION 3.0

ANALYTICAL DATA TABLES

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NO.	PROJECT NAME
[illegible]	[illegible]

SAMPLERS (SIGNATURE)

[illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 4 oz Vial	SAMPLE TYPE: 8 oz Amber	REMARKS / INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
[illegible]	[illegible]	[illegible]		X	[illegible]	4	2	2	Background Soil
[illegible]	[illegible]	1100		X	[illegible]	4	2	2	Soil
[illegible]	[illegible]	[illegible]		X	[illegible]	4	2	2	Soil

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[illegible]	10/29/93	[illegible]		1330	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received _____
Lab Location _____
Results Due _____
Client I.D. No. _____

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Client Information: Name Brian Butler
Company ABB Environmental
Mailing Adddress 110 Free St
Portland, ME 04101
Purchase Order/Job Number 7085-30

Type of Sample Soils
List Any Hazards See below

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures
known to possibly contain metals, phenols. Radiation not present above background.

Where to Send Report ☐ Directly to Client
☒ ABB - Name J. Hale

Analyses Requested By: P.K. Butler
Technical Project Professional

Approved By: P.K. Butler for G. Dykes
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required
GSBS1C1X0492XX		10/26/92	BKB/NM/TH	TCL VOCs, SVOCs, PCBs, TCL inorganics, EPTOX metals, ignitability, corrosivity, reactivity
GSBS1C4X0692XX		10/28/92	BKB/NM/TH	TCL VOCs, SVOCs, PCBs, TCL inorganics EPTOX metals, ignitability, corrosivity, reactivity
GSBS1C5X0292XX		10/28/92	BKB/NM/TH	TCL VOCs, SVOCs, PCBs, TCL inorganics, EPTOX metals, ignitability, reactivity, corrosivity

ABB Environmental Services, Inc.

ANALYSIS REQUEST FORM

Client Information: Name Glenn Daskas
Company ABB Environmental
Mailing Adddress 110 Free Street
Portland, Maine 04112
Purchase Order/Job Number 7085-30

Where to Send Report ☐ Directly to Client
☒ ABB - Name J. Hale

Analyses Requested By: BK Butler
Technical Project Professional

Approved By: BK Butler
Project Manager

Date Received
Lab Location
Results Due
Client I.D. No.

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample Surface w/ bailed
List Any Hazards metals

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures
* Gross α/β for SW, groundwater samples
* Library search all TICs
* Standard 30-day Turnaround
* All PID readings @ background

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required
GSSW002XXX92XX		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide), Gross α/β radiation. Extra Volume Provided for MS/MSD
GSSW002XXX92XD		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide), Gross α/β radiation.
GSMW001X0992XX		1/13/92	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc cyanide), Gross α/β radiation
GSMW105X0992XX		1/13/92	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide), Gross α/β radiation
GSMW002X0692XX		1/13/92	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide) Gross α/β radiation
GSQS003XXX92XX		1/13/92	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide), Gross α/β radiation
GSQT002XXX92XX		1/13/92	BKB/ML/TH	TCL VOCs only
GSSD002XXX92XX		1/13/92	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide)
GSSW003XXX92XX		1/13/92	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide), Gross α/β radiation
GSSD003XXX92XX		1/13/92	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide)

ANALYSIS REQUEST FORM

Client Information: Name Glen Dukes
Company ABB Environmental
Mailing Adddress 110 Free Street
Portland, ME 04112
Purchase Order/Job Number 7085-30

Where to Send Report ☐ Directly to Client
☒ ABB - Name J. Hale

Analyses Requested By: BK Butler
Technical Project Professional

Approved By: BK Butler
Project Manager

Date Received
Lab Location
Results Due
Client I.D. No.

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample SW/GW/SD
List Any Hazards metals

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures
see page #1

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required
GSSLW004XXX92XX		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc cyanide) Gross α/β reduction
GSSD002XXX92XD		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide)
GSSD004XXX92XX		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide)
GSSW005XXX92XX		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide) Gross α/β reduction
GSSD006XXX92XX		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc. cyanide)
GSSD005XXX92XX		1/13/93	BKB/ML/TH	TCL SVOCs, TCL VOCs, TCL inorganics (inc. cyanide)
GSSW006XXX92XX		1/13/93	BKB/ML/TH	TCL VOCs, TCL SVOCs, TCL inorganics (inc cyanide), Gross α/β reduction

ABB Environmental Services, Inc.

OH-62

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7085-30 | PROJECT NAME: Guterl Specialty Steel

SAMPLERS (SIGNATURE): BK Butler

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 4 oz VOC	8oz Amber	40ml Vial	1-Liter Amber	1-Liter Plastic	500ml Plastic					REMARKS: INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
SW-002	1/13/93	1200		X	GSSW002XXX92XX	21	6		6	6	6	3					Extra vol for MS/MSD Surface Water
Duplicate	1/13/93	1200		X	GSSW002XXX92XD	7			2	2	2	1					Duplicate
MW-01	1/13/93	1215		X	GSMW001X09 92XX	7			2	2	2	1					groundwater
MW-105	1/13/93	1600		X	GSMW105X092XX	6			2	1	2	1					groundwater
MW-02	1/13/93	1730		X	GSMW002X092XX	6			2	1	2	1					groundwater
QS-003	1/13/93	1745		X	GSQS003XXX92XX	6			2	1	2	1					Rinsate-GW
QT-002	1/13/93	1745		X	GSQT002XXX92XX	2			2								Trip Blnk
SD-002	1/13/93	1455		X	GSSD002XXX92XX	3	2	1									Sediment
Duplicate	1/13/93	1455		X	GSSD002XXX92XD	3	2	1									Sediment
SW-003	1/13/93	1515		X	GSSW003XXX92XX	7			2	2	2	1					Surface water
SD-003	1/13/93	1530		X	GSSD003XXX92XX	3	2	1									Sediment
SW-004	1/13/93	1620		X	GSSW004XXX92XX	6			2	1	2	1					Surface water
SD-004	1/13/93	1630		X	GSSD004XXX92XX	3	2	1									Sediment
SW-005	1/13/93	1645		X	GSSW005XXX92XX	6			2	1	2	1					Surface water
SD-005	1/13/93	1655		X	GSSD005XXX92XX	3	2	1									Sediment

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
BK Butler	1/13/93 2048				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	Airborne Express Airbill # 3735037025

ABB Environmental Services, Inc.

OH-62

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7085-30

PROJECT NAME: Gutel Specialty Steel

SAMPLERS (SIGNATURE):

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 4oz VOC	8oz	40 ml vial	1-L. amber	1-L. Plastic	500ml Plastic					REMARKS: INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
SW-006	1/13/93	1715		X	GSSW006XXX92XX	6			2	1	2	1					Surface water
SD-006	1/13/93	1725		X	GSSD006XXX92XX	3	2	1									Sediment

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
BLE	1/13/93 2048				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
					Airborne Express Air bill # 3735037025

ABB Environmental Services, Inc.

OH-62

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NAME	PROJECT NUMBER	SAMPLERS (SIGNATURE)	SAMPLE NO.	CONTAINERS	DATE	TIME	COMP	GRAB	SAMPLE TYPE	REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
										Extra Volume Soil for MS/MSD
										Duplicate
										Soil
										Soil
										Soil
										Soil
										Slag
										Eliminate For Above

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 BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

10/7/13

ABB Environmental Services, Inc.

ANALYSIS REQUEST FORM

Date Received _____
Lab Location _____
Results Due _____
Client I.D. No. _____

Client Information: Name Glenn Dawkins
Company ABB Environmental
Mailing Adddress 110 Free St.
Portland, Me 04112
Purchase Order/Job Number 7085-30

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample Soil
List Any Hazards metals
☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures
All radiation readings @ background,
All PID readings @ Background

Where to Send Report ☐ Directly to Client
☒ ABB - Name J. Hale

Analyses Requested By: BL Butler
Technical Project Professional
Approved By: BLB
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required
GSPS101X0292XX		1-12-93	BLB/ML	TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics (inc. cyanide), EPTOX metals, ignitability, corrosivity, reactivity (Extra Volume provided for MS/MSD)
GSPS101XD292XD		1-12-93	BLB/ML	TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics (inc. cyanide), EPTOX metals, ignitability, corrosivity, reactivity.
GSPS103X0292XX		1-12-93	BLB/ML	TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics (inc. Cyanide), EPTOX metals, ignitability, corrosivity, reactivity
GSPS106X0292XX		1-12-93	BLB/ML	TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, (inc. cyanide), EPTOX metals, ignitability, corrosivity, reactivity
GSPS105X0292XX		1-12-93	BLB/ML	TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics (inc. cyanide), EPTOX metals, ignitability, corrosivity, reactivity

ANALYSIS REQUEST FORM

Client Information: Name

Company

Mailing Address

Purchase Order/Job Number

Date Received
Lab Location
Results Due
Client I.D. No.

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample
List Any Hazards

☐ Filtered in Field ☐ Non-Filtered

Additional Information or Special Instructions

SAMPLE CODE IDENTIFICATION

ABB-ES utilizes a 14-digit sample identification code that represents sample type, sample location, depth of sample (if applicable), and designation of duplicate samples. Each individual sample has been assigned sample identification codes, listed as "Sample Location" on the following data tables. Explanation of the 14-digit system is as follows:

Digits 1 & 2 — Site Code - GS for Guterl Specialty Steel

Digits 3, 4 — Sample Type - two letter code to identify sample media
- BS - Soil Boring Sample
- PS - Test Pit Sample
- MW - Monitoring Well Groundwater Sample
- SW - Surface Water
- SD - Sediment Sample
- WT - Waste Pile Sample
- QT - Trip Blank
- QS - Sampler Blank

Digits 5,6,7 — Horizontal Sample Locator - three numbers to identify sample location

Example: 001
101

Digits 8,9,10 — Depth of Sample Below Ground Surface

Example: X01 foot
X20 feet

For MW samples, the depth indicated is assumed to be the bottom of the well screen measured in feet below ground surface.

All samples obtained from the ground surface or from drums or containers will be designated XXX.

Digits 11,12 — Year of sampling event: 92

Digits 13,14 — XX - sample
XD - duplicate sample

MEMORANDUM

TO: Brian Butler

FROM: Steve Turner

DATE: March 5, 1993

SUBJECT: Data Usability Report - Guterl Specialty Steel Site

This memo summarizes the usability of the analytical results generated for the Guterl Specialty Steel Site. Laboratory analyses were performed in accordance with the NYSDEC Analytical Services Protocol (ASP), and the data were validated using the criteria specified by USEPA Region II, modified to include NYSDEC requirements. A detailed evaluation of the laboratory quality control results is attached.

Usability is based on validated sample results. Rejected results ("R" qualifier) represent unusable data since the analyte presence or absence is uncertain. In general, sample results with qualifiers other than "R" are considered as usable. Laboratory data from the Guterl Specialty Steel Site will be used to determine whether hazardous wastes have been disposed at the site and whether the site poses a significant threat to public health and the environment.

The data validation summary attached indicates which laboratory results are considered non-compliant when compared to the ASP requirements. However, the majority of these non-compliant results represent minor quality control problems and do not affect data usability. The cases where quality control problems affected usability and/or resulted in the rejection of data are discussed in the following sections. In most cases these problems are typical analytical difficulties or are the result of sample matrix problems.

Volatile Organics

The volatile organics results were acceptable and may be considered suitable for their intended use. Methylene chloride and acetone, common laboratory contaminants, were detected in the laboratory method blank and/or the equipment blank. All sample results less than the action level were reported as non-detect. Some calibration problems (continuing calibration percent differences outside acceptance limits) were observed, which represent typical laboratory performance. The affected compounds were qualified as estimated, and this minor deficiency does not affect usability. In one case the initial calibration linearity criteria were not met for methylene chloride and total xylenes. These associated samples were qualified as estimated, and this minor deficiency does not affect usability.

KRN/GUTERLUSE/CT#9

Semivolatile Organics

The semivolatile organics analyses provided acceptable results, and the values may be used as presented. Bis(2-ethylhexyl)phthalate, diethylphthalate, and di-n-octylphthalate, common laboratory contaminants, were detected in the laboratory method blank and/or the equipment blank. All sample results less than the action level were reported as non-detect. Some calibration problems (continuing calibration percent differences outside acceptance limits) were observed, which represent typical laboratory performance. The affected compounds were qualified as estimated, and this minor deficiency does not affect usability. The extraction holding time was exceeded for GSBS101 and GSBS105RE; results for these samples should not be used to confirm the absence of SVOCs. In several cases, the internal standard responses were below the acceptance limits, and the samples were reanalyzed. The better of the two analyses were reported, and compounds quantitated using an internal standard below the acceptance limit were qualified as estimated. This minor deficiency does not affect usability. Several samples exhibited one acid surrogate recovery below 10%, indicating a potential low bias. The non-detected results for these samples were rejected and should not be used to determine the absence of semivolatile acid compounds. The MS/MSD recovery for pentachlorophenol in GSPS101 was 0%; acid results for this sample were previously rejected because of low surrogate recovery.

PCBs

The PCBs results are acceptable and may be used as presented. Several samples exhibited surrogate recoveries below the acceptance limits, indicating a potential low bias, and the results were qualified as estimated. These low recoveries may be attributable to matrix problems and do not affect the usability of the results. The soil matrix spike and matrix spike duplicate results for gamma-BHC and aldrin in GSPS001 exhibited 0% recovery, most likely the result of the high PCB concentration in this sample. However, since PCBs only were requested for these samples, this poor pesticide recovery does not affect usability.

Inorganics

The majority of the inorganics analyses are acceptable and may be used as presented. Spike recoveries for silver, zinc, arsenic, selenium, lead, thallium, vanadium, and mercury were outside the acceptance limits, indicating an accuracy problem. The associated results were qualified as estimated. These low recoveries may be attributable to matrix and/or laboratory problems and do not affect the usability of the results. However, the spike recovery was 0% for cadmium and greater than 200% for cobalt and lead, and the associated results were rejected. These results should not be used to determine the

presence or absence of these elements in the affected samples. The CRDL standard exhibited recoveries outside QC limits for antimony, chromium, copper, cadmium, and silver. This deficiency indicates that there is some uncertainty associated with results for these elements reported at or near the CRDL. ICP serial dilution results were outside acceptance limits for aluminum, chromium, and copper. The results are usable and were qualified as estimated because of a potential low bias. Manganese results were rejected because the serial dilution results indicated the potential for significant physical or chemical interference because of the sample matrix. Lead results for GSSD002/XD were rejected because the correlation coefficient for the method of standard additions was outside acceptance limits. Field duplicate precision criteria were not met for copper, manganese, and nickel. Associated sample results were qualified as estimated, and this minor deficiency does not affect usability.

Hazardous Waste Characteristics

Spike recovery for barium was below the acceptance limits, indicating an accuracy problem. The associated results were qualified as estimated. This low recovery may be attributable to matrix and/or laboratory problems and do not affect the usability of the results. The CRDL standard exhibited recoveries below QC limits for cadmium, lead, and silver. This deficiency indicates that there is some uncertainty associated with results for these elements reported at or near the CRDL. The CRDL standard recovery for silver was greater than 200% for GSWTX01. The silver result was rejected and should not be used to confirm its presence in this sample. Duplicate precision criteria were not met for chromium. Associated sample results were qualified as estimated, and this minor deficiency does not affect usability. No QC problems were observed for ignitability, corrosivity, and reactivity.

Tentatively Identified Compounds (TICs)

The ASP analytical procedures for volatile and semivolatile organics may also detect the presence of additional compounds which are not included on the Target Compound List. The mass spectra of these non-target compounds (up to 10 VOCs and 20 SVOCs) are compared to library spectra using a computerized search routine, and the best matches are evaluated by the laboratory. If a good library match can not be made the compound is reported as "unknown". The concentrations are estimated by comparing the compound's response to that of the closest internal standard.

Volatile TICs reported in waste and test pit samples include aliphatic and aromatic hydrocarbons. Semivolatile TICs reported include organic acids, aliphatic and aromatic hydrocarbons, phthalates, cycloalkanes, and polynuclear aromatic hydrocarbons. Chlorinated

biphenyl isomers were also reported, confirming the presence of PCBs in GSPS101 and GSPS103. Several apparent discrepancies were observed for the TICs reported for samples and their duplicates or re-analyses. These differences may result from; 1) a non-homogeneous sample matrix, 2) the fact that the method is not specifically developed for these additional analytes, and 3) the procedure for selecting TICs (peaks greater than 10% of the internal standard) may not include all peaks present. It should be noted that uncertainty exists both in identification and quantitation and that the estimated concentrations could be orders of magnitude higher or lower than the actual concentration.

Data Quality Objectives

Data Quality Objectives (DQOs) are based on the premise that different data uses require different levels of data quality. Data quality refers to the degree of uncertainty of analytical data with respect to precision, accuracy, representativeness, completeness, and comparability (PARCC). These objectives are established based on site conditions, the purpose of the field program, and the knowledge of the measurement systems used for generation of the analytical data. A discussion of the laboratory data quality as it relates to the PARCC objectives is presented below.

Precision and Accuracy

Precision refers to the reproducibility of a measurement under certain specified conditions, and accuracy measures the bias associated with the sampling and analysis process. Precision and accuracy are affected by both field and laboratory conditions. Precision was monitored through the analysis of field and laboratory duplicate samples; accuracy was measured through the analysis of field and laboratory blanks, matrix spikes, and surrogate spikes. The ASP protocols used for the analysis of samples define the criteria for acceptable precision and accuracy. As discussed above, the matrix spike recoveries for aldrin and gamma-BHC in the pesticide analysis, for pentachlorophenol in the SVOC analysis, for silver, zinc, arsenic, lead, selenium, thallium, vanadium, cadmium, mercury, and cobalt for the inorganics analyses, and for barium in the EP Toxicity analysis, as well as surrogate recoveries in some samples for pesticides/PCBs and for the acid surrogate for some SVOC samples, were outside acceptance limits, indicating a potential accuracy problem. Field duplicate precision criteria were not met for copper, manganese, and nickel, and for EP Toxicity chromium, which may be attributable to a non-homogeneous sample matrix or sampling/laboratory problems. All other precision and accuracy results were acceptable.

Several target analytes were reported at concentrations less than the CRQL (and were qualified as estimated, "J"). Uncertainty exists for the quantitation of concentrations less

than the CRQL. While these results provide information on the presence of contamination, these values should be qualified for use in decisions. In some cases poor precision was observed between the two columns used for pesticides/PCBs analyses, and the results were qualified with a "P" by the laboratory. While these concentrations should be considered as estimated, they provide an indication of contamination and are suitable for use.

Representativeness

Measurements are made so that the results obtained are representative of the sampling population, the medium (e.g. soil and groundwater), and the site conditions. The sampling protocols were developed to ensure that the samples were representative of the media, that sampling locations were properly selected, and that a sufficient number of samples were collected. Sample handling protocols (chain-of-custody, storage, and transportation) were adequate to preserve the sample integrity. Proper documentation established that the correct protocols had been followed. Co-located samples (field duplicates) were also collected to assess representativeness, and no major problems were observed which would affect usability.

Completeness

The characteristic of completeness is defined as the percent of valid data obtained as compared to what would be expected under normal conditions. The USEPA has found that CLP protocols typically generate data that is 80% complete. Because sampling activities are often influenced by field conditions the Guterl Specialty Steel Site Work Plan provided estimates of the number of samples to be collected during the field program. There were no significant deviations from the proposed field program. Completeness was calculated to be 100% for the VOCs analyses. Because of the rejected results, completeness for SVOCs, pesticides/PCBs, inorganics, and EP Toxicity metals is 96%, 94%, and 99%, respectively.

Comparability

The characteristic of comparability reflects both the internal consistency of measurements and the expression of results in units which are consistent with other organizations reporting similar data. Each value reported for a given measurement should be similar to other values within the same data set and with other related data sets. Comparability was assured through the use of standardized sampling procedures and ASP analytical methods.

MEMORANDUM

To: Brian Butler

From: Kate Kuebler / Steve Turner

Date: March 4, 1993

Subject: Validation : Guterl Specialty Steel Site
Project No.: 07085-30
Sampling Dates: October 28, 1992
January 12 - 13, 1992

Review is complete for the data packages generated by NEI pertaining to soil, sediment, waste, and water samples collected at the Guterl Specialty Steel Site. Review was performed following USEPA Region II guidelines. Samples were analyzed for various combinations of TCL organics, TCL inorganics, EPTOX metals, corrosivity, reactivity, and ignitability by NYSDEC ASP methodologies. Samples were also analyzed for gross alpha and gross beta nuclide activity. Package documentation was generally complete, with the following resubmission requested:

1. Form 7-B Semivolatile Continuing Calibration with corrected average response factors.

The data tables referred to in this memo are comprised of the following:

Table 1 : Laboratory Report of Analysis
Table 2 : Validation / Summary Table
Table 3 : Summary Table

The following subsections summarize the qualifications/edits that have been determined by validation.

All Organic Analyses

Compound results below the CRQL were flagged with a J by the laboratory. These were flagged JJ on Tables 2 and 3.

Volatile and semivolatile compound results greater than the calibration range were flagged with an E by the laboratory. Samples containing these compounds were diluted and reanalyzed, and the diluted results flagged with a D. On Table 2, the diluted results for all compounds beyond calibration range were inserted into the original results and the remainder of the diluted analysis deleted from Table 2 and Table 3.

Pesticide/PCB compounds that had greater than 25% difference between the results of the two columns were flagged with a P by the laboratory. These were flagged J on Tables 2 and 3.

Volatile Analyses - Qualifications/Edits

1. Due to method blank contamination, methylene chloride should be considered nondetect in all GSMW, GSSW, GSSD, GSPS, and GSWT samples.

2. Due to method blank contamination, acetone should be considered nondetect in GSPS101/XX and all GSSD samples.

3. Due to equipment blank contamination, acetone should be considered nondetect in GSPS101/XD, GSPS103, GSPS104, GSPS105, and GSPS106.

4. Initial calibration linearity criteria were not met for two compounds. Methylene chloride results were estimated in GSBS101, GSBS104, and GSBS105. Xylene results were estimated in GSPS106.

5. Several continuing calibration standard compounds had noncompliant percent difference results. Positive and nondetect results were estimated in associated samples for chloromethane, chloroethane, vinyl chloride, methylene chloride, acetone, 1,1-dichloroethane, 2-butanone, 1,2-dichloropropane, 4-methyl-2-pentanone, and 2-hexanone.

Volatile Analyses - Comments

Please see items 1 - 5 under **Qualifications/Edits.** All volatile analyses were performed within hold times. All method blank, instrument tune, surrogate recovery, internal standard area, and internal standard retention time criteria were met. Initial and continuing calibration standards that did not meet criteria had no effect on the results except as discussed above. All matrix spike blank, matrix spike and matrix spike duplicate recoveries were acceptable for soils and waters. All field duplicate results were acceptable. Volatile TICs were identified in most GSSD and GSPS samples.

Semivolatile Analyses - Qualifications/Edits

6. Hold time was exceeded for the extraction of GSBS101 and GSBS105RE. All results were estimated in both samples.

7. Due to method blank contamination, bis(2-ethylhexyl)phthalate (BEHP) should be considered nondetect in GSBS101, GSBS104,GSBS104RE, GSBS105, GSBS105RE, GSWTX01, GSSD002/XX, GSSD002/XD, GSSD003, GSSD005, and all GSPS samples.

8. Due to equipment blank contamination, diethylphthalate should be considered nondetect in GSSD002/XX, GSSD002/XD, GSSD004, and GSSD006.

9. Due to equipment blank contamination, di-n-octylphthalate should be considered nondetect in GSBS104 and GSBS104RE.

10. Due to equipment blank contamination, diethylphthalate should be considered nondetect in GSPS101 and GSPS103.

11. The area for internal standard chrysene-d12 was below QC limits for the analysis of GSPS103. The sample was not reanalyzed. All compounds quantitated by this standard were estimated.

12. Two internal standard (IS) areas were below QC limits in the initial analysis of GSBS104. The sample was reanalyzed with only one noncompliant IS area. The results of the reanalysis were presented on Tables 2 and 3. All compounds quantitated with phenanthrene-d10 were estimated.

13. The area for internal standard chrysene-d12 was below QC limits in the initial analysis of GSBS105. The sample was reanalyzed with all IS areas compliant. The reanalysis exceeded hold time, so the results of the initial analysis were presented on Tables 2 and 3. All compounds quantitated with chrysene-d12 were estimated.

14. The area for internal standard chrysene-d12 was below QC limits in the initial analysis of GSMW001. The sample was reanalyzed with all IS areas compliant. Result of the reanalysis were presented on Tables 2 and 3.

15. Several samples had one acid surrogate with less than 10% recovery. These samples were not reanalyzed. All nondetect results were rejected and all positive results were estimated in the acid fraction of GSPS101/XX, GSPS101/XD, GSPS103, GSPS104, and GSPS106.

16. Continuing calibration standard compounds had noncompliant percent difference results. Positive and nondetect results were estimated in associated samples for di-n-

octylphthalate, bis(2-ethylhexyl)phthalate, 3-nitroaniline, 4-nitrophenol, 2,4-dinitrophenol, 4,6-dinitrophenol, 4,6-dinitro-2-methylphenol, hexachlorocyclopentadiene, 3,3'-dichlorobenzidine, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene.

Semivolatile Analyses - Comments

Please see items 6 - 16 under **Qualifications/Edits.** All instrument tune and method blank criteria were met for all analyses. Initial and continuing calibration standards that did not meet criteria had no effect on the results except as discussed above. The soil matrix spike blank results were within QC limits. Aqueous matrix spike blank showed recovery above QC limits for 4-nitrophenol and pentachlorophenol. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were acceptable for the aqueous samples and the GSBS samples, except the aqueous MS recovery of pyrene which was above QC limits. The MS and MSD for the GSPS samples had 0% recovery of pentachlorophenol. It should be noted that one acid surrogate was less than 10% in the MS and MSD analyses for the GSPS sample. All field duplicate results were acceptable. TICs were identified in most samples.

PCB Analyses - Qualifications/Edits

17. Surrogate recoveries were below QC limits on Column 2 during the analysis of GSPS105. All results were estimated **except** the result for Aroclor 1260 (which was quantitated from Column 1).

18. Due to the high concentration of Aroclor 1248, samples GSPS101/XX and GSPS101/XD were analyzed at a secondary dilution. The diluted results for this analyte were presented on Tables 2 and 3 with the initial analysis results.

19. The initial analysis of GSBS105 had 0% recovery for all surrogates. The sample was re-extracted and analyzed, with all surrogates compliant. Results of the reanalysis were presented on Tables 2 and 3.

20. All surrogates had recovery below QC limits in the analysis of GSBS104. All results were estimated.

PCB Analyses - Comments

Please see items 17 - 20 under **Qualifications/Edits.** All samples were extracted and analyzed within hold time. All method blank, instrument blank, and standard sequencing

criteria were met. All matrix spike blank (MSB) recoveries were within the required limits. The results of the matrix spike (MS) and the matrix spike duplicate (MSD) for the GSBS samples were acceptable. Sample GSBS101 was re-extracted and reanalyzed along with the MS/MSD. In the MS for the GSPS samples, gamma-BHC, aldrin, and dieldrin had 0% recovery, heptachlor recovered above QC limits and endrin recovered below QC limits. The MSD results for these PS samples also showed 0% recovery for gamma-BHC and aldrin, and recoveries above QC limits for heptachlor and 4,4'-DDT. It should be noted that the sample used for the MS/MSD had high concentrations of Aroclor 1248. Field duplicate results were acceptable.

Inorganic Analyses - Qualifications/Edits

21. Several CRDL standard recoveries were below QC limits. Results for the following analytes were estimated in the associated samples:

ANALYTE	SAMPLES
Antimony	All samples
Chromium	All GSBS samples;

22. Several CRDL standard recoveries were above QC limits. Positive results for the following analytes were estimated in the associated samples:

ANALYTE	SAMPLES
Copper	GSBS101, GSBS104, GSBS105;
Cadmium	GSSW004;
Silver	GSWTX01;

23. Several sample spike recoveries were below QC limits. Results for the following analytes were estimated in the associated samples:

ANALYTE	SAMPLES
Silver	All GSBS, GSPS, GSSD, and GSWT;
Zinc	All GSBS, GSPS, GSSD, and GSWT;
Arsenic	All GSPS, GSSD, and GSWT;
Selenium	All GSPS, GSSD, and GSWT;
Lead(ICP only)	All GSPS;
Thallium	All SW and MW;

Vanadium	All SW and MW;
Lead	All SW and MW;

24. Spike sample recovery for cadmium was 0%. All results were rejected for GSPS, GSSD, and GSWT samples.

25. Sample spike recoveries for mercury and vanadium were above QC limits. Positive mercury results in the GSBS samples and positive vanadium results in the GSPS, GSSD, and GSWT samples were estimated.

26. Sample spike recovery for cobalt was greater than 200% percent. Positive cobalt results were rejected in all GSPS, GSSD, and GSWT samples.

27. Sample spike recovery for lead was greater than 200% in the graphite furnace analysis. Positive results were rejected in GSBS101.

28. Lead results were rejected in GSSD002/XD due to the correlation coefficient less than 0.990 for the method of standard addition (MSA).

29. ICP serial dilution criteria were not met for aluminum, chromium, and copper. Positive results greater than 10X IDL were estimated in GSBS101, GSBS104, and GSBS105.

30. ICP serial dilution result for manganese was greater than 100% difference from the original sample result. Manganese results greater than 10X IDL were rejected in all MW and SW samples.

31. Field duplicate precision criteria were not met for copper, manganese, and nickel. Results were estimated in GSPS101/XX and GSPS101/XD.

32. Field duplicate precision criteria were not met for copper and nickel. Results were estimated in GSSD002/XX and GSSD002/XD.

Inorganic Analyses - Comments

Please see items 21 - 32 under **Qualifications/Edits.** All appropriate QC criteria were reviewed and found acceptable unless noted under **Qualifications/Edits.** Surface water field duplicate results were acceptable.

EPTOX Metals Analyses - Qualifications/Edits

33. CRDL standard recoveries were below QC limits for cadmium, lead, and silver. Results were estimated in GSBS101, GSBS104, and GSBS105.

34. CRDL standard recovery for silver was greater than 200%. Positive results in GSWTX01 were rejected.

35. Laboratory duplicate precision criteria were not met for chromium. Results were estimated in GSBS101, GSBS104, and GSBS105.

36. Spike sample recovery of barium was below QC limits. Results were estimated in all GSPS and GSWT samples.

37. Field duplicate precision criteria were not met for chromium. Results were estimated in GSPS101/XX and GSPS101/XD.

EPTOX Metals Analyses - Comments

Please see items 33 - 37 under **Qualifications/Edits.** All appropriate QC criteria were reviewed and found acceptable unless noted under **Qualifications/Edits.**

Ignitability, Corrosivity, Reactivity Analyses - Qualifications/Edits

There were no qualifications or edits to these data.

Ignitability, Corrosivity, Reactivity Analyses - Comments

Data were reviewed for hold time exceedances, method blank contamination, laboratory duplicate precision, and laboratory spike recovery. All QC results were acceptable.

Gross Alpha / Gross Beta Activity Analyses - Comments

These data were not reviewed. Only Table 1, Laboratory Report of Analysis is provided.

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
	LAB NUMBER:	1544705 #	1544707 #	1544706 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93
	DATE ANALYZED:	01/22/93	01/22/93	01/22/93
ANALYTE	SOW-3/90 - II CRQL			
Chloromethane	10	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U
Methylene Chloride	10	8 BJ	8 BJ	6 BJ
Acetone	10	10 U	10 U	10 U
Carbon Disulfide	10	10 U	10 U	10 U
1,1-Dichloroethene	10	10 U	10 U	10 U
1,1-Dichloroethane	10	10 U	10 U	10 U
1,2-Dichloroethene (total)	10	10 U	10 U	10 U
Chloroform	10	10 U	10 U	10 U
1,2-Dichloroethane	10	10 U	10 U	10 U
2-Butanone	10	10 U	10 U	10 U
1,1,1-Trichloroethane	10	10 U	10 U	10 U
Carbon Tetrachloride	10	10 U	10 U	10 U
Bromodichloromethane	10	10 U	10 U	10 U
1,2-Dichloropropane	10	10 U	10 U	10 U
cis-1,3-Dichloropropene	10	10 U	10 U	10 U
Trichloroethene	10	10 U	10 U	10 U
Dibromochloromethane	10	10 U	10 U	10 U
1,1,2-Trichloroethane	10	10 U	10 U	10 U
Benzene	10	10 U	10 U	10 U
trans-1,3-Dichloropropene	10	10 U	10 U	10 U
Bromoform	10	10 U	10 U	10 U
4-Methyl-2-Pentanone	10	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U
Tetrachloroethene	10	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10	10 U	10 U	10 U
Toluene	10	10 U	10 U	10 U
Chlorobenzene	10	10 U	10 U	10 U
Ethylbenzene	10	10 U	10 U	10 U
Styrene	10	10 U	10 U	10 U
Total Xylenes	10	10 U	10 U	10 U
Dilution Factor:		1.00	1.00	1.00
Associated Method Blank:		D4033	D4033	D4033
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-
Associated Trip Blank:		GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

SAMPLE LOCATION:	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
LAB NUMBER:	1544705 #	1544707 #	1544706 #
DATE SAMPLED:	01/13/93	01/13/93	01/13/93
DATE ANALYZED:	01/22/93	01/22/93	01/22/93

ANALYTE	SOW-3/90 - II CRQL			
Chloromethane	10	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U
Methylene Chloride	10	10 UJ	10 UJ	10 UJ
Acetone	10	10 UJ	10 UJ	10 UJ
Carbon Disulfide	10	10 U	10 U	10 U
1,1-Dichloroethene	10	10 U	10 U	10 U
1,1-Dichloroethane	10	10 UJ	10 UJ	10 UJ
1,2-Dichloroethene (total)	10	10 U	10 U	10 U
Chloroform	10	10 U	10 U	10 U
1,2-Dichloroethane	10	10 U	10 U	10 U
2-Butanone	10	10 UJ	10 UJ	10 UJ
1,1,1-Trichloroethane	10	10 U	10 U	10 U
Carbon Tetrachloride	10	10 U	10 U	10 U
Bromodichloromethane	10	10 U	10 U	10 U
1,2-Dichloropropane	10	10 UJ	10 UJ	10 UJ
cis-1,3-Dichloropropene	10	10 U	10 U	10 U
Trichloroethene	10	10 U	10 U	10 U
Dibromochloromethane	10	10 U	10 U	10 U
1,1,2-Trichloroethane	10	10 U	10 U	10 U
Benzene	10	10 U	10 U	10 U
trans-1,3-Dichloropropene	10	10 U	10 U	10 U
Bromoform	10	10 U	10 U	10 U
4-Methyl-2-Pentanone	10	10 UJ	10 UJ	10 UJ
2-Hexanone	10	10 UJ	10 UJ	10 UJ
Tetrachloroethene	10	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10	10 U	10 U	10 U
Toluene	10	10 U	10 U	10 U
Chlorobenzene	10	10 U	10 U	10 U
Ethylbenzene	10	10 U	10 U	10 U
Styrene	10	10 U	10 U	10 U
Total Xylenes	10	10 U	10 U	10 U
Dilution Factor:		1.00	1.00	1.00

Associated Method Blank:	D4033	D4033	D4033
Associated Equipment Blank:	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:	-	-	-
Associated Trip Blank:	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
	LAB NUMBER:	1544705 #	1544707 #	1544706 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93
	DATE ANALYZED:	01/22/93	01/22/93	01/22/93
ANALYTE	SOW-3/90 - II CRQL			
Chloromethane	10	-	-	-
Bromomethane	10	-	-	-
Vinyl Chloride	10	-	-	-
Chloroethane	10	-	-	-
Methylene Chloride	10	-	-	-
Acetone	10	-	-	-
Carbon Disulfide	10	-	-	-
1,1-Dichloroethene	10	-	-	-
1,1-Dichloroethane	10	-	-	-
1,2-Dichloroethene (total)	10	-	-	-
Chloroform	10	-	-	-
1,2-Dichloroethane	10	-	-	-
2-Butanone	10	-	-	-
1,1,1-Trichloroethane	10	-	-	-
Carbon Tetrachloride	10	-	-	-
Bromodichloromethane	10	-	-	-
1,2-Dichloropropane	10	-	-	-
cis-1,3-Dichloropropene	10	-	-	-
Trichloroethene	10	-	-	-
Dibromochloromethane	10	-	-	-
1,1,2-Trichloroethane	10	-	-	-
Benzene	10	-	-	-
trans-1,3-Dichloropropene	10	-	-	-
Bromoform	10	-	-	-
4-Methyl-2-Pentanone	10	-	-	-
2-Hexanone	10	-	-	-
Tetrachloroethene	10	-	-	-
1,1,2,2-Tetrachloroethane	10	-	-	-
Toluene	10	-	-	-
Chlorobenzene	10	-	-	-
Ethylbenzene	10	-	-	-
Styrene	10	-	-	-
Total Xylenes	10	-	-	-
Dilution Factor:		1.00	1.00	1.00
Associated Method Blank:		D4033	D4033	D4033
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-
Associated Trip Blank:		GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
	LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE ANALYZED:	01/22/93	01/23/93	01/23/93	01/23/93	01/23/93	01/23/93
ANALYTE	SOW-3/90 - II CRQL						
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10	8 BJ	10 B	6 BJ	11 B	9 BJ	9 BJ
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	10	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10	1 J	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Total Xylenes	10	10 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Associated Method Blank:		D4033	D4049	D4033	D4049	D4049	D4049
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-	-	-
Associated Trip Blank:		GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel

Volatile Organic Aqueous Analysis (ug/L)

03/03/93

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
	LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE ANALYZED:	01/22/93	01/23/93	01/23/93	01/23/93	01/23/93	01/23/93
ANALYTE	SOW-3/90 - II CRQL						
Chloromethane	10	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10	10 UJ	10 UJ	10 UJ	11 UJ	10 UJ	10 UJ
Acetone	10	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Carbon Disulfide	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10	10 UJ	10 U	10 UJ	10 U	10 U	10 U
1,2-Dichloroethene (total)	10	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,1,1-Trichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10	10 UJ	10 U	10 UJ	10 U	10 U	10 U
cis-1,3-Dichloropropene	10	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	10	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Tetrachloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10	1 JJ	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Total Xylenes	10	10 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Associated Method Blank:		D4033	D4049	D4033	D4049	D4049	D4049
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-	-	-
Associated Trip Blank:		GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
	LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE ANALYZED:	01/22/93	01/23/93	01/23/93	01/23/93	01/23/93	01/23/93
ANALYTE	SOW-3/90 - II CRQL						
Chloromethane	10	-	-	-	-	-	-
Bromomethane	10	-	-	-	-	-	-
Vinyl Chloride	10	-	-	-	-	-	-
Chloroethane	10	-	-	-	-	-	-
Methylene Chloride	10	-	-	-	-	-	-
Acetone	10	-	-	-	-	-	-
Carbon Disulfide	10	-	-	-	-	-	-
1,1-Dichloroethene	10	-	-	-	-	-	-
1,1-Dichloroethane	10	-	-	-	-	-	-
1,2-Dichloroethene (total)	10	-	-	-	-	-	-
Chloroform	10	-	-	-	-	-	-
1,2-Dichloroethane	10	-	-	-	-	-	-
2-Butanone	10	-	-	-	-	-	-
1,1,1-Trichloroethane	10	-	-	-	-	-	-
Carbon Tetrachloride	10	-	-	-	-	-	-
Bromodichloromethane	10	-	-	-	-	-	-
1,2-Dichloropropane	10	-	-	-	-	-	-
cis-1,3-Dichloropropene	10	-	-	-	-	-	-
Trichloroethene	10	-	-	-	-	-	-
Dibromochloromethane	10	-	-	-	-	-	-
1,1,2-Trichloroethane	10	-	-	-	-	-	-
Benzene	10	-	-	-	-	-	-
trans-1,3-Dichloropropene	10	-	-	-	-	-	-
Bromoform	10	-	-	-	-	-	-
4-Methyl-2-Pentanone	10	-	-	-	-	-	-
2-Hexanone	10	-	-	-	-	-	-
Tetrachloroethene	10	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	10	-	-	-	-	-	-
Toluene	10	1 JJ	-	-	-	-	-
Chlorobenzene	10	-	-	-	-	-	-
Ethylbenzene	10	-	-	-	-	-	-
Styrene	10	-	-	-	-	-	-
Total Xylenes	10	-	-	-	-	-	-
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Associated Method Blank:		D4033	D4049	D4033	D4049	D4049	D4049
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-	-	-
Associated Trip Blank:		GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX	GSQT002XXX92XX

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSQT002XXX92XX
LAB NUMBER: 1544719
DATE SAMPLED: 01/13/93
DATE ANALYZED: 01/22/93

ANALYTE	SOW-3/90 - II CRQL		
Chloromethane	10	10	U
Bromomethane	10	10	U
Vinyl Chloride	10	10	U
Chloroethane	10	10	U
Methylene Chloride	10	9	BJ
Acetone	10	10	U
Carbon Disulfide	10	10	U
1,1-Dichloroethene	10	10	U
1,1-Dichloroethane	10	10	U
1,2-Dichloroethene (total)	10	10	U
Chloroform	10	10	U
1,2-Dichloroethane	10	10	U
2-Butanone	10	10	U
1,1,1-Trichloroethane	10	10	U
Carbon Tetrachloride	10	10	U
Bromodichloromethane	10	10	U
1,2-Dichloropropane	10	10	U
cis-1,3-Dichloropropene	10	10	U
Trichloroethene	10	10	U
Dibromochloromethane	10	10	U
1,1,2-Trichloroethane	10	10	U
Benzene	10	10	U
trans-1,3-Dichloropropene	10	10	U
Bromoform	10	10	U
4-Methyl-2-Pentanone	10	10	U
2-Hexanone	10	10	U
Tetrachloroethene	10	10	U
1,1,2,2-Tetrachloroethane	10	10	U
Toluene	10	10	U
Chlorobenzene	10	10	U
Ethylbenzene	10	10	U
Styrene	10	10	U
Total Xylenes	10	10	U
Dilution Factor:		1.00	

Associated Method Blank: D4049
Associated Equipment Blank: -
Associated Field Blank: -
Associated Trip Blank: -

Site: TRIP BLANK
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable
J: Estimated B: Blank contamination D: Diluted result -: Not detected

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSQS001XXX92XX	GSQS003XXX92XX
	LAB NUMBER:	1541911	1544708
	DATE SAMPLED:	01/12/93	01/13/93
	DATE ANALYZED:	01/20/93	01/22/93

ANALYTE	SOW-3/90 - II CRQL				
Chloromethane	10	10	U	10	U
Bromomethane	10	10	U	10	U
Vinyl Chloride	10	10	U	10	U
Chloroethane	10	10	U	10	U
Methylene Chloride	10	13	B	5	BJ
Acetone	10	8	BJ	10	U
Carbon Disulfide	10	10	U	10	U
1,1-Dichloroethene	10	10	U	10	U
1,1-Dichloroethane	10	10	U	10	U
1,2-Dichloroethene (total)	10	10	U	10	U
Chloroform	10	2	J	2	J
1,2-Dichloroethane	10	10	U	10	U
2-Butanone	10	11		10	U
1,1,1-Trichloroethane	10	10	U	10	U
Carbon Tetrachloride	10	10	U	10	U
Bromodichloromethane	10	10	U	10	U
1,2-Dichloropropane	10	10	U	10	U
cis-1,3-Dichloropropene	10	10	U	10	U
Trichloroethene	10	10	U	10	U
Dibromochloromethane	10	10	U	10	U
1,1,2-Trichloroethane	10	10	U	10	U
Benzene	10	10	U	10	U
trans-1,3-Dichloropropene	10	10	U	10	U
Bromoform	10	10	U	10	U
4-Methyl-2-Pentanone	10	10	U	10	U
2-Hexanone	10	10	U	10	U
Tetrachloroethene	10	10	U	10	U
1,1,2,2-Tetrachloroethane	10	10	U	10	U
Toluene	10	10	U	10	U
Chlorobenzene	10	10	U	10	U
Ethylbenzene	10	10	U	10	U
Styrene	10	10	U	10	U
Total Xylenes	10	10	U	10	U
Dilution Factor:		1.00		1.00	

Associated Method Blank:	K5392	D4033
Associated Equipment Blank:	-	-
Associated Field Blank:	-	-
Associated Trip Blank:	-	-

Site: EQUIPMENT RINSATE
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable
J: Estimated B: Blank contamination D: Diluted result -: Not detected

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Volatile Organic Soil Analysis (ug/kg) — 03/03/93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
DATE ANALYZED:	01/25/93	01/25/93	01/25/93	01/25/93	01/25/93	01/25/93

ANALYTE	SOW-3/90 - II CRQL											
Chloromethane	10	16	U	18	U	14	U	17	U	16	U	12	U
Bromomethane	10	16	U	18	U	14	U	17	U	16	U	12	U
Vinyl Chloride	10	16	U	18	U	14	U	17	U	16	U	12	U
Chloroethane	10	16	U	18	U	14	U	17	U	16	U	12	U
Methylene Chloride	10	21	B	21	B	25	B	16	BJ	26	B	16	B
Acetone	10	120	B	100	B	75	B	70	B	140	B	83	B
Carbon Disulfide	10	16	U	18	U	14	U	17	U	16	U	12	U
1,1-Dichloroethene	10	16	U	18	U	14	U	17	U	16	U	12	U
1,1-Dichloroethane	10	16	U	18	U	14	U	17	U	16	U	12	U
1,2-Dichloroethene (total)	10	16	U	18	U	14	U	17	U	16	U	12	U
Chloroform	10	16	U	18	U	14	U	17	U	16	U	12	U
1,2-Dichloroethane	10	16	U	18	U	14	U	17	U	16	U	12	U
2-Butanone	10	16	U	18	U	14	U	17	U	16	U	12	U
1,1,1-Trichloroethane	10	16	U	18	U	14	U	17	U	16	U	12	U
Carbon Tetrachloride	10	16	U	18	U	14	U	17	U	16	U	12	U
Bromodichloromethane	10	16	U	18	U	14	U	17	U	16	U	12	U
1,2-Dichloropropane	10	16	U	18	U	14	U	17	U	16	U	12	U
cis-1,3-Dichloropropene	10	16	U	18	U	14	U	17	U	16	U	12	U
Trichloroethene	10	16	U	18	U	14	U	17	U	16	U	12	U
Dibromochloromethane	10	16	U	18	U	14	U	17	U	16	U	12	U
1,1,2-Trichloroethane	10	16	U	18	U	14	U	17	U	16	U	12	U
Benzene	10	16	U	18	U	14	U	17	U	16	U	12	U
trans-1,3-Dichloropropene	10	16	U	18	U	14	U	17	U	16	U	12	U
Bromoform	10	16	U	18	U	14	U	17	U	16	U	12	U
4-Methyl-2-Pentanone	10	16	U	18	U	14	U	17	U	16	U	12	U
2-Hexanone	10	16	U	18	U	14	U	17	U	16	U	12	U
Tetrachloroethene	10	16	U	18	U	14	U	17	U	16	U	12	U
1,1,2,2-Tetrachloroethane	10	16	U	18	U	14	U	17	U	16	U	12	U
Toluene	10	16	U	18	U	14	U	17	U	16	U	12	U
Chlorobenzene	10	16	U	18	U	14	U	17	U	16	U	12	U
Ethylbenzene	10	16	U	18	U	14	U	17	U	16	U	12	U
Styrene	10	16	U	18	U	14	U	17	U	16	U	12	U
Total Xylenes	10	16	U	18	U	14	U	17	U	16	U	12	U

Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:	63	56	70	60	62	80
Associated Method Blank:	L0160	L0160	L0160	L0160	L0160	L0160
Associated Equipment Blank:	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:	-	-	-	-	-	-
Associated Trip Blank:	-	-	-	-	-	-

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
	LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE ANALYZED:	01/25/93	01/25/93	01/25/93	01/25/93	01/25/93	01/25/93
ANALYTE	SOW-3/90 - II CRQL						
Chloromethane	10	16 U	18 U	14 U	17 U	16 U	12 U
Bromomethane	10	16 U	18 U	14 U	17 U	16 U	12 U
Vinyl Chloride	10	16 UJ	18 UJ	14 UJ	17 UJ	16 UJ	12 UJ
Chloroethane	10	16 U	18 U	14 U	17 U	16 U	12 U
Methylene Chloride	10	21 U	21 U	25 U	16 U	26 U	16 U
Acetone	10	120 U	100 U	75 U	70 U	140 U	83 U
Carbon Disulfide	10	16 U	18 U	14 U	17 U	16 U	12 U
1,1-Dichloroethene	10	16 U	18 U	14 U	17 U	16 U	12 U
1,1-Dichloroethane	10	16 U	18 U	14 U	17 U	16 U	12 U
1,2-Dichloroethene (total)	10	16 U	18 U	14 U	17 U	16 U	12 U
Chloroform	10	16 U	18 U	14 U	17 U	16 U	12 U
1,2-Dichloroethane	10	16 U	18 U	14 U	17 U	16 U	12 U
2-Butanone	10	16 U	18 U	14 U	17 U	16 U	12 U
1,1,1-Trichloroethane	10	16 U	18 U	14 U	17 U	16 U	12 U
Carbon Tetrachloride	10	16 U	18 U	14 U	17 U	16 U	12 U
Bromodichloromethane	10	16 U	18 U	14 U	17 U	16 U	12 U
1,2-Dichloropropane	10	16 U	18 U	14 U	17 U	16 U	12 U
cis-1,3-Dichloropropene	10	16 U	18 U	14 U	17 U	16 U	12 U
Trichloroethene	10	16 U	18 U	14 U	17 U	16 U	12 U
Dibromochloromethane	10	16 U	18 U	14 U	17 U	16 U	12 U
1,1,2-Trichloroethane	10	16 U	18 U	14 U	17 U	16 U	12 U
Benzene	10	16 U	18 U	14 U	17 U	16 U	12 U
trans-1,3-Dichloropropene	10	16 U	18 U	14 U	17 U	16 U	12 U
Bromoform	10	16 U	18 U	14 U	17 U	16 U	12 U
4-Methyl-2-Pentanone	10	16 U	18 U	14 U	17 U	16 U	12 U
2-Hexanone	10	16 U	18 U	14 U	17 U	16 U	12 U
Tetrachloroethene	10	16 U	18 U	14 U	17 U	16 U	12 U
1,1,2,2-Tetrachloroethane	10	16 U	18 U	14 U	17 U	16 U	12 U
Toluene	10	16 U	18 U	14 U	17 U	16 U	12 U
Chlorobenzene	10	16 U	18 U	14 U	17 U	16 U	12 U
Ethylbenzene	10	16 U	18 U	14 U	17 U	16 U	12 U
Styrene	10	16 U	18 U	14 U	17 U	16 U	12 U
Total Xylenes	10	16 U	18 U	14 U	17 U	16 U	12 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		63	56	70	60	62	80
Associated Method Blank:		L0160	L0160	L0160	L0160	L0160	L0160
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-
Associated Trip Blank:		-	-	-	-	-	-

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Volatile Organic Soil Analysis (ug/kg) | 03/03/93

Table 3
Summary Table

	SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
	LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE ANALYZED:	01/25/93	01/25/93	01/25/93	01/25/93	01/25/93	01/25/93
ANALYTE	SOW-3/90 - II CRQL						
Chloromethane	10	-	-	-	-	-	-
Bromomethane	10	-	-	-	-	-	-
Vinyl Chloride	10	-	-	-	-	-	-
Chloroethane	10	-	-	-	-	-	-
Methylene Chloride	10	-	-	-	-	-	-
Acetone	10	-	-	-	-	-	-
Carbon Disulfide	10	-	-	-	-	-	-
1,1-Dichloroethene	10	-	-	-	-	-	-
1,1-Dichloroethane	10	-	-	-	-	-	-
1,2-Dichloroethene (total)	10	-	-	-	-	-	-
Chloroform	10	-	-	-	-	-	-
1,2-Dichloroethane	10	-	-	-	-	-	-
2-Butanone	10	-	-	-	-	-	-
1,1,1-Trichloroethane	10	-	-	-	-	-	-
Carbon Tetrachloride	10	-	-	-	-	-	-
Bromodichloromethane	10	-	-	-	-	-	-
1,2-Dichloropropane	10	-	-	-	-	-	-
cis-1,3-Dichloropropene	10	-	-	-	-	-	-
Trichloroethene	10	-	-	-	-	-	-
Dibromochloromethane	10	-	-	-	-	-	-
1,1,2-Trichloroethane	10	-	-	-	-	-	-
Benzene	10	-	-	-	-	-	-
trans-1,3-Dichloropropene	10	-	-	-	-	-	-
Bromoform	10	-	-	-	-	-	-
4-Methyl-2-Pentanone	10	-	-	-	-	-	-
2-Hexanone	10	-	-	-	-	-	-
Tetrachloroethene	10	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	10	-	-	-	-	-	-
Toluene	10	-	-	-	-	-	-
Chlorobenzene	10	-	-	-	-	-	-
Ethylbenzene	10	-	-	-	-	-	-
Styrene	10	-	-	-	-	-	-
Total Xylenes	10	-	-	-	-	-	-
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		63	56	70	60	62	80
Associated Method Blank:		L0160	L0160	L0160	L0160	L0160	L0160
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-
Associated Trip Blank:		-	-	-	-	-	-

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Volatile Organic Soil Analysis (ug/kg) — 03/03/93

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
		LAB NUMBER: 1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
		DATE SAMPLED: 01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
		DATE ANALYZED: 01/21/93	01/19/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93
Chloromethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Bromomethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Vinyl Chloride	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Chloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Methylene Chloride	10	6 BJ	12 B	6 BJ	5 BJ	6 BJ	9 BJ	6 BJ
Acetone	10	15	13 B	11 U	53	10 J	11 J	46
Carbon Disulfide	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1-Dichloroethene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1-Dichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,2-Dichloroethene (total)	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Chloroform	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,2-Dichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
2-Butanone	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1,1-Trichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Carbon Tetrachloride	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Bromodichloromethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,2-Dichloropropane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
cis-1,3-Dichloropropene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Trichloroethene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Dibromochloromethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1,2-Trichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Benzene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
trans-1,3-Dichloropropene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Bromoform	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
4-Methyl-2-Pentanone	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
2-Hexanone	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Tetrachloroethene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1,2,2-Tetrachloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Toluene	10	12 U	12 U	11 U	13 U	12 U	15 U	1 J
Chlorobenzene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Ethylbenzene	10	12 U	12 U	11 U	13 U	12 U	15 U	3 J
Styrene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Total Xylenes	10	12 U	12 U	11 U	13 U	12 U	15 U	40
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		84	83	88	77	83	66	79
Associated Method Blank:		L0130	L0092	L0130	L0130	L0130	L0130	L0130
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-
Associated Trip Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Volatile Organic Soil Analysis (ug/kg) — 03/03/93

Table 2
Validation / Summary Table

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSPS101X0292XD LAB NUMBER: 1541904 # DATE SAMPLED: 01/12/93 DATE ANALYZED: 01/21/93	GSPS101X0292XX 1541901 # 01/12/93 01/19/93	GSPS102X0192XX 1541909 # 01/12/93 01/21/93	GSPS103X0492XX 1541905 # 01/12/93 01/21/93	GSPS104X0292XX 1541908 # 01/12/93 01/21/93	GSPS105X0292XX 1541907 # 01/12/93 01/21/93	GSPS106X0292XX 1541906 # 01/12/93 01/21/93
Chloromethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Bromomethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Vinyl Chloride	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Chloroethane	10	12 U	12 UJ	11 U	13 U	12 U	15 U	13 U
Methylene Chloride	10	12 U	12 UJ	11 U	13 U	12 U	15 U	13 U
Acetone	10	15 U	13 U	11 U	53 U	12 U	15 U	46 U
Carbon Disulfide	10	12 U	12 UJ	11 U	13 U	12 U	15 U	13 U
1,1-Dichloroethene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1-Dichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,2-Dichloroethene (total)	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Chloroform	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,2-Dichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
2-Butanone	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1,1-Trichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Carbon Tetrachloride	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Bromodichloromethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,2-Dichloropropane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
cis-1,3-Dichloropropene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Trichloroethene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Dibromochloromethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1,2-Trichloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Benzene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
trans-1,3-Dichloropropene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Bromoform	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
4-Methyl-2-Pentanone	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
2-Hexanone	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Tetrachloroethene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
1,1,2,2-Tetrachloroethane	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Toluene	10	12 U	12 U	11 U	13 U	12 U	15 U	1 JJ
Chlorobenzene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Ethylbenzene	10	12 U	12 U	11 U	13 U	12 U	15 U	3 JJ
Styrene	10	12 U	12 U	11 U	13 U	12 U	15 U	13 U
Total Xylenes	10	12 U	12 U	11 U	13 U	12 U	15 U	40 J
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		84	83	88	77	83	66	79
Associated Method Blank:		L0130	L0092	L0130	L0130	L0130	L0130	L0130
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-
Associated Trip Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX	
	LAB NUMBER:	1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #	
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	
	DATE ANALYZED:	01/21/93	01/19/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93	
ANALYTE	SOW-3/90 - II CRQL								
Chloromethane	10	-	-	-	-	-	-	-	
Bromomethane	10	-	-	-	-	-	-	-	
Vinyl Chloride	10	-	-	-	-	-	-	-	
Chloroethane	10	-	-	-	-	-	-	-	
Methylene Chloride	10	-	-	-	-	-	-	-	
Acetone	10	-	-	-	-	-	-	-	
Carbon Disulfide	10	-	-	-	-	-	-	-	
1,1-Dichloroethene	10	-	-	-	-	-	-	-	
1,1-Dichloroethane	10	-	-	-	-	-	-	-	
1,2-Dichloroethene (total)	10	-	-	-	-	-	-	-	
Chloroform	10	-	-	-	-	-	-	-	
1,2-Dichloroethane	10	-	-	-	-	-	-	-	
2-Butanone	10	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	10	-	-	-	-	-	-	-	
Carbon Tetrachloride	10	-	-	-	-	-	-	-	
Bromodichloromethane	10	-	-	-	-	-	-	-	
1,2-Dichloropropane	10	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	10	-	-	-	-	-	-	-	
Trichloroethene	10	-	-	-	-	-	-	-	
Dibromochloromethane	10	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	10	-	-	-	-	-	-	-	
Benzene	10	-	-	-	-	-	-	-	
trans-1,3-Dichloropropene	10	-	-	-	-	-	-	-	
Bromoform	10	-	-	-	-	-	-	-	
4-Methyl-2-Pentanone	10	-	-	-	-	-	-	-	
2-Hexanone	10	-	-	-	-	-	-	-	
Tetrachloroethene	10	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	10	-	-	-	-	-	-	-	
Toluene	10	-	-	-	-	-	-	1	JJ
Chlorobenzene	10	-	-	-	-	-	-	-	
Ethylbenzene	10	-	-	-	-	-	-	3	JJ
Styrene	10	-	-	-	-	-	-	-	
Total Xylenes	10	-	-	-	-	-	-	40	J
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Solids:		84	83	88	77	83	66	79	
Associated Method Blank:		L0130	L0092	L0130	L0130	L0130	L0130	L0130	
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	
Associated Field Blank:		-	-	-	-	-	-	-	
Associated Trip Blank:		-	-	-	-	-	-	-	

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 #	1456503 #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE ANALYZED:	11/05/92	11/05/92	11/05/92
ANALYTE	SOW-3/90 - II CRQL			
Chloromethane	10	12 U	12 U	11 U
Bromomethane	10	12 U	12 U	11 U
Vinyl Chloride	10	12 U	12 U	11 U
Chloroethane	10	12 U	12 U	11 U
Methylene Chloride	10	6 J	7 J	5 J
Acetone	10	12 U	12 U	11 U
Carbon Disulfide	10	12 U	12 U	11 U
1,1-Dichloroethene	10	12 U	12 U	11 U
1,1-Dichloroethane	10	12 U	12 U	11 U
1,2-Dichloroethene (total)	10	12 U	12 U	11 U
Chloroform	10	12 U	12 U	11 U
1,2-Dichloroethane	10	12 U	12 U	11 U
2-Butanone	10	12 U	12 U	11 U
1,1,1-Trichloroethane	10	12 U	12 U	11 U
Carbon Tetrachloride	10	12 U	12 U	11 U
Bromodichloromethane	10	12 U	12 U	11 U
1,2-Dichloropropane	10	12 U	12 U	11 U
cis-1,3-Dichloropropene	10	12 U	12 U	11 U
Trichloroethene	10	12 U	12 U	11 U
Dibromochloromethane	10	12 U	12 U	11 U
1,1,2-Trichloroethane	10	12 U	12 U	11 U
Benzene	10	12 U	12 U	11 U
trans-1,3-Dichloropropene	10	12 U	12 U	11 U
Bromoform	10	12 U	12 U	11 U
4-Methyl-2-Pentanone	10	12 U	12 U	11 U
2-Hexanone	10	12 U	12 U	11 U
Tetrachloroethene	10	12 U	12 U	11 U
1,1,2,2-Tetrachloroethane	10	12 U	12 U	11 U
Toluene	10	12 U	12 U	11 U
Chlorobenzene	10	12 U	12 U	11 U
Ethylbenzene	10	12 U	12 U	11 U
Styrene	10	12 U	12 U	11 U
Total Xylenes	10	12 U	12 U	11 U
Dilution Factor:		1.00	1.00	1.00
Percent Solids:		83	86	88
Associated Method Blank:		E8356	E8356	E8356
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-
Associated Trip Blank:		-	-	-

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 #	1456503 #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE ANALYZED:	11/05/92	11/05/92	11/05/92
ANALYTE	SOW-3/90 - II CRQL			
Chloromethane	10	12 U	12 U	11 U
Bromomethane	10	12 U	12 U	11 U
Vinyl Chloride	10	12 U	12 U	11 U
Chloroethane	10	12 U	12 U	11 U
Methylene Chloride	10	6 JJ	7 JJ	5 JJ
Acetone	10	12 U	12 U	11 U
Carbon Disulfide	10	12 U	12 U	11 U
1,1-Dichloroethene	10	12 U	12 U	11 U
1,1-Dichloroethane	10	12 U	12 U	11 U
1,2-Dichloroethene (total)	10	12 U	12 U	11 U
Chloroform	10	12 U	12 U	11 U
1,2-Dichloroethane	10	12 U	12 U	11 U
2-Butanone	10	12 U	12 U	11 U
1,1,1-Trichloroethane	10	12 U	12 U	11 U
Carbon Tetrachloride	10	12 U	12 U	11 U
Bromodichloromethane	10	12 U	12 U	11 U
1,2-Dichloropropane	10	12 U	12 U	11 U
cis-1,3-Dichloropropene	10	12 U	12 U	11 U
Trichloroethene	10	12 U	12 U	11 U
Dibromochloromethane	10	12 U	12 U	11 U
1,1,2-Trichloroethane	10	12 U	12 U	11 U
Benzene	10	12 U	12 U	11 U
trans-1,3-Dichloropropene	10	12 U	12 U	11 U
Bromoform	10	12 U	12 U	11 U
4-Methyl-2-Pentanone	10	12 U	12 U	11 U
2-Hexanone	10	12 U	12 U	11 U
Tetrachloroethene	10	12 U	12 U	11 U
1,1,2,2-Tetrachloroethane	10	12 U	12 U	11 U
Toluene	10	12 U	12 U	11 U
Chlorobenzene	10	12 U	12 U	11 U
Ethylbenzene	10	12 U	12 U	11 U
Styrene	10	12 U	12 U	11 U
Total Xylenes	10	12 U	12 U	11 U
Dilution Factor:		1.00	1.00	1.00
Percent Solids:		83	86	88
Associated Method Blank:		E8356	E8356	E8356
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-
Associated Trip Blank:		-	-	-

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 #	1456503 #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE ANALYZED:	11/05/92	11/05/92	11/05/92
ANALYTE	SOW-3/90 - II CRQL			
Chloromethane	10	-	-	-
Bromomethane	10	-	-	-
Vinyl Chloride	10	-	-	-
Chloroethane	10	-	-	-
Methylene Chloride	10	6 JJ	7 JJ	5 JJ
Acetone	10	-	-	-
Carbon Disulfide	10	-	-	-
1,1-Dichloroethene	10	-	-	-
1,1-Dichloroethane	10	-	-	-
1,2-Dichloroethene (total)	10	-	-	-
Chloroform	10	-	-	-
1,2-Dichloroethane	10	-	-	-
2-Butanone	10	-	-	-
1,1,1-Trichloroethane	10	-	-	-
Carbon Tetrachloride	10	-	-	-
Bromodichloromethane	10	-	-	-
1,2-Dichloropropane	10	-	-	-
cis-1,3-Dichloropropene	10	-	-	-
Trichloroethene	10	-	-	-
Dibromochloromethane	10	-	-	-
1,1,2-Trichloroethane	10	-	-	-
Benzene	10	-	-	-
trans-1,3-Dichloropropene	10	-	-	-
Bromoform	10	-	-	-
4-Methyl-2-Pentanone	10	-	-	-
2-Hexanone	10	-	-	-
Tetrachloroethene	10	-	-	-
1,1,2,2-Tetrachloroethane	10	-	-	-
Toluene	10	-	-	-
Chlorobenzene	10	-	-	-
Ethylbenzene	10	-	-	-
Styrene	10	-	-	-
Total Xylenes	10	-	-	-
Dilution Factor:		1.00	1.00	1.00
Percent Solids:		83	86	88
Associated Method Blank:		E8356	E8356	E8356
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-
Associated Trip Blank:		-	-	-

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE ANALYZED: 01/21/93

ANALYTE	SOW-3/90 - II CRQL		
Chloromethane	10	11	U
Bromomethane	10	11	U
Vinyl Chloride	10	11	U
Chloroethane	10	11	U
Methylene Chloride	10	4	BJ
Acetone	10	11	U
Carbon Disulfide	10	11	U
1,1-Dichloroethene	10	11	U
1,1-Dichloroethane	10	11	U
1,2-Dichloroethene (total)	10	11	U
Chloroform	10	11	U
1,2-Dichloroethane	10	11	U
2-Butanone	10	11	U
1,1,1-Trichloroethane	10	11	U
Carbon Tetrachloride	10	11	U
Bromodichloromethane	10	11	U
1,2-Dichloropropane	10	11	U
cis-1,3-Dichloropropene	10	11	U
Trichloroethene	10	11	U
Dibromochloromethane	10	11	U
1,1,2-Trichloroethane	10	11	U
Benzene	10	11	U
trans-1,3-Dichloropropene	10	11	U
Bromoform	10	11	U
4-Methyl-2-Pentanone	10	11	U
2-Hexanone	10	11	U
Tetrachloroethene	10	11	U
1,1,2,2-Tetrachloroethane	10	11	U
Toluene	10	11	U
Chlorobenzene	10	11	U
Ethylbenzene	10	11	U
Styrene	10	11	U
Total Xylenes	10	11	U

Dilution Factor: 1.00
Percent Solids: 92

Associated Method Blank: L0130
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -
Associated Trip Blank: -

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE ANALYZED: 01/21/93

ANALYTE	SOW-3/90 - II CRQL		
Chloromethane	10	11	U
Bromomethane	10	11	U
Vinyl Chloride	10	11	U
Chloroethane	10	11	U
Methylene Chloride	10	11	U
Acetone	10	11	U
Carbon Disulfide	10	11	U
1,1-Dichloroethene	10	11	U
1,1-Dichloroethane	10	11	U
1,2-Dichloroethene (total)	10	11	U
Chloroform	10	11	U
1,2-Dichloroethane	10	11	U
2-Butanone	10	11	U
1,1,1-Trichloroethane	10	11	U
Carbon Tetrachloride	10	11	U
Bromodichloromethane	10	11	U
1,2-Dichloropropane	10	11	U
cis-1,3-Dichloropropene	10	11	U
Trichloroethene	10	11	U
Dibromochloromethane	10	11	U
1,1,2-Trichloroethane	10	11	U
Benzene	10	11	U
trans-1,3-Dichloropropene	10	11	U
Bromoform	10	11	U
4-Methyl-2-Pentanone	10	11	U
2-Hexanone	10	11	U
Tetrachloroethene	10	11	U
1,1,2,2-Tetrachloroethane	10	11	U
Toluene	10	11	U
Chlorobenzene	10	11	U
Ethylbenzene	10	11	U
Styrene	10	11	U
Total Xylenes	10	11	U

Dilution Factor: 1.00
Percent Solids: 92

Associated Method Blank: L0130
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -
Associated Trip Blank: -

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE ANALYZED: 01/21/93

ANALYTE	SOW-3/90 - II CRQL	
Chloromethane	10	-
Bromomethane	10	-
Vinyl Chloride	10	-
Chloroethane	10	-
Methylene Chloride	10	-
Acetone	10	-
Carbon Disulfide	10	-
1,1-Dichloroethene	10	-
1,1-Dichloroethane	10	-
1,2-Dichloroethene (total)	10	-
Chloroform	10	-
1,2-Dichloroethane	10	-
2-Butanone	10	-
1,1,1-Trichloroethane	10	-
Carbon Tetrachloride	10	-
Bromodichloromethane	10	-
1,2-Dichloropropane	10	-
cis-1,3-Dichloropropene	10	-
Trichloroethene	10	-
Dibromochloromethane	10	-
1,1,2-Trichloroethane	10	-
Benzene	10	-
trans-1,3-Dichloropropene	10	-
Bromoform	10	-
4-Methyl-2-Pentanone	10	-
2-Hexanone	10	-
Tetrachloroethene	10	-
1,1,2,2-Tetrachloroethane	10	-
Toluene	10	-
Chlorobenzene	10	-
Ethylbenzene	10	-
Styrene	10	-
Total Xylenes	10	-

Dilution Factor: 1.00
Percent Solids: 92

Associated Method Blank: L0130
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -
Associated Trip Blank: -

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSMW001X0992XX	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
	LAB NUMBER:	1544705 #	1544705 R #	1544707 #	1544706 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/02/93	01/02/93	01/02/93	01/02/93
	DATE ANALYZED:	02/01/93	02/02/93	02/01/93	02/01/93
ANALYTE	SOW-3/90 - II CRQL				
Phenol	10	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U
2-Nitroaniline	25	25 U	25 U	25 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSMW001X0992XX	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
	LAB NUMBER:	1544705 #	1544705 R #	1544707 #	1544706 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/02/93	01/02/93	01/02/93	01/02/93
	DATE ANALYZED:	02/01/93	02/02/93	02/01/93	02/01/93
ANALYTE	SOW-3/90 - II CRQL				
3-Nitroaniline	25	25 U	25 U	25 U	25 U
Acenaphthene	10	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25	25 U	25 U	25 U	25 U
4-Nitrophenol	25	25 U	25 U	25 U	25 U
Dibenzofuran	10	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U
Diethylphthalate	10	2 J	2 J	1 J	1 J
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U
4-Nitroaniline	25	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	1 J	25 U	25 U	25 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U
Pentachlorophenol	25	25 U	25 U	25 U	25 U
Phenanthrene	10	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U
Carbazole	10	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	10 U	10 U	10 U	10 U
Benzo(a)Anthracene	10	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	6 J	4 J	2 J	1 J
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U
Benzo(b)Fluoranthene	10	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene	10	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene	10	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U
Dilution Factor:		1.00	1.00	1.00	1.00
Associated Method Blank:		B2079	B2079	B2079	B2079
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

SAMPLE LOCATION:		GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
LAB NUMBER:		1544705 R #	1544707 #	1544706 #
DATE SAMPLED:		01/13/93	01/13/93	01/13/93
DATE EXTRACTED:		01/02/93	01/02/93	01/02/93
DATE ANALYZED:		02/02/93	02/01/93	02/01/93
ANALYTE	SOW-3/90 - II CRQL			
Phenol	10	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U
Hexachlorocyclopentadiene	10	10 UJ	10 UJ	10 UJ
2,4,6-Trichlorophenol	10	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U	10 U
2-Nitroaniline	25	25 U	25 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
	LAB NUMBER:	1544705 R #	1544707 #	1544706 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/02/93	01/02/93	01/02/93
	DATE ANALYZED:	02/02/93	02/01/93	02/01/93

ANALYTE	SOW-3/90 - II CRQL					
3-Nitroaniline	25	25	U	25	U	25 U
Acenaphthene	10	10	U	10	U	10 U
2,4-Dinitrophenol	25	25	U	25	UJ	25 UJ
4-Nitrophenol	25	25	U	25	U	25 U
Dibenzofuran	10	10	U	10	U	10 U
2,4-Dinitrotoluene	10	10	U	10	U	10 U
Diethylphthalate	10	2	JJ	1	JJ	1 JJ
4-Chlorophenyl-phenylether	10	10	U	10	U	10 U
Fluorene	10	10	U	10	U	10 U
4-Nitroaniline	25	25	U	25	U	25 U
4,6-Dinitro-2-methylphenol	25	25	U	25	U	25 U
N-Nitrosodiphenylamine	10	10	U	10	U	10 U
4-Bromophenyl-phenylether	10	10	U	10	U	10 U
Hexachlorobenzene	10	10	U	10	U	10 U
Pentachlorophenol	25	25	U	25	U	25 U
Phenanthrene	10	10	U	10	U	10 U
Anthracene	10	10	U	10	U	10 U
Carbazole	10	10	U	10	U	10 U
Di-n-butylphthalate	10	10	U	10	U	10 U
Fluoranthene	10	10	U	10	U	10 U
Pyrene	10	10	UJ	10	U	10 U
Butylbenzylphthalate	10	10	UJ	10	U	10 U
3,3'-Dichlorobenzidine	10	10	UJ	10	UJ	10 UJ
Benzo(a)Anthracene	10	10	UJ	10	U	10 U
Chrysene	10	10	UJ	10	U	10 U
bis(2-Ethylhexyl)phthalate	10	4	JJ	2	JJ	1 JJ
Di-n-octylphthalate	10	10	U	10	U	10 U
Benzo(b)Fluoranthene	10	10	U	10	U	10 U
Benzo(k)Fluoranthene	10	10	U	10	U	10 U
Benzo(a)Pyrene	10	10	U	10	U	10 U
Indeno(1,2,3-c,d)Pyrene	10	10	U	10	U	10 U
Dibenz(a,h)Anthracene	10	10	U	10	U	10 U
Benzo(g,h,i)perylene	10	10	U	10	U	10 U
Dilution Factor:		1.00		1.00		1.00

Associated Method Blank:	B2079	B2079	B2079
Associated Equipment Blank:	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:	-	-	-

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
	LAB NUMBER:	1544705 R #	1544707 #	1544706 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/02/93	01/02/93	01/02/93
	DATE ANALYZED:	02/02/93	02/01/93	02/01/93
ANALYTE	SOW-3/90 - II CRQL			
Phenol	10	-	-	-
bis(2-Chloroethyl)ether	10	-	-	-
2-Chlorophenol	10	-	-	-
1,3-Dichlorobenzene	10	-	-	-
1,4-Dichlorobenzene	10	-	-	-
1,2-Dichlorobenzene	10	-	-	-
2-Methylphenol	10	-	-	-
2,2'-oxybis(1-Chloropropane)	10	-	-	-
4-Methylphenol	10	-	-	-
N-Nitroso-di-n-propylamine	10	-	-	-
Hexachloroethane	10	-	-	-
Nitrobenzene	10	-	-	-
Isophorone	10	-	-	-
2-Nitrophenol	10	-	-	-
2,4-Dimethylphenol	10	-	-	-
bis(2-Chloroethoxy)methane	10	-	-	-
2,4-Dichlorophenol	10	-	-	-
1,2,4-Trichlorobenzene	10	-	-	-
Naphthalene	10	-	-	-
4-Chloroaniline	10	-	-	-
Hexachlorobutadiene	10	-	-	-
4-Chloro-3-Methylphenol	10	-	-	-
2-Methylnaphthalene	10	-	-	-
Hexachlorocyclopentadiene	10	-	-	-
2,4,6-Trichlorophenol	10	-	-	-
2,4,5-Trichlorophenol	25	-	-	-
2-Chloronaphthalene	10	-	-	-
2-Nitroaniline	25	-	-	-
Dimethylphthalate	10	-	-	-
Acenaphthylene	10	-	-	-
2,6-Dinitrotoluene	10	-	-	-

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

SAMPLE LOCATION:	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
LAB NUMBER:	1544705 R #	1544707 #	1544706 #
DATE SAMPLED:	01/13/93	01/13/93	01/13/93
DATE EXTRACTED:	01/02/93	01/02/93	01/02/93
DATE ANALYZED:	02/02/93	02/01/93	02/01/93

ANALYTE	SOW-3/90 - II CRQL					
3-Nitroaniline	25	-		-		-	
Acenaphthene	10	-		-		-	
2,4-Dinitrophenol	25	-		-		-	
4-Nitrophenol	25	-		-		-	
Dibenzofuran	10	-		-		-	
2,4-Dinitrotoluene	10	-		-		-	
Diethylphthalate	10	2	JJ	1	JJ	1	JJ
4-Chlorophenyl-phenylether	10	-		-		-	
Fluorene	10	-		-		-	
4-Nitroaniline	25	-		-		-	
4,6-Dinitro-2-methylphenol	25	-		-		-	
N-Nitrosodiphenylamine	10	-		-		-	
4-Bromophenyl-phenylether	10	-		-		-	
Hexachlorobenzene	10	-		-		-	
Pentachlorophenol	25	-		-		-	
Phenanthrene	10	-		-		-	
Anthracene	10	-		-		-	
Carbazole	10	-		-		-	
Di-n-butylphthalate	10	-		-		-	
Fluoranthene	10	-		-		-	
Pyrene	10	-		-		-	
Butylbenzylphthalate	10	-		-		-	
3,3'-Dichlorobenzidine	10	-		-		-	
Benzo(a)Anthracene	10	-		-		-	
Chrysene	10	-		-		-	
bis(2-Ethylhexyl)phthalate	10	4	JJ	2	JJ	1	JJ
Di-n-octylphthalate	10	-		-		-	
Benzo(b)Fluoranthene	10	-		-		-	
Benzo(k)Fluoranthene	10	-		-		-	
Benzo(a)Pyrene	10	-		-		-	
Indeno(1,2,3-c,d)Pyrene	10	-		-		-	
Dibenz(a,h)Anthracene	10	-		-		-	
Benzo(g,h,i)perylene	10	-		-		-	
Dilution Factor:		1.00		1.00		1.00	
Associated Method Blank:		B2079		B2079		B2079	
Associated Equipment Blank:		GSQS003XXX92XX		GSQS003XXX92XX		GSQS003XXX92XX	
Associated Field Blank:		-		-		-	

Site: MONITORING WELL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
DATE EXTRACTED:	01/02/93	01/22/93	01/22/93	01/22/93	01/22/93	01/22/93
DATE ANALYZED:	02/02/93	02/02/93	02/01/93	02/02/93	02/02/93	02/02/93

ANALYTE	SOW-3/90 - II CRQL						
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	5 J	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
	LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/02/93	01/22/93	01/22/93	01/22/93	01/22/93	01/22/93
	DATE ANALYZED:	02/02/93	02/02/93	02/01/93	02/02/93	02/02/93	02/02/93
ANALYTE	SOW-3/90 - II CRQL						
3-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	3 J	10 U	10 U	3 J	1 J	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	10 U	10 U	1 J	1 J	1 J	1 J
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Associated Method Blank:		B2079	B2079	B2079	B2079	B2079	B2079
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-	-	-

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
		LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
		DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
		DATE EXTRACTED:	01/02/93	01/22/93	01/22/93	01/22/93	01/22/93	01/22/93
		DATE ANALYZED:	02/02/93	02/02/93	02/01/93	02/02/93	02/02/93	02/02/93
Phenol	10		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10		10 U	5 JJ	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2,4,6-Trichlorophenol	10		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25		25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10		10 U	10 U	10 U	10 U	10 U	10 U

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
	LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/02/93	01/22/93	01/22/93	01/22/93	01/22/93	01/22/93
	DATE ANALYZED:	02/02/93	02/02/93	02/01/93	02/02/93	02/02/93	02/02/93
ANALYTE	SOW-3/90 - II CRQL						
3-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25	25 U	25 U	25 UJ	25 U	25 UJ	25 U
4-Nitrophenol	25	25 U	25 U	25 U	25 U	25 UJ	25 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	3 JJ	10 U	10 U	3 JJ	1 JJ	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	25 U	25 U	25 U	25 U	25 UJ	25 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	25 U	25 U	25 U	25 U	25 UJ	25 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	10 U	10 U	1 JJ	1 JJ	1 JJ	1 JJ
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzo(b)Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Associated Method Blank:		B2079	B2079	B2079	B2079	B2079	B2079
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-	-	-

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
	LAB NUMBER:	1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/02/93	01/22/93	01/22/93	01/22/93	01/22/93	01/22/93
	DATE ANALYZED:	02/02/93	02/02/93	02/01/93	02/02/93	02/02/93	02/02/93
ANALYTE	SOW-3/90 - II CRQL						
Phenol	10	-	-	-	-	-	-
bis(2-Chloroethyl)ether	10	-	-	-	-	-	-
2-Chlorophenol	10	-	-	-	-	-	-
1,3-Dichlorobenzene	10	-	-	-	-	-	-
1,4-Dichlorobenzene	10	-	-	-	-	-	-
1,2-Dichlorobenzene	10	-	-	-	-	-	-
2-Methylphenol	10	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	10	-	-	-	-	-	-
4-Methylphenol	10	-	5 JJ	-	-	-	-
N-Nitroso-di-n-propylamine	10	-	-	-	-	-	-
Hexachloroethane	10	-	-	-	-	-	-
Nitrobenzene	10	-	-	-	-	-	-
Isophorone	10	-	-	-	-	-	-
2-Nitrophenol	10	-	-	-	-	-	-
2,4-Dimethylphenol	10	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	10	-	-	-	-	-	-
2,4-Dichlorophenol	10	-	-	-	-	-	-
1,2,4-Trichlorobenzene	10	-	-	-	-	-	-
Naphthalene	10	-	-	-	-	-	-
4-Chloroaniline	10	-	-	-	-	-	-
Hexachlorobutadiene	10	-	-	-	-	-	-
4-Chloro-3-Methylphenol	10	-	-	-	-	-	-
2-Methylnaphthalene	10	-	-	-	-	-	-
Hexachlorocyclopentadiene	10	-	-	-	-	-	-
2,4,6-Trichlorophenol	10	-	-	-	-	-	-
2,4,5-Trichlorophenol	25	-	-	-	-	-	-
2-Chloronaphthalene	10	-	-	-	-	-	-
2-Nitroaniline	25	-	-	-	-	-	-
Dimethylphthalate	10	-	-	-	-	-	-
Acenaphthylene	10	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
		LAB NUMBER: 1544704 #	1544701 #	1544709 #	1544710 #	1544711 #	1544712 #
		DATE SAMPLED: 01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
		DATE EXTRACTED: 01/02/93	01/22/93	01/22/93	01/22/93	01/22/93	01/22/93
		DATE ANALYZED: 02/02/93	02/02/93	02/01/93	02/02/93	02/02/93	02/02/93
3-Nitroaniline	25	-	-	-	-	-	-
Acenaphthene	10	-	-	-	-	-	-
2,4-Dinitrophenol	25	-	-	-	-	-	-
4-Nitrophenol	25	-	-	-	-	-	-
Dibenzofuran	10	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-
Diethylphthalate	10	3 JJ	-	-	3 JJ	1 JJ	-
4-Chlorophenyl-phenylether	10	-	-	-	-	-	-
Fluorene	10	-	-	-	-	-	-
4-Nitroaniline	25	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	25	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-
4-Bromophenyl-phenylether	10	-	-	-	-	-	-
Hexachlorobenzene	10	-	-	-	-	-	-
Pentachlorophenol	25	-	-	-	-	-	-
Phenanthrene	10	-	-	-	-	-	-
Anthracene	10	-	-	-	-	-	-
Carbazole	10	-	-	-	-	-	-
Di-n-butylphthalate	10	-	-	-	-	-	-
Fluoranthene	10	-	-	-	-	-	-
Pyrene	10	-	-	-	-	-	-
Butylbenzylphthalate	10	-	-	-	-	-	-
3,3'-Dichlorobenzidine	10	-	-	-	-	-	-
Benzo(a)Anthracene	10	-	-	-	-	-	-
Chrysene	10	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	10	-	-	1 JJ	1 JJ	1 JJ	1 JJ
Di-n-octylphthalate	10	-	-	-	-	-	-
Benzo(b)Fluoranthene	10	-	-	-	-	-	-
Benzo(k)Fluoranthene	10	-	-	-	-	-	-
Benzo(a)Pyrene	10	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	10	-	-	-	-	-	-
Dibenz(a,h)Anthracene	10	-	-	-	-	-	-
Benzo(g,h,i)perylene	10	-	-	-	-	-	-
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Associated Method Blank:		B2079	B2079	B2079	B2079	B2079	B2079
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-	-	-

Site: SURFACE WATER
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSQS001XXX92XX	GSQS003XXX92XX
LAB NUMBER:	1541911	1544708
DATE SAMPLED:	01/12/93	01/13/93
DATE EXTRACTED:	01/19/93	01/22/93
DATE ANALYZED:	02/01/93	02/02/93

ANALYTE	SOW-3/90 - II CRQL		
Phenol	10	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U
2-Chlorophenol	10	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U
2-Methylphenol	10	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10	10 U	10 U
4-Methylphenol	10	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U
Hexachloroethane	10	10 U	10 U
Nitrobenzene	10	10 U	10 U
Isophorone	10	10 U	10 U
2-Nitrophenol	10	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U
Naphthalene	10	10 U	10 U
4-Chloroaniline	10	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U
4-Chloro-3-Methylphenol	10	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U
2-Nitroaniline	25	25 U	25 U
Dimethylphthalate	10	10 U	10 U
Acenaphthylene	10	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U

Site: EQUIPMENT RINSATE
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable
J: Estimated B: Blank contamination D: Diluted result -: Not detected

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSQS001XXX92XX	GSQS003XXX92XX
LAB NUMBER:	1541911	1544708
DATE SAMPLED:	01/12/93	01/13/93
DATE EXTRACTED:	01/19/93	01/22/93
DATE ANALYZED:	02/01/93	02/02/93

ANALYTE	SOW-3/90 - II CRQL				
3-Nitroaniline	25	25	U	25	U
Acenaphthene	10	10	U	10	U
2,4-Dinitrophenol	25	25	U	25	U
4-Nitrophenol	25	25	U	25	U
Dibenzofuran	10	10	U	10	U
2,4-Dinitrotoluene	10	10	U	10	U
Diethylphthalate	10	3	J	10	U
4-Chlorophenyl-phenylether	10	10	U	10	U
Fluorene	10	10	U	10	U
4-Nitroaniline	25	25	U	25	U
4,6-Dinitro-2-methylphenol	25	25	U	25	U
N-Nitrosodiphenylamine	10	10	U	10	U
4-Bromophenyl-phenylether	10	10	U	10	U
Hexachlorobenzene	10	10	U	10	U
Pentachlorophenol	25	25	U	25	U
Phenanthrene	10	10	U	10	U
Anthracene	10	10	U	10	U
Carbazole	10	10	U	10	U
Di-n-butylphthalate	10	10	U	10	U
Fluoranthene	10	10	U	10	U
Pyrene	10	10	U	10	U
Butylbenzylphthalate	10	10	U	10	U
3,3'-Dichlorobenzidine	10	10	U	10	U
Benzo(a)Anthracene	10	10	U	10	U
Chrysene	10	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	4	BJ	10	U
Di-n-octylphthalate	10	10	U	10	U
Benzo(b)Fluoranthene	10	10	U	10	U
Benzo(k)Fluoranthene	10	10	U	10	U
Benzo(a)Pyrene	10	10	U	10	U
Indeno(1,2,3-c,d)Pyrene	10	10	U	10	U
Dibenz(a,h)Anthracene	10	10	U	10	U
Benzo(g,h,i)perylene	10	10	U	10	U
Dilution Factor:		1.00		1.00	
Associated Method Blank:		H9954		B2079	
Associated Equipment Blank:		-		-	
Associated Field Blank:		-		-	

Site: EQUIPMENT RINSATE
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable
J: Estimated B: Blank contamination D: Diluted result -: Not detected

PROJECT:- NYSDEC PSA-6 Guterl Specialty Steel

Semivolatile Organic Soil Analysis (ug/kg)

03/03/93

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
	LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93
	DATE ANALYZED:	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93
ANALYTE	SOW-3/90 - II CRQL						
Phenol	330	520 U	590 U	470 U	550 U	530 U	490 U
bis(2-Chloroethyl)ether	330	520 U	590 U	470 U	550 U	530 U	490 U
2-Chlorophenol	330	520 U	590 U	470 U	550 U	530 U	490 U
1,3-Dichlorobenzene	330	520 U	590 U	470 U	550 U	530 U	490 U
1,4-Dichlorobenzene	330	520 U	590 U	470 U	550 U	530 U	490 U
1,2-Dichlorobenzene	330	520 U	590 U	470 U	550 U	530 U	490 U
2-Methylphenol	330	520 U	590 U	470 U	550 U	530 U	490 U
2,2'-oxybis(1-Chloropropane)	330	520 U	590 U	470 U	550 U	530 U	490 U
4-Methylphenol	330	520 U	590 U	470 U	550 U	530 U	490 U
N-Nitroso-di-n-propylamine	330	520 U	590 U	470 U	550 U	530 U	490 U
Hexachloroethane	330	520 U	590 U	470 U	550 U	530 U	490 U
Nitrobenzene	330	520 U	590 U	470 U	550 U	530 U	490 U
Isophorone	330	520 U	590 U	470 U	550 U	530 U	490 U
2-Nitrophenol	330	520 U	590 U	470 U	550 U	530 U	490 U
2,4-Dimethylphenol	330	520 U	590 U	470 U	550 U	530 U	490 U
bis(2-Chloroethoxy)methane	330	520 U	590 U	470 U	550 U	530 U	490 U
2,4-Dichlorophenol	330	520 U	590 U	470 U	550 U	530 U	490 U
1,2,4-Trichlorobenzene	330	520 U	590 U	470 U	550 U	530 U	490 U
Naphthalene	330	520 U	590 U	470 U	150 J	530 U	490 U
4-Chloroaniline	330	520 U	590 U	470 U	550 U	530 U	490 U
Hexachlorobutadiene	330	520 U	590 U	470 U	550 U	530 U	490 U
4-Chloro-3-Methylphenol	330	520 U	590 U	470 U	550 U	530 U	490 U
2-Methylnaphthalene	330	520 U	590 U	470 U	74 J	530 U	7 J
Hexachlorocyclopentadiene	330	520 U	590 U	470 U	550 U	530 U	490 U
2,4,6-Trichlorophenol	330	520 U	590 U	470 U	550 U	530 U	490 U
2,4,5-Trichlorophenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
2-Chloronaphthalene	330	520 U	590 U	470 U	550 U	530 U	490 U
2-Nitroaniline	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
Dimethylphthalate	330	520 U	590 U	470 U	550 U	530 U	490 U
Acenaphthylene	330	520 U	590 U	470 U	550 U	530 U	490 U
2,6-Dinitrotoluene	330	520 U	590 U	470 U	550 U	530 U	490 U

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Semivolatile Organic Soil Analysis (ug/kg) — 03/03/93

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
	LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93
	DATE ANALYZED:	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93
ANALYTE	SOW-3/90 - II CRQL						
3-Nitroaniline	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
Acenaphthene	330	520 U	590 U	470 U	48 J	530 U	490 U
2,4-Dinitrophenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
4-Nitrophenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
Dibenzofuran	330	520 U	590 U	470 U	38 J	530 U	490 U
2,4-Dinitrotoluene	330	520 U	590 U	470 U	550 U	530 U	490 U
Diethylphthalate	330	29 J	31 J	470 U	18 J	530 U	14 J
4-Chlorophenyl-phenylether	330	520 U	590 U	470 U	550 U	530 U	490 U
Fluorene	330	520 U	590 U	470 U	26 J	530 U	490 U
4-Nitroaniline	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
4,6-Dinitro-2-methylphenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
N-Nitrosodiphenylamine	330	520 U	590 U	470 U	550 U	530 U	490 U
4-Bromophenyl-phenylether	330	520 U	590 U	470 U	550 U	530 U	490 U
Hexachlorobenzene	330	520 U	590 U	470 U	550 U	530 U	490 U
Pentachlorophenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
Phenanthrene	330	520 U	18 J	470 U	190 J	530 U	45 J
Anthracene	330	520 U	590 U	470 U	10 J	530 U	490 U
Carbazole	330	520 U	590 U	470 U	550 U	530 U	490 U
Di-n-butylphthalate	330	520 U	36 J	470 U	360 J	200 J	140 J
Fluoranthene	330	520 U	22 J	470 U	140 J	530 U	65 J
Pyrene	330	520 U	15 J	470 U	150 J	530 U	52 J
Butylbenzylphthalate	330	520 U	590 U	470 U	550 U	530 U	490 U
3,3'-Dichlorobenzidine	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(a)Anthracene	330	520 U	590 U	470 U	550 U	530 U	490 U
Chrysene	330	520 U	590 U	470 U	550 U	530 U	490 U
bis(2-Ethylhexyl)phthalate	330	82 J	190 J	67 J	550 U	51 J	490 U
Di-n-octylphthalate	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(b)Fluoranthene	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(k)Fluoranthene	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(a)Pyrene	330	520 U	590 U	470 U	550 U	530 U	490 U
Indeno(1,2,3-c,d)Pyrene	330	520 U	590 U	470 U	550 U	530 U	490 U
Dibenz(a,h)Anthracene	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(g,h,i)perylene	330	520 U	590 U	470 U	550 U	530 U	490 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		63	56	70	60	62	68
Associated Method Blank:		HO253	HO253	HO253	HO253	HO253	HO253
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Semivolatile Organic Soil Analysis (ug/kg) — 03/03/93

Table 2
Validation / Summary Table

SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
DATE EXTRACTED:	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93
DATE ANALYZED:	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93

ANALYTE	SOW-3/90 - II CRQL											
Phenol	330	520	U	590	U	470	U	550	U	530	U	490	U
bis(2-Chloroethyl)ether	330	520	U	590	U	470	U	550	U	530	U	490	U
2-Chlorophenol	330	520	U	590	U	470	U	550	U	530	U	490	U
1,3-Dichlorobenzene	330	520	U	590	U	470	U	550	U	530	U	490	U
1,4-Dichlorobenzene	330	520	U	590	U	470	U	550	U	530	U	490	U
1,2-Dichlorobenzene	330	520	U	590	U	470	U	550	U	530	U	490	U
2-Methylphenol	330	520	U	590	U	470	U	550	U	530	U	490	U
2,2'-oxybis(1-Chloropropane)	330	520	U	590	U	470	U	550	U	530	U	490	U
4-Methylphenol	330	520	U	590	U	470	U	550	U	530	U	490	U
N-Nitroso-di-n-propylamine	330	520	U	590	U	470	U	550	U	530	U	490	U
Hexachloroethane	330	520	U	590	U	470	U	550	U	530	U	490	U
Nitrobenzene	330	520	U	590	U	470	U	550	U	530	U	490	U
Isophorone	330	520	U	590	U	470	U	550	U	530	U	490	U
2-Nitrophenol	330	520	U	590	U	470	U	550	U	530	U	490	U
2,4-Dimethylphenol	330	520	U	590	U	470	U	550	U	530	U	490	U
bis(2-Chloroethoxy)methane	330	520	U	590	U	470	U	550	U	530	U	490	U
2,4-Dichlorophenol	330	520	U	590	U	470	U	550	U	530	U	490	U
1,2,4-Trichlorobenzene	330	520	U	590	U	470	U	550	U	530	U	490	U
Naphthalene	330	520	U	590	U	470	U	150	JJ	530	U	490	U
4-Chloroaniline	330	520	U	590	U	470	U	550	U	530	U	490	U
Hexachlorobutadiene	330	520	U	590	U	470	U	550	U	530	U	490	U
4-Chloro-3-Methylphenol	330	520	U	590	U	470	U	550	U	530	U	490	U
2-Methylnaphthalene	330	520	U	590	U	470	U	74	JJ	530	U	7	JJ
Hexachlorocyclopentadiene	330	520	UJ	590	UJ	470	UJ	550	UJ	530	UJ	490	UJ
2,4,6-Trichlorophenol	330	520	U	590	U	470	U	550	U	530	U	490	U
2,4,5-Trichlorophenol	800	1300	U	1400	U	1100	U	1300	U	1300	U	1200	U
2-Chloronaphthalene	330	520	U	590	U	470	U	550	U	530	U	490	U
2-Nitroaniline	800	1300	U	1400	U	1100	U	1300	U	1300	U	1200	U
Dimethylphthalate	330	520	U	590	U	470	U	550	U	530	U	490	U
Acenaphthylene	330	520	U	590	U	470	U	550	U	530	U	490	U
2,6-Dinitrotoluene	330	520	U	590	U	470	U	550	U	530	U	490	U

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
	LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93
	DATE ANALYZED:	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93
ANALYTE	SOW-3/90 - II CRQL						
3-Nitroaniline	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
Acenaphthene	330	520 U	590 U	470 U	48 JJ	530 U	490 U
2,4-Dinitrophenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
4-Nitrophenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
Dibenzofuran	330	520 U	590 U	470 U	38 JJ	530 U	490 U
2,4-Dinitrotoluene	330	520 U	590 U	470 U	550 U	530 U	490 U
Diethylphthalate	330	520 U	590 U	470 U	550 U	530 U	490 U
4-Chlorophenyl-phenylether	330	520 U	590 U	470 U	550 U	530 U	490 U
Fluorene	330	520 U	590 U	470 U	26 JJ	530 U	490 U
4-Nitroaniline	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
4,6-Dinitro-2-methylphenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
N-Nitrosodiphenylamine	330	520 U	590 U	470 U	550 U	530 U	490 U
4-Bromophenyl-phenylether	330	520 U	590 U	470 U	550 U	530 U	490 U
Hexachlorobenzene	330	520 U	590 U	470 U	550 U	530 U	490 U
Pentachlorophenol	800	1300 U	1400 U	1100 U	1300 U	1300 U	1200 U
Phenanthrene	330	520 U	18 JJ	470 U	190 JJ	530 U	45 JJ
Anthracene	330	520 U	590 U	470 U	10 JJ	530 U	490 U
Carbazole	330	520 U	590 U	470 U	550 U	530 U	490 U
Di-n-butylphthalate	330	520 U	36 JJ	470 U	360 JJ	200 JJ	140 JJ
Fluoranthene	330	520 U	22 JJ	470 U	140 JJ	530 U	65 JJ
Pyrene	330	520 U	15 JJ	470 U	150 JJ	530 U	52 JJ
Butylbenzylphthalate	330	520 U	590 U	470 U	550 U	530 U	490 U
3,3'-Dichlorobenzidine	330	520 UJ	590 UJ	470 UJ	550 UJ	530 UJ	490 UJ
Benzo(a)Anthracene	330	520 UJ	590 UJ	470 UJ	550 UJ	530 UJ	490 UJ
Chrysene	330	520 U	590 U	470 U	550 U	530 U	490 U
bis(2-Ethylhexyl)phthalate	330	520 U	590 U	470 U	550 U	530 U	490 U
Di-n-octylphthalate	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(b)Fluoranthene	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(k)Fluoranthene	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(a)Pyrene	330	520 U	590 U	470 U	550 U	530 U	490 U
Indeno(1,2,3-c,d)Pyrene	330	520 U	590 U	470 U	550 U	530 U	490 U
Dibenz(a,h)Anthracene	330	520 U	590 U	470 U	550 U	530 U	490 U
Benzo(g,h,i)perylene	330	520 U	590 U	470 U	550 U	530 U	490 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		63	56	70	60	62	68
Associated Method Blank:		HO253	HO253	HO253	HO253	HO253	HO253
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Semivolatile Organic Soil Analysis (ug/kg) | 03/03/93

Table 3
Summary Table

	SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
	LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
	DATE EXTRACTED:	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93
	DATE ANALYZED:	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93
ANALYTE	SOW-3/90 - II CRQL						
Phenol	330	-	-	-	-	-	-
bis(2-Chloroethyl)ether	330	-	-	-	-	-	-
2-Chlorophenol	330	-	-	-	-	-	-
1,3-Dichlorobenzene	330	-	-	-	-	-	-
1,4-Dichlorobenzene	330	-	-	-	-	-	-
1,2-Dichlorobenzene	330	-	-	-	-	-	-
2-Methylphenol	330	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	330	-	-	-	-	-	-
4-Methylphenol	330	-	-	-	-	-	-
N-Nitroso-di-n-propylamine	330	-	-	-	-	-	-
Hexachloroethane	330	-	-	-	-	-	-
Nitrobenzene	330	-	-	-	-	-	-
Isophorone	330	-	-	-	-	-	-
2-Nitrophenol	330	-	-	-	-	-	-
2,4-Dimethylphenol	330	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	330	-	-	-	-	-	-
2,4-Dichlorophenol	330	-	-	-	-	-	-
1,2,4-Trichlorobenzene	330	-	-	-	-	-	-
Naphthalene	330	-	-	-	150 JJ	-	-
4-Chloroaniline	330	-	-	-	-	-	-
Hexachlorobutadiene	330	-	-	-	-	-	-
4-Chloro-3-Methylphenol	330	-	-	-	-	-	-
2-Methylnaphthalene	330	-	-	-	74 JJ	-	7 JJ
Hexachlorocyclopentadiene	330	-	-	-	-	-	-
2,4,6-Trichlorophenol	330	-	-	-	-	-	-
2,4,5-Trichlorophenol	800	-	-	-	-	-	-
2-Chloronaphthalene	330	-	-	-	-	-	-
2-Nitroaniline	800	-	-	-	-	-	-
Dimethylphthalate	330	-	-	-	-	-	-
Acenaphthylene	330	-	-	-	-	-	-
2,6-Dinitrotoluene	330	-	-	-	-	-	-

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

SAMPLE LOCATION:	GSSD002XXX92XD	GSSD002XXX92XX	GSSD003XXX92XX	GSSD004XXX92XX	GSSD005XXX92XX	GSSD006XXX92XX
LAB NUMBER:	1544715 #	1544713 #	1544714 #	1544716 #	1544718 #	1544717 #
DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
DATE EXTRACTED:	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93	01/21/93
DATE ANALYZED:	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93	02/17/93

ANALYTE	SOW-3/90 - II CRQL						
3-Nitroaniline	800	-	-	-	-	-	-
Acenaphthene	330	-	-	-	48 JJ	-	-
2,4-Dinitrophenol	800	-	-	-	-	-	-
4-Nitrophenol	800	-	-	-	-	-	-
Dibenzofuran	330	-	-	-	38 JJ	-	-
2,4-Dinitrotoluene	330	-	-	-	-	-	-
Diethylphthalate	330	-	-	-	-	-	-
4-Chlorophenyl-phenylether	330	-	-	-	-	-	-
Fluorene	330	-	-	-	26 JJ	-	-
4-Nitroaniline	800	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	800	-	-	-	-	-	-
N-Nitrosodiphenylamine	330	-	-	-	-	-	-
4-Bromophenyl-phenylether	330	-	-	-	-	-	-
Hexachlorobenzene	330	-	-	-	-	-	-
Pentachlorophenol	800	-	-	-	-	-	-
Phenanthrene	330	-	18 JJ	-	190 JJ	-	45 JJ
Anthracene	330	-	-	-	10 JJ	-	-
Carbazole	330	-	-	-	-	-	-
Di-n-butylphthalate	330	-	36 JJ	-	360 JJ	200 JJ	140 JJ
Fluoranthene	330	-	22 JJ	-	140 JJ	-	65 JJ
Pyrene	330	-	15 JJ	-	150 JJ	-	52 JJ
Butylbenzylphthalate	330	-	-	-	-	-	-
3,3'-Dichlorobenzidine	330	-	-	-	-	-	-
Benzo(a)Anthracene	330	-	-	-	-	-	-
Chrysene	330	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	330	-	-	-	-	-	-
Di-n-octylphthalate	330	-	-	-	-	-	-
Benzo(b)Fluoranthene	330	-	-	-	-	-	-
Benzo(k)Fluoranthene	330	-	-	-	-	-	-
Benzo(a)Pyrene	330	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	330	-	-	-	-	-	-
Dibenz(a,h)Anthracene	330	-	-	-	-	-	-
Benzo(g,h,i)perylene	330	-	-	-	-	-	-
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		63	56	70	60	62	68
Associated Method Blank:		H0253	H0253	H0253	H0253	H0253	H0253
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-

Site: SEDIMENT
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
	LAB NUMBER:	1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
	DATE EXTRACTED:	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
	DATE ANALYZED:	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93
ANALYTE	SOW-3/90 - II CRQL							
Phenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
bis(2-Chloroethyl)ether	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2-Chlorophenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
1,3-Dichlorobenzene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
1,4-Dichlorobenzene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
1,2-Dichlorobenzene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2-Methylphenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2,2'-oxybis(1-Chloropropane)	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
4-Methylphenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
N-Nitroso-di-n-propylamine	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Hexachloroethane	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Nitrobenzene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Isophorone	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2-Nitrophenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2,4-Dimethylphenol	330	790 U	790 U	370 U	31 J	400 U	500 U	60 J
bis(2-Chloroethoxy)methane	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2,4-Dichlorophenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
1,2,4-Trichlorobenzene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Naphthalene	330	75 J	790 U	18 J	140 J	30 J	500 U	120 J
4-Chloroaniline	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Hexachlorobutadiene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
4-Chloro-3-Methylphenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2-Methylnaphthalene	330	47 J	30 J	18 J	180 J	36 J	74 J	230 J
Hexachlorocyclopentadiene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2,4,6-Trichlorophenol	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2,4,5-Trichlorophenol	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
2-Chloronaphthalene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2-Nitroaniline	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
Dimethylphthalate	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Acenaphthylene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
2,6-Dinitrotoluene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
	LAB NUMBER:	1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
	DATE EXTRACTED:	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
	DATE ANALYZED:	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93
ANALYTE	SOW-3/90 - II CRQL							
3-Nitroaniline	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
Acenaphthene	330	83 J	790 U	41 J	95 J	22 J	52 J	110 J
2,4-Dinitrophenol	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
4-Nitrophenol	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
Dibenzofuran	330	18 J	14 J	18 J	65 J	20 J	59 J	68 J
2,4-Dinitrotoluene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Diethylphthalate	330	790 U	16 J	370 U	31 J	400 U	500 U	840 U
4-Chlorophenyl-phenylether	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Fluorene	330	22 J	23 J	48 J	68 J	400 U	39 J	90 J
4-Nitroaniline	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
4,6-Dinitro-2-methylphenol	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
N-Nitrosodiphenylamine	330	240 J	750 J	370 U	83 J	400 U	500 U	100 J
4-Bromophenyl-phenylether	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Hexachlorobenzene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Pentachlorophenol	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
Phenanthrene	330	230 J	220 J	270 J	390 J	130 J	240 J	490 J
Anthracene	330	37 J	24 J	34 J	33 J	16 J	11 J	55 J
Carbazole	330	19 J	26 J	370 U	430 U	400 U	10 J	840 U
Di-n-butylphthalate	330	790 U	790 U	79 J	27 J	15 J	17 J	840 U
Fluoranthene	330	170 J	230 J	330 J	110 J	120 J	110 J	160 J
Pyrene	330	400 J	470 J	410	130 J	140 J	84 J	220 J
Butylbenzylphthalate	330	790 U	790 U	370 U	430 U	400 U	500 U	35 J
3,3'-Dichlorobenzidine	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Benzo(a)Anthracene	330	190 J	150 J	35 J	68 J	52 J	500 U	63 J
Chrysene	330	440 J	390 J	52 J	210 J	130 J	500 U	260 J
bis(2-Ethylhexyl)phthalate	330	230 BJ	160 BJ	120 BJ	67 BJ	62 BJ	77 BJ	190 BJ
Di-n-octylphthalate	330	62 J	790 U	7 J	9 J	10 J	12 J	69 J
Benzo(b)Fluoranthene	330	180 J	62 J	370 U	120 J	95 J	500 U	130 J
Benzo(k)Fluoranthene	330	110 J	150 J	370 U	88 J	57 J	500 U	110 J
Benzo(a)Pyrene	330	71 J	110 J	370 U	24 J	25 J	500 U	840 U
Indeno(1,2,3-c,d)Pyrene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Dibenz(a,h)Anthracene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Benzo(g,h,i)perylene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Dilution Factor:		2.00	2.00	1.00	1.00	1.00	1.00	2.00
Percent Solids:		84	84	88	77	83	66	79
Associated Method Blank:		HO224	HO224	HO224	HO224	HO224	HO224	HO224
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
LAB NUMBER:	1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
DATE EXTRACTED:	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
DATE ANALYZED:	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93

ANALYTE	SOW-3/90 - II CRQL													
Phenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
bis(2-Chloroethyl)ether	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
2-Chlorophenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
1,3-Dichlorobenzene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
1,4-Dichlorobenzene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
1,2-Dichlorobenzene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
2-Methylphenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
2,2'-oxybis(1-Chloropropane)	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
4-Methylphenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
N-Nitroso-di-n-propylamine	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
Hexachloroethane	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
Nitrobenzene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
Isophorone	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
2-Nitrophenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
2,4-Dimethylphenol	330	790	UR	790	UR	370	U	31	JJ	400	UR	500	U	60	JJ
bis(2-Chloroethoxy)methane	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
2,4-Dichlorophenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
1,2,4-Trichlorobenzene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
Naphthalene	330	75	JJ	790	U	18	JJ	140	JJ	30	JJ	500	U	120	JJ
4-Chloroaniline	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
Hexachlorobutadiene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
4-Chloro-3-Methylphenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
2-Methylnaphthalene	330	47	JJ	30	JJ	18	JJ	180	JJ	36	JJ	74	JJ	230	JJ
Hexachlorocyclopentadiene	330	790	UJ	790	UJ	370	UJ	430	UJ	400	UJ	500	UJ	840	UJ
2,4,6-Trichlorophenol	330	790	UR	790	UR	370	U	430	UR	400	UR	500	U	840	UR
2,4,5-Trichlorophenol	800	1900	UR	1900	UR	910	U	1000	UR	960	UR	1200	U	2000	UR
2-Chloronaphthalene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
2-Nitroaniline	800	1900	U	1900	U	910	U	1000	U	960	U	1200	U	2000	U
Dimethylphthalate	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
Acenaphthylene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U
2,6-Dinitrotoluene	330	790	U	790	U	370	U	430	U	400	U	500	U	840	U

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
	LAB NUMBER:	1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
	DATE EXTRACTED:	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
	DATE ANALYZED:	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93
ANALYTE	SOW-3/90 - II CRQL							
3-Nitroaniline	800	1900 UJ	1900 UJ	910 UJ	1000 UJ	960 UJ	1200 UJ	2000 UJ
Acenaphthene	330	83 JJ	790 U	41 JJ	95 JJ	22 JJ	52 JJ	110 JJ
2,4-Dinitrophenol	800	1900 UR	1900 UR	910 UJ	1000 UR	960 UR	1200 UJ	2000 UR
4-Nitrophenol	800	1900 UR	1900 UR	910 U	1000 UR	960 UR	1200 U	2000 UR
Dibenzofuran	330	18 JJ	14 JJ	18 JJ	65 JJ	20 JJ	59 JJ	68 JJ
2,4-Dinitrotoluene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Diethylphthalate	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
4-Chlorophenyl-phenylether	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Fluorene	330	22 JJ	23 JJ	48 JJ	68 JJ	400 U	39 JJ	90 JJ
4-Nitroaniline	800	1900 U	1900 U	910 U	1000 U	960 U	1200 U	2000 U
4,6-Dinitro-2-methylphenol	800	1900 UR	1900 UR	910 U	1000 UR	960 UR	1200 U	2000 UR
N-Nitrosodiphenylamine	330	240 JJ	750 JJ	370 U	83 JJ	400 U	500 U	100 JJ
4-Bromophenyl-phenylether	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Hexachlorobenzene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Pentachlorophenol	800	1900 UR	1900 UR	910 U	1000 UR	960 UR	1200 U	2000 UR
Phenanthrene	330	230 JJ	220 JJ	270 JJ	390 JJ	130 JJ	240 JJ	490 JJ
Anthracene	330	37 JJ	24 JJ	34 JJ	33 JJ	16 JJ	11 JJ	55 JJ
Carbazole	330	19 JJ	26 JJ	370 U	430 U	400 U	10 JJ	840 U
Di-n-butylphthalate	330	790 U	790 U	79 JJ	27 JJ	15 JJ	17 JJ	840 U
Fluoranthene	330	170 JJ	230 JJ	330 JJ	110 JJ	120 JJ	110 JJ	160 JJ
Pyrene	330	400 JJ	470 JJ	410	130 JJ	140 JJ	84 JJ	220 JJ
Butylbenzylphthalate	330	790 U	790 U	370 U	430 UJ	400 U	500 U	35 JJ
3,3'-Dichlorobenzidine	330	790 UJ	790 UJ	370 UJ	430 UJ	400 UJ	500 UJ	840 UJ
Benzo(a)Anthracene	330	190 JJ	150 JJ	35 JJ	68 JJ	52 JJ	500 U	63 JJ
Chrysene	330	440 JJ	390 JJ	52 JJ	210 JJ	130 JJ	500 U	260 JJ
bis(2-Ethylhexyl)phthalate	330	790 UJ	790 UJ	370 UJ	430 UJ	400 UJ	500 UJ	840 UJ
Di-n-octylphthalate	330	62 JJ	790 U	7 JJ	9 JJ	10 JJ	12 JJ	69 JJ
Benzo(b)Fluoranthene	330	180 JJ	62 JJ	370 U	120 JJ	95 JJ	500 U	130 JJ
Benzo(k)Fluoranthene	330	110 JJ	150 JJ	370 U	88 JJ	57 JJ	500 U	110 JJ
Benzo(a)Pyrene	330	71 JJ	110 JJ	370 U	24 JJ	25 JJ	500 U	840 U
Indeno(1,2,3-c,d)Pyrene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Dibenz(a,h)Anthracene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Benzo(g,h,i)perylene	330	790 U	790 U	370 U	430 U	400 U	500 U	840 U
Dilution Factor:		2.00	2.00	1.00	1.00	1.00	1.00	2.00
Percent Solids:		84	84	88	77	83	66	79
Associated Method Blank:		HO224	HO224	HO224	HO224	HO224	HO224	HO224
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSPS101X0292XD		GSPS101X0292XX		GSPS102X0192XX		GSPS103X0492XX		GSPS104X0292XX		GSPS105X0292XX		GSPS106X0292XX	
	LAB NUMBER:	1541904 #		1541901 #		1541909 #		1541905 #		1541908 #		1541907 #		1541906 #	
	DATE SAMPLED:	01/12/93		01/12/93		01/12/93		01/12/93		01/12/93		01/12/93		01/12/93	
	DATE EXTRACTED:	01/19/93		01/19/93		01/19/93		01/19/93		01/19/93		01/19/93		01/19/93	
	DATE ANALYZED:	02/15/93		02/15/93		02/15/93		02/15/93		02/15/93		02/15/93		02/15/93	
ANALYTE	SOW-3/90 - II CRQL														
Phenol	330		R		R	-			R		R	-			R
bis(2-Chloroethyl)ether	330	-		-		-		-		-		-		-	
2-Chlorophenol	330		R		R	-			R		R	-			R
1,3-Dichlorobenzene	330	-		-		-		-		-		-		-	
1,4-Dichlorobenzene	330	-		-		-		-		-		-		-	
1,2-Dichlorobenzene	330	-		-		-		-		-		-		-	
2-Methylphenol	330		R		R	-			R		R	-			R
2,2'-oxybis(1-Chloropropane)	330	-		-		-		-		-		-		-	
4-Methylphenol	330		R		R	-			R		R	-			R
N-Nitroso-di-n-propylamine	330	-		-		-		-		-		-		-	
Hexachloroethane	330	-		-		-		-		-		-		-	
Nitrobenzene	330	-		-		-		-		-		-		-	
Isophorone	330	-		-		-		-		-		-		-	
2-Nitrophenol	330		R		R	-			R		R	-			R
2,4-Dimethylphenol	330		R		R	-		31	JJ		R	-		60	JJ
bis(2-Chloroethoxy)methane	330	-		-		-		-		-		-		-	
2,4-Dichlorophenol	330		R		R	-			R		R	-			R
1,2,4-Trichlorobenzene	330	-		-		-		-		-		-		-	
Naphthalene	330	75	JJ	-		18	JJ	140	JJ	30	JJ	-		120	JJ
4-Chloroaniline	330	-		-		-		-		-		-		-	
Hexachlorobutadiene	330	-		-		-		-		-		-		-	
4-Chloro-3-Methylphenol	330		R		R	-			R		R	-			R
2-Methylnaphthalene	330	47	JJ	30	JJ	18	JJ	180	JJ	36	JJ	74	JJ	230	JJ
Hexachlorocyclopentadiene	330	-		-		-		-		-		-		-	
2,4,6-Trichlorophenol	330		R		R	-			R		R	-			R
2,4,5-Trichlorophenol	800		R		R	-			R		R	-			R
2-Chloronaphthalene	330	-		-		-		-		-		-		-	
2-Nitroaniline	800	-		-		-		-		-		-		-	
Dimethylphthalate	330	-		-		-		-		-		-		-	
Acenaphthylene	330	-		-		-		-		-		-		-	
2,6-Dinitrotoluene	330	-		-		-		-		-		-		-	

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
		LAB NUMBER: 1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
		DATE SAMPLED: 01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
		DATE EXTRACTED: 01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
		DATE ANALYZED: 02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93	02/15/93
3-Nitroaniline	800	-	-	-	-	-	-	-
Acenaphthene	330	83 JJ	-	41 JJ	95 JJ	22 JJ	52 JJ	110 JJ
2,4-Dinitrophenol	800	R	R	-	R	R	-	R
4-Nitrophenol	800	R	R	-	R	R	-	R
Dibenzofuran	330	18 JJ	14 JJ	18 JJ	65 JJ	20 JJ	59 JJ	68 JJ
2,4-Dinitrotoluene	330	-	-	-	-	-	-	-
Diethylphthalate	330	-	-	-	-	-	-	-
4-Chlorophenyl-phenylether	330	-	-	-	-	-	-	-
Fluorene	330	22 JJ	23 JJ	48 JJ	68 JJ	-	39 JJ	90 JJ
4-Nitroaniline	800	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	800	R	R	-	R	R	-	R
N-Nitrosodiphenylamine	330	240 JJ	750 JJ	-	83 JJ	-	-	100 JJ
4-Bromophenyl-phenylether	330	-	-	-	-	-	-	-
Hexachlorobenzene	330	-	-	-	-	-	-	-
Pentachlorophenol	800	R	R	-	R	R	-	R
Phenanthrene	330	230 JJ	220 JJ	270 JJ	390 JJ	130 JJ	240 JJ	490 JJ
Anthracene	330	37 JJ	24 JJ	34 JJ	33 JJ	16 JJ	11 JJ	55 JJ
Carbazole	330	19 JJ	26 JJ	-	-	-	10 JJ	-
Di-n-butylphthalate	330	-	-	79 JJ	27 JJ	15 JJ	17 JJ	-
Fluoranthene	330	170 JJ	230 JJ	330 JJ	110 JJ	120 JJ	110 JJ	160 JJ
Pyrene	330	400 JJ	470 JJ	410	130 JJ	140 JJ	84 JJ	220 JJ
Butylbenzylphthalate	330	-	-	-	-	-	-	35 JJ
3,3'-Dichlorobenzidine	330	-	-	-	-	-	-	-
Benzo(a)Anthracene	330	190 JJ	150 JJ	35 JJ	68 JJ	52 JJ	-	63 JJ
Chrysene	330	440 JJ	390 JJ	52 JJ	210 JJ	130 JJ	-	260 JJ
bis(2-Ethylhexyl)phthalate	330	-	-	-	-	-	-	-
Di-n-octylphthalate	330	62 JJ	-	7 JJ	9 JJ	10 JJ	12 JJ	69 JJ
Benzo(b)Fluoranthene	330	180 JJ	62 JJ	-	120 JJ	95 JJ	-	130 JJ
Benzo(k)Fluoranthene	330	110 JJ	150 JJ	-	88 JJ	57 JJ	-	110 JJ
Benzo(a)Pyrene	330	71 JJ	110 JJ	-	24 JJ	25 JJ	-	-
Indeno(1,2,3-c,d)Pyrene	330	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	330	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	330	-	-	-	-	-	-	-
Dilution Factor:		2.00	2.00	1.00	1.00	1.00	1.00	2.00
Percent Solids:		84	84	88	77	83	66	79
Associated Method Blank:		HO224	HO224	HO224	HO224	HO224	HO224	HO224
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS104X0692XX	GSBS105X0292XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 #	1456502 R #	1456503 #	1456503 R #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/06/92	11/04/92	11/04/92	11/04/92	12/10/92
	DATE ANALYZED:	12/04/92	12/04/92	12/07/92	12/04/92	12/18/92
ANALYTE	SOW-3/90 - II CRQL					
Phenol	330	400 U	380 U	380 U	750 U	380 U
bis(2-Chloroethyl)ether	330	400 U	380 U	380 U	750 U	380 U
2-Chlorophenol	330	400 U	380 U	380 U	750 U	380 U
1,3-Dichlorobenzene	330	400 U	380 U	380 U	750 U	380 U
1,4-Dichlorobenzene	330	400 U	380 U	380 U	750 U	380 U
1,2-Dichlorobenzene	330	400 U	380 U	380 U	750 U	380 U
2-Methylphenol	330	400 U	380 U	380 U	750 U	380 U
2,2'-oxybis(1-Chloropropane)	330	400 U	380 U	380 U	750 U	380 U
4-Methylphenol	330	400 U	380 U	380 U	750 U	380 U
N-Nitroso-di-n-propylamine	330	400 U	380 U	380 U	750 U	380 U
Hexachloroethane	330	400 U	380 U	380 U	750 U	380 U
Nitrobenzene	330	400 U	380 U	380 U	750 U	380 U
Isophorone	330	400 U	380 U	380 U	750 U	380 U
2-Nitrophenol	330	400 U	380 U	380 U	750 U	380 U
2,4-Dimethylphenol	330	400 U	380 U	380 U	750 U	380 U
bis(2-Chloroethoxy)methane	330	400 U	380 U	380 U	750 U	380 U
2,4-Dichlorophenol	330	400 U	380 U	380 U	750 U	380 U
1,2,4-Trichlorobenzene	330	400 U	380 U	380 U	750 U	380 U
Naphthalene	330	400 U	380 U	380 U	750 U	380 U
4-Chloroaniline	330	400 U	380 U	380 U	750 U	380 U
Hexachlorobutadiene	330	400 U	380 U	380 U	750 U	380 U
4-Chloro-3-Methylphenol	330	400 U	380 U	380 U	750 U	380 U
2-Methylnaphthalene	330	400 U	9 J	9 J	47 J	20 J
Hexachlorocyclopentadiene	330	400 U	380 U	380 U	380 U	380 U
2,4,6-Trichlorophenol	330	400 U	380 U	380 U	750 U	380 U
2,4,5-Trichlorophenol	800	960 U	930 U	930 U	1800 U	910 U
2-Chloronaphthalene	330	400 U	380 U	380 U	750 U	380 U
2-Nitroaniline	800	960 U	930 U	930 U	1800 U	910 U
Dimethylphthalate	330	400 U	380 U	380 U	750 U	380 U
Acenaphthylene	330	400 U	380 U	380 U	750 U	380 U
2,6-Dinitrotoluene	330	400 U	380 U	380 U	750 U	380 U

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS104X0692XX	GSBS105X0292XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 #	1456502 R #	1456503 #	1456503 R #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/06/92	11/04/92	11/04/92	11/04/92	12/10/92
	DATE ANALYZED:	12/04/92	12/04/92	12/07/92	12/04/92	12/18/92
ANALYTE	SOW-3/90 - II CRQL					
3-Nitroaniline	800	960 U	930 U	930 U	1800 U	910 U
Acenaphthene	330	400 U	380 U	380 U	30 J	24 J
2,4-Dinitrophenol	800	960 U	930 U	930 U	1800 U	910 U
4-Nitrophenol	800	960 U	930 U	930 U	1800 U	910 U
Dibenzofuran	330	400 U	6 J	5 J	35 J	16 J
2,4-Dinitrotoluene	330	400 U	380 U	380 U	750 U	380 U
Diethylphthalate	330	400 U	380 U	380 U	750 U	380 U
4-Chlorophenyl-phenylether	330	400 U	380 U	380 U	750 U	380 U
Fluorene	330	400 U	380 U	380 U	17 J	26 J
4-Nitroaniline	800	960 U	930 U	930 U	1800 U	910 U
4,6-Dinitro-2-methylphenol	800	960 U	930 U	930 U	1800 U	910 U
N-Nitrosodiphenylamine	330	400 U	380 U	380 U	34 J	380 U
4-Bromophenyl-phenylether	330	400 U	380 U	380 U	750 U	380 U
Hexachlorobenzene	330	400 U	380 U	380 U	750 U	380 U
Pentachlorophenol	800	960 U	930 U	930 U	1800 U	910 U
Phenanthrene	330	400 U	43 J	42 J	220 J	250 J
Anthracene	330	400 U	4 J	3 J	35 J	45 J
Carbazole	330	400 U	380 U	380 U	750 U	19 J
Di-n-butylphthalate	330	46 J	590	610	320 J	13 J
Fluoranthene	330	400 U	51 J	51 J	460 J	450
Pyrene	330	400 U	33 J	34 J	380 J	430
Butylbenzylphthalate	330	400 U	29 J	21 J	750 U	380 U
3,3'-Dichlorobenzidine	330	400 U	380 U	380 U	750 U	380 U
Benzo(a)Anthracene	330	400 U	17 J	380 U	180 J	250 J
Chrysene	330	400 U	29 J	26 J	270 J	350 J
bis(2-Ethylhexyl)phthalate	330	43 BJ	270 BJ	250 BJ	110 BJ	96 BJ
Di-n-octylphthalate	330	400 U	13 BJ	11 BJ	750 U	380 U
Benzo(b)Fluoranthene	330	400 U	14 J	12 J	97 J	140 J
Benzo(k)Fluoranthene	330	400 U	8 J	13 J	71 J	140 J
Benzo(a)Pyrene	330	400 U	380 U	380 U	63 J	150 J
Indeno(1,2,3-c,d)Pyrene	330	400 U	380 U	380 U	750 U	91 J
Dibenz(a,h)Anthracene	330	400 U	380 U	380 U	750 U	380 U
Benzo(g,h,i)perylene	330	400 U	380 U	380 U	750 U	90 J
Dilution Factor:		1.00	1.00	1.00	2.00	1.00
Percent Solids:		83	86	86	88	88
Associated Method Blank:		B1236	B1270	B1270	B1270	B1385
Associated Equipment Blank:		-	-	-	-	-
Associated Field Blank:		-	-	-	-	-

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 R #	1456503 #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/06/92	11/04/92	11/04/92
	DATE ANALYZED:	12/04/92	12/07/92	12/04/92
ANALYTE	SOW-3/90 - II CRQL			
Phenol	330	400 UJ	380 U	750 U
bis(2-Chloroethyl)ether	330	400 UJ	380 U	750 U
2-Chlorophenol	330	400 UJ	380 U	750 U
1,3-Dichlorobenzene	330	400 UJ	380 U	750 U
1,4-Dichlorobenzene	330	400 UJ	380 U	750 U
1,2-Dichlorobenzene	330	400 UJ	380 U	750 U
2-Methylphenol	330	400 UJ	380 U	750 U
2,2'-oxybis(1-Chloropropane)	330	400 UJ	380 U	750 U
4-Methylphenol	330	400 UJ	380 U	750 U
N-Nitroso-di-n-propylamine	330	400 UJ	380 U	750 U
Hexachloroethane	330	400 UJ	380 U	750 U
Nitrobenzene	330	400 UJ	380 U	750 U
Isophorone	330	400 UJ	380 U	750 U
2-Nitrophenol	330	400 UJ	380 U	750 U
2,4-Dimethylphenol	330	400 UJ	380 U	750 U
bis(2-Chloroethoxy)methane	330	400 UJ	380 U	750 U
2,4-Dichlorophenol	330	400 UJ	380 U	750 U
1,2,4-Trichlorobenzene	330	400 UJ	380 U	750 U
Naphthalene	330	400 UJ	380 U	750 U
4-Chloroaniline	330	400 UJ	380 U	750 U
Hexachlorobutadiene	330	400 UJ	380 U	750 U
4-Chloro-3-Methylphenol	330	400 UJ	380 U	750 U
2-Methylnaphthalene	330	400 UJ	9 JJ	47 JJ
Hexachlorocyclopentadiene	330	400 UJ	380 UJ	380 UJ
2,4,6-Trichlorophenol	330	400 UJ	380 U	750 U
2,4,5-Trichlorophenol	800	960 UJ	930 U	1800 U
2-Chloronaphthalene	330	400 UJ	380 U	750 U
2-Nitroaniline	800	960 UJ	930 U	1800 U
Dimethylphthalate	330	400 UJ	380 U	750 U
Acenaphthylene	330	400 UJ	380 U	750 U
2,6-Dinitrotoluene	330	400 UJ	380 U	750 U

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 R #	1456503 #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/06/92	11/04/92	11/04/92
	DATE ANALYZED:	12/04/92	12/07/92	12/04/92

ANALYTE	SOW-3/90 - II CRQL					
3-Nitroaniline	800	960	UJ	930	U	1800 U
Acenaphthene	330	400	UJ	380	U	30 JJ
2,4-Dinitrophenol	800	960	UJ	930	U	1800 U
4-Nitrophenol	800	960	UJ	930	U	1800 U
Dibenzofuran	330	400	UJ	5	JJ	35 JJ
2,4-Dinitrotoluene	330	400	UJ	380	U	750 U
Diethylphthalate	330	400	UJ	380	U	750 U
4-Chlorophenyl-phenylether	330	400	UJ	380	U	750 U
Fluorene	330	400	UJ	380	U	17 JJ
4-Nitroaniline	800	960	UJ	930	U	1800 U
4,6-Dinitro-2-methylphenol	800	960	UJ	930	UJ	1800 U
N-Nitrosodiphenylamine	330	400	UJ	380	UJ	34 JJ
4-Bromophenyl-phenylether	330	400	UJ	380	UJ	750 U
Hexachlorobenzene	330	400	UJ	380	UJ	750 U
Pentachlorophenol	800	960	UJ	930	UJ	1800 U
Phenanthrene	330	400	UJ	42	JJ	220 JJ
Anthracene	330	400	UJ	3	JJ	35 JJ
Carbazole	330	400	UJ	380	UJ	750 U
Di-n-butylphthalate	330	46	JJ	610	J	320 JJ
Fluoranthene	330	400	UJ	51	JJ	460 JJ
Pyrene	330	400	UJ	34	JJ	380 JJ
Butylbenzylphthalate	330	400	UJ	21	JJ	750 UJ
3,3'-Dichlorobenzidine	330	400	UJ	380	U	750 UJ
Benzo(a)Anthracene	330	400	UJ	380	U	180 JJ
Chrysene	330	400	UJ	26	JJ	270 JJ
bis(2-Ethylhexyl)phthalate	330	400	UJ	380	U	750 UJ
Di-n-octylphthalate	330	400	UJ	380	UJ	750 U
Benzo(b)Fluoranthene	330	400	UJ	12	JJ	97 JJ
Benzo(k)Fluoranthene	330	400	UJ	13	JJ	71 JJ
Benzo(a)Pyrene	330	400	UJ	380	U	63 JJ
Indeno(1,2,3-c,d)Pyrene	330	400	UJ	380	U	750 UJ
Dibenz(a,h)Anthracene	330	400	UJ	380	U	750 U
Benzo(g,h,i)perylene	330	400	UJ	380	U	750 U
Dilution Factor:		1.00		1.00		2.00
Percent Solids:		83		86		88
Associated Method Blank:		B1236		B1270		B1270
Associated Equipment Blank:		-		-		-
Associated Field Blank:		-		-		-

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 R #	1456503 #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/06/92	11/04/92	11/04/92
	DATE ANALYZED:	12/04/92	12/07/92	12/04/92

ANALYTE	SOW-3/90 - II CRQL			
Phenol	330	-	-	-
bis(2-Chloroethyl)ether	330	-	-	-
2-Chlorophenol	330	-	-	-
1,3-Dichlorobenzene	330	-	-	-
1,4-Dichlorobenzene	330	-	-	-
1,2-Dichlorobenzene	330	-	-	-
2-Methylphenol	330	-	-	-
2,2'-oxybis(1-Chloropropane)	330	-	-	-
4-Methylphenol	330	-	-	-
N-Nitroso-di-n-propylamine	330	-	-	-
Hexachloroethane	330	-	-	-
Nitrobenzene	330	-	-	-
Isophorone	330	-	-	-
2-Nitrophenol	330	-	-	-
2,4-Dimethylphenol	330	-	-	-
bis(2-Chloroethoxy)methane	330	-	-	-
2,4-Dichlorophenol	330	-	-	-
1,2,4-Trichlorobenzene	330	-	-	-
Naphthalene	330	-	-	-
4-Chloroaniline	330	-	-	-
Hexachlorobutadiene	330	-	-	-
4-Chloro-3-Methylphenol	330	-	-	-
2-Methylnaphthalene	330	-	9 JJ	47 JJ
Hexachlorocyclopentadiene	330	-	-	-
2,4,6-Trichlorophenol	330	-	-	-
2,4,5-Trichlorophenol	800	-	-	-
2-Chloronaphthalene	330	-	-	-
2-Nitroaniline	800	-	-	-
Dimethylphthalate	330	-	-	-
Acenaphthylene	330	-	-	-
2,6-Dinitrotoluene	330	-	-	-

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 R #	1456503 #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/06/92	11/04/92	11/04/92
	DATE ANALYZED:	12/04/92	12/07/92	12/04/92
ANALYTE	SOW-3/90 - II CRQL			
3-Nitroaniline	800	-	-	-
Acenaphthene	330	-	-	30 JJ
2,4-Dinitrophenol	800	-	-	-
4-Nitrophenol	800	-	-	-
Dibenzofuran	330	-	5 JJ	35 JJ
2,4-Dinitrotoluene	330	-	-	-
Diethylphthalate	330	-	-	-
4-Chlorophenyl-phenylether	330	-	-	-
Fluorene	330	-	-	17 JJ
4-Nitroaniline	800	-	-	-
4,6-Dinitro-2-methylphenol	800	-	-	-
N-Nitrosodiphenylamine	330	-	-	34 JJ
4-Bromophenyl-phenylether	330	-	-	-
Hexachlorobenzene	330	-	-	-
Pentachlorophenol	800	-	-	-
Phenanthrene	330	-	42 JJ	220 JJ
Anthracene	330	-	3 JJ	35 JJ
Carbazole	330	-	-	-
Di-n-butylphthalate	330	46 JJ	610 J	320 JJ
Fluoranthene	330	-	51 JJ	460 JJ
Pyrene	330	-	34 JJ	380 JJ
Butylbenzylphthalate	330	-	21 JJ	-
3,3'-Dichlorobenzidine	330	-	-	-
Benzo(a)Anthracene	330	-	-	180 JJ
Chrysene	330	-	26 JJ	270 JJ
bis(2-Ethylhexyl)phthalate	330	-	-	-
Di-n-octylphthalate	330	-	-	-
Benzo(b)Fluoranthene	330	-	12 JJ	97 JJ
Benzo(k)Fluoranthene	330	-	13 JJ	71 JJ
Benzo(a)Pyrene	330	-	-	63 JJ
Indeno(1,2,3-c,d)Pyrene	330	-	-	-
Dibenz(a,h)Anthracene	330	-	-	-
Benzo(g,h,i)perylene	330	-	-	-
Dilution Factor:		1.00	1.00	2.00
Percent Solids:		83	86	88
Associated Method Blank:		B1236	B1270	B1270
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-

Site: SOIL BORING
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/15/93

ANALYTE	SOW-3/90 - II CRQL		
Phenol	330	360	U
bis(2-Chloroethyl)ether	330	360	U
2-Chlorophenol	330	360	U
1,3-Dichlorobenzene	330	360	U
1,4-Dichlorobenzene	330	360	U
1,2-Dichlorobenzene	330	360	U
2-Methylphenol	330	360	U
2,2'-oxybis(1-Chloropropane)	330	360	U
4-Methylphenol	330	360	U
N-Nitroso-di-n-propylamine	330	360	U
Hexachloroethane	330	360	U
Nitrobenzene	330	360	U
Isophorone	330	360	U
2-Nitrophenol	330	360	U
2,4-Dimethylphenol	330	360	U
bis(2-Chloroethoxy)methane	330	360	U
2,4-Dichlorophenol	330	360	U
1,2,4-Trichlorobenzene	330	360	U
Naphthalene	330	360	U
4-Chloroaniline	330	360	U
Hexachlorobutadiene	330	360	U
4-Chloro-3-Methylphenol	330	360	U
2-Methylnaphthalene	330	360	U
Hexachlorocyclopentadiene	330	360	U
2,4,6-Trichlorophenol	330	360	U
2,4,5-Trichlorophenol	800	870	U
2-Chloronaphthalene	330	360	U
2-Nitroaniline	800	870	U
Dimethylphthalate	330	360	U
Acenaphthylene	330	360	U
2,6-Dinitrotoluene	330	360	U

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/15/93

ANALYTE	SOW-3/90 - II CRQL		
3-Nitroaniline	800	870	U
Acenaphthene	330	20	J
2,4-Dinitrophenol	800	870	U
4-Nitrophenol	800	870	U
Dibenzofuran	330	9	J
2,4-Dinitrotoluene	330	360	U
Diethylphthalate	330	360	U
4-Chlorophenyl-phenylether	330	360	U
Fluorene	330	14	J
4-Nitroaniline	800	870	U
4,6-Dinitro-2-methylphenol	800	870	U
N-Nitrosodiphenylamine	330	360	U
4-Bromophenyl-phenylether	330	360	U
Hexachlorobenzene	330	360	U
Pentachlorophenol	800	870	U
Phenanthrene	330	220	J
Anthracene	330	17	J
Carbazole	330	360	U
Di-n-butylphthalate	330	360	U
Fluoranthene	330	140	J
Pyrene	330	120	J
Butylbenzylphthalate	330	360	U
3,3'-Dichlorobenzidine	330	360	U
Benzo(a)Anthracene	330	360	U
Chrysene	330	360	U
bis(2-Ethylhexyl)phthalate	330	360	U
Di-n-octylphthalate	330	360	U
Benzo(b)Fluoranthene	330	360	U
Benzo(k)Fluoranthene	330	360	U
Benzo(a)Pyrene	330	360	U
Indeno(1,2,3-c,d)Pyrene	330	360	U
Dibenz(a,h)Anthracene	330	360	U
Benzo(g,h,i)perylene	330	360	U

Dilution Factor: 1.00
Percent Solids: 92

Associated Method Blank: H0224
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/15/93

ANALYTE	SOW-3/90 - II CRQL		
Phenol	330	360	U
bis(2-Chloroethyl)ether	330	360	U
2-Chlorophenol	330	360	U
1,3-Dichlorobenzene	330	360	U
1,4-Dichlorobenzene	330	360	U
1,2-Dichlorobenzene	330	360	U
2-Methylphenol	330	360	U
2,2'-oxybis(1-Chloropropane)	330	360	U
4-Methylphenol	330	360	U
N-Nitroso-di-n-propylamine	330	360	U
Hexachloroethane	330	360	U
Nitrobenzene	330	360	U
Isophorone	330	360	U
2-Nitrophenol	330	360	U
2,4-Dimethylphenol	330	360	U
bis(2-Chloroethoxy)methane	330	360	U
2,4-Dichlorophenol	330	360	U
1,2,4-Trichlorobenzene	330	360	U
Naphthalene	330	360	U
4-Chloroaniline	330	360	U
Hexachlorobutadiene	330	360	U
4-Chloro-3-Methylphenol	330	360	U
2-Methylnaphthalene	330	360	U
Hexachlorocyclopentadiene	330	360	UJ
2,4,6-Trichlorophenol	330	360	U
2,4,5-Trichlorophenol	800	870	U
2-Chloronaphthalene	330	360	U
2-Nitroaniline	800	870	U
Dimethylphthalate	330	360	U
Acenaphthylene	330	360	U
2,6-Dinitrotoluene	330	360	U

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 2
Validation / Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/15/93

ANALYTE	SOW-3/90 - II CRQL		
3-Nitroaniline	800	870	U
Acenaphthene	330	20	JJ
2,4-Dinitrophenol	800	870	UJ
4-Nitrophenol	800	870	U
Dibenzofuran	330	9	JJ
2,4-Dinitrotoluene	330	360	U
Diethylphthalate	330	360	U
4-Chlorophenyl-phenylether	330	360	U
Fluorene	330	14	JJ
4-Nitroaniline	800	870	U
4,6-Dinitro-2-methylphenol	800	870	U
N-Nitrosodiphenylamine	330	360	U
4-Bromophenyl-phenylether	330	360	U
Hexachlorobenzene	330	360	U
Pentachlorophenol	800	870	U
Phenanthrene	330	220	JJ
Anthracene	330	17	JJ
Carbazole	330	360	U
Di-n-butylphthalate	330	360	U
Fluoranthene	330	140	JJ
Pyrene	330	120	JJ
Butylbenzylphthalate	330	360	U
3,3'-Dichlorobenzidine	330	360	UJ
Benzo(a)Anthracene	330	360	U
Chrysene	330	360	U
bis(2-Ethylhexyl)phthalate	330	360	UJ
Di-n-octylphthalate	330	360	U
Benzo(b)Fluoranthene	330	360	U
Benzo(k)Fluoranthene	330	360	U
Benzo(a)Pyrene	330	360	U
Indeno(1,2,3-c,d)Pyrene	330	360	U
Dibenz(a,h)Anthracene	330	360	U
Benzo(g,h,i)perylene	330	360	U

Dilution Factor: 1.00
Percent Solids: 92

Associated Method Blank: H0224
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/15/93

ANALYTE	SOW-3/90 - II CRQL	
Phenol	330	-
bis(2-Chloroethyl)ether	330	-
2-Chlorophenol	330	-
1,3-Dichlorobenzene	330	-
1,4-Dichlorobenzene	330	-
1,2-Dichlorobenzene	330	-
2-Methylphenol	330	-
2,2'-oxybis(1-Chloropropane)	330	-
4-Methylphenol	330	-
N-Nitroso-di-n-propylamine	330	-
Hexachloroethane	330	-
Nitrobenzene	330	-
Isophorone	330	-
2-Nitrophenol	330	-
2,4-Dimethylphenol	330	-
bis(2-Chloroethoxy)methane	330	-
2,4-Dichlorophenol	330	-
1,2,4-Trichlorobenzene	330	-
Naphthalene	330	-
4-Chloroaniline	330	-
Hexachlorobutadiene	330	-
4-Chloro-3-Methylphenol	330	-
2-Methylnaphthalene	330	-
Hexachlorocyclopentadiene	330	-
2,4,6-Trichlorophenol	330	-
2,4,5-Trichlorophenol	800	-
2-Chloronaphthalene	330	-
2-Nitroaniline	800	-
Dimethylphthalate	330	-
Acenaphthylene	330	-
2,6-Dinitrotoluene	330	-

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 3
Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/15/93

ANALYTE	SOW-3/90 - II CRQL		
3-Nitroaniline	800	-	
Acenaphthene	330	20	JJ
2,4-Dinitrophenol	800	-	
4-Nitrophenol	800	-	
Dibenzofuran	330	9	JJ
2,4-Dinitrotoluene	330	-	
Diethylphthalate	330	-	
4-Chlorophenyl-phenylether	330	-	
Fluorene	330	14	JJ
4-Nitroaniline	800	-	
4,6-Dinitro-2-methylphenol	800	-	
N-Nitrosodiphenylamine	330	-	
4-Bromophenyl-phenylether	330	-	
Hexachlorobenzene	330	-	
Pentachlorophenol	800	-	
Phenanthrene	330	220	JJ
Anthracene	330	17	JJ
Carbazole	330	-	
Di-n-butylphthalate	330	-	
Fluoranthene	330	140	JJ
Pyrene	330	120	JJ
Butylbenzylphthalate	330	-	
3,3'-Dichlorobenzidine	330	-	
Benzo(a)Anthracene	330	-	
Chrysene	330	-	
bis(2-Ethylhexyl)phthalate	330	-	
Di-n-octylphthalate	330	-	
Benzo(b)Fluoranthene	330	-	
Benzo(k)Fluoranthene	330	-	
Benzo(a)Pyrene	330	-	
Indeno(1,2,3-c,d)Pyrene	330	-	
Dibenz(a,h)Anthracene	330	-	
Benzo(g,h,i)perylene	330	-	

Dilution Factor: 1.00
Percent Solids: 92

Associated Method Blank: H0224
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE
#: Level IV Validation J: Estimated B: Blank contamination D: Diluted result -: Not detected
U: Not detected JJ: Estimated below CRQL E: Exceeds calibration range R: Unusable

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSQS001XXX92XX
LAB NUMBER: 1541911
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/17/93

ANALYTE	CRQL	
Aroclor-1016	1.0	1.0 U
Aroclor-1221	2.0	2.0 U
Aroclor-1232	1.0	1.0 U
Aroclor-1242	1.0	1.0 U
Aroclor-1248	1.0	1.0 U
Aroclor-1254	1.0	1.0 U
Aroclor-1260	1.0	1.0 U
Dilution Factor:		1

Associated Method Blank: PBLK5154
Associated Equipment Blank: -
Associated Field Blank: -

Site: EQUIPMENT RINSATE

U: Not detected

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel

Miscellaneous Soil Analysis (ug/kg)

03-Mar-93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		GSPS101X0292XD	GSPS101X0292XD	GSPS101X0292XX	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX
LAB NUMBER:		1541904 #	1541904 D #	1541901 #	1541901 D #	1541909 #	1541905 #	1541908 #	1541907 #
DATE SAMPLED:		01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
DATE EXTRACTED:		01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
DATE ANALYZED:		02/16/93	02/17/93	02/16/93	02/17/93	02/17/93	02/18/93	02/18/93	02/18/93
ANALYTE	CRQL								
Aroclor-1016	33	200 U	2000 U	120 U	2000 U	37 U	130 U	120 U	100 U
Aroclor-1221	67	400 U	4000 U	240 U	4000 U	76 U	260 U	240 U	200 U
Aroclor-1232	33	200 U	2000 U	120 U	2000 U	37 U	130 U	120 U	100 U
Aroclor-1242	33	200 U	2000 U	120 U	2000 U	37 U	130 U	120 U	100 U
Aroclor-1248	33	11000	15000	9300	13000	37 U	900	390	100 U
Aroclor-1254	33	200 U	2000 U	120 U	2000 U	37 U	130 U	190 P	100 U
Aroclor-1260	33	200 U	2000 U	120 U	2000 U	32 JP	130 U	140	110
Dilution Factor:		5	50	3	50	1	3	3	2
Percent Solids:		84	84	83	83	88	77	83	66
Associated Method Blank:		PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation

U: Not detected P: >25% difference between columns

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Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSPS106X0292XX
LAB NUMBER: 1541906 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/18/93

ANALYTE	CRQL	
Aroclor-1016	33	130 U
Aroclor-1221	67	250 U
Aroclor-1232	33	130 U
Aroclor-1242	33	130 U
Aroclor-1248	33	130 U
Aroclor-1254	33	340 P
Aroclor-1260	33	130 U

Dilution Factor: 3
Percent Solids: 79

Associated Method Blank: PBLK5155
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: TEST PIT SOIL
#: Level IV Validation

U: Not detected P: >25% difference b

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Miscellaneous Soil Analysis (ug/kg) | 03-Mar-93

Table 2
Validation / Summary Table

SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
LAB NUMBER:	1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
DATE EXTRACTED:	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
DATE ANALYZED:	02/16/93	02/16/93	02/17/93	02/18/93	02/18/93	02/18/93	02/18/93

ANALYTE	CRQL							
Aroclor-1016	33	200 U	120 U	37 U	130 U	120 U	100 J	130 U
Aroclor-1221	67	400 U	240 U	76 U	260 U	240 U	200 J	250 U
Aroclor-1232	33	200 U	120 U	37 U	130 U	120 U	100 J	130 U
Aroclor-1242	33	200 U	120 U	37 U	130 U	120 U	100 J	130 U
Aroclor-1248	33	15000	13000	37 U	900	390	100 J	130 U
Aroclor-1254	33	200 U	120 U	37 U	130 U	190 J	100 J	340 J
Aroclor-1260	33	200 U	120 U	32 JJ	130 U	140	110	130 U
Dilution Factor:		5	3	1	3	3	2	3
Percent Solids:		84	83	88	77	83	66	79
Associated Method Blank:		PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation

U: Not detected J: Estimated

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PROJECT: NYSDEC PSA-6 Guterl Specialty Steel Miscellaneous Soil Analysis (ug/kg) 03-Mar-93

Table 3
Summary Table

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
	LAB NUMBER:	1541904 #	1541901 #	1541909 #	1541905 #	1541908 #	1541907 #	1541906 #
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
	DATE EXTRACTED:	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93	01/19/93
	DATE ANALYZED:	02/16/93	02/16/93	02/17/93	02/18/93	02/18/93	02/18/93	02/18/93
ANALYTE	CRQL							
Aroclor-1016	33	-	-	-	-	-	-	-
Aroclor-1221	67	-	-	-	-	-	-	-
Aroclor-1232	33	-	-	-	-	-	-	-
Aroclor-1242	33	-	-	-	-	-	-	-
Aroclor-1248	33	15000	13000	-	900	390	-	-
Aroclor-1254	33	-	-	-	-	190 J	-	340 J
Aroclor-1260	33	-	-	32 JJ	-	140	110	-
	Dilution Factor:	5	3	1	3	3	2	3
	Percent Solids:	84	83	88	77	83	66	79
	Associated Method Blank:	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155	PBLK5155
	Associated Equipment Blank:	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
	Associated Field Blank:	-	-	-	-	-	-	-

Site: TEST PIT SOIL
#: Level IV Validation

J: Estimated -: Not detected

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Miscellaneous Soil Analysis (ug/kg) | 03-Mar-93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		GSBS101X0492XX	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX	GSBS105X0292XX
LAB NUMBER:		1456501 #	1456501 R #	1456502 #	1456503 #	1456503 R #
DATE SAMPLED:		10/28/92	10/28/92	10/28/92	10/28/92	10/28/92
DATE EXTRACTED:		11/04/92	11/09/92	11/04/92	11/04/92	11/09/92
DATE ANALYZED:		11/22/92	11/24/92	11/22/92	11/22/92	11/24/92
ANALYTE	CRQL					
Aroclor-1016	33	40 U	40 U	38 U	37 U	37 U
Aroclor-1221	67	81 U	81 U	78 U	76 U	76 U
Aroclor-1232	33	40 U	40 U	38 U	37 U	37 U
Aroclor-1242	33	40 U	40 U	38 U	37 U	37 U
Aroclor-1248	33	40 U	40 U	150	37 U	220 P
Aroclor-1254	33	40 U	40 U	38 U	37 U	37 U
Aroclor-1260	33	40 U	40 U	38 U	37 U	37 U
Dilution Factor:		1	1	1	1	1
Percent Solids:		83	83	86	88	88
Associated Method Blank:		PBLK9034	PBLK9036	PBLK9034	PBLK9034	PBLK9036
Associated Equipment Blank:		-	-	-	-	-
Associated Field Blank:		-	-	-	-	-

Site: SOIL BORING
#: Level IV Validation

U: Not detected P: >25% difference between columns

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 #	1456503 R #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/04/92	11/04/92	11/09/92
	DATE ANALYZED:	11/22/92	11/22/92	11/24/92
ANALYTE	CRQL			
Aroclor-1016	33	40 U	38 UJ	37 U
Aroclor-1221	67	81 U	78 UJ	76 U
Aroclor-1232	33	40 U	38 UJ	37 U
Aroclor-1242	33	40 U	38 UJ	37 U
Aroclor-1248	33	40 U	150 J	220 J
Aroclor-1254	33	40 U	38 UJ	37 U
Aroclor-1260	33	40 U	38 UJ	37 U
Dilution Factor:		1	1	1
Percent Solids:		83	86	88
Associated Method Blank:		PBLK9034	PBLK9034	PBLK9036
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-

Site: SOIL BORING
#: Level IV Validation

U: Not detected J: Estimated

Table 3
Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501 #	1456502 #	1456503 R #
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
	DATE EXTRACTED:	11/04/92	11/04/92	11/09/92
	DATE ANALYZED:	11/22/92	11/22/92	11/24/92
ANALYTE	CRQL			
Aroclor-1016	33	-	-	-
Aroclor-1221	67	-	-	-
Aroclor-1232	33	-	-	-
Aroclor-1242	33	-	-	-
Aroclor-1248	33	-	150 J	220 J
Aroclor-1254	33	-	-	-
Aroclor-1260	33	-	-	-
	Dilution Factor:	1	1	1
	Percent Solids:	83	86	88
	Associated Method Blank:	PBLK9034	PBLK9034	PBLK9036
	Associated Equipment Blank:	-	-	-
	Associated Field Blank:	-	-	-

Site: SOIL BORING
#: Level IV Validation

J: Estimated -: Not detected

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/17/93

ANALYTE	CRQL	
Aroclor-1016	33	36 U
Aroclor-1221	67	73 U
Aroclor-1232	33	36 U
Aroclor-1242	33	36 U
Aroclor-1248	33	36 U
Aroclor-1254	33	36 U
Aroclor-1260	33	36 U
Dilution Factor:		1
Percent Solids:		92

Associated Method Blank: PBLK5155
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE
#: Level IV Validation

U: Not detected

Table 2
Validation / Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910 #
DATE SAMPLED: 01/12/93
DATE EXTRACTED: 01/19/93
DATE ANALYZED: 02/17/93

ANALYTE	CRQL	
Aroclor-1016	33	36 U
Aroclor-1221	67	73 U
Aroclor-1232	33	36 U
Aroclor-1242	33	36 U
Aroclor-1248	33	36 U
Aroclor-1254	33	36 U
Aroclor-1260	33	36 U
Dilution Factor:		1
Percent Solids:		92

Associated Method Blank: PBLK5155
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE
#: Level IV Validation

U: Not detected

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Table 3
Summary Table

SAMPLE LOCATION:	GSWTX01XXX92XX
LAB NUMBER:	1541910 #
DATE SAMPLED:	01/12/93
DATE EXTRACTED:	01/19/93
DATE ANALYZED:	02/17/93

ANALYTE	CRQL	
Aroclor-1016	33	-
Aroclor-1221	67	-
Aroclor-1232	33	-
Aroclor-1242	33	-
Aroclor-1248	33	-
Aroclor-1254	33	-
Aroclor-1260	33	-
Dilution Factor:		1
Percent Solids:		92

Associated Method Blank:	PBLK5155
Associated Equipment Blank:	GSQS001XXX92XX
Associated Field Blank:	-

Site: WASTE PILE
#: Level IV Validation

-: Not detected

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Inorganic Aqueous Analysis (ug/L) | 03/03/93

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSMW001X0992XX		GSMW002X0692XX		GSMW105X0992XX	
	LAB NUMBER:	544705 #		544707 #		544706 #	
	DATE SAMPLED:	01/13/93		01/13/93		01/13/93	
ANALYTE	SOW-3/90 - II CRQL						
Aluminum	200	211		138	[]	1680	
Antimony	60	60.0	U	60.0	U	60.0	U
Arsenic	10	5.0	U	5.0	U	5.0	U
Barium	200	283		47.4	[]	78.1	[]
Beryllium	5	1.0	U	1.0	U	1.0	U
Cadmium	5	5.0	U	5.0	U	5.0	U
Calcium	5000	64500		85900		54900	
Chromium	10	7.0	U	7.0	U	7.0	U
Cobalt	50	9.0	U	9.0	U	9.0	U
Copper	25	24.1	[]	8.0	[]	9.4	[]
Iron	100	517		261		2360	
Lead	3	3.0	UN	3.0	UN	3.8	N
Magnesium	5000	152000		25800		21500	
Manganese	15	1720	E	64.3	E	216	E
Mercury	0.2	0.20	U	0.20	U	0.20	U
Nickel	40	72.0	*	39.0	U*	39.0	U*
Potassium	5000	6160		2950	[]	16300	
Selenium	5	5.0	U	5.0	UW	5.0	UW
Silver	10	7.0	U	7.0	U	7.0	U
Sodium	5000	93400		729000		451000	
Thallium	10	15.5	SN	28.4	SN	25.6	SN
Vanadium	50	6.0	UN	6.0	UN	6.0	UN
Zinc	20	6.0	U	29.8		157	
Cyanide	10	10.0	U	10.0	U	10.0	U

Associated Method Blank:	PBGSMWX1	PBGSMWX1	PBGSMWX1
Associated Equipment Blank:	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:	-	-	-

Site: MONITORING WELL *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Inorganic Aqueous Analysis (ug/L) — 03/03/93

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSMW001X0992XX		GSMW002X0692XX		GSMW105X0992XX	
	LAB NUMBER:	544705 #		544707 #		544706 #	
	DATE SAMPLED:	01/13/93		01/13/93		01/13/93	
ANALYTE	SOW-3/90 - II CRQL						
Aluminum	200	211		138	[]	1680	
Antimony	60	60.0	UJ	60.0	UJ	60.0	UJ
Arsenic	10	5.0	U	5.0	U	5.0	U
Barium	200	283		47.4	[]	78.1	[]
Beryllium	5	1.0	U	1.0	U	1.0	U
Cadmium	5	5.0	U	5.0	U	5.0	U
Calcium	5000	64500		85900		54900	
Chromium	10	7.0	U	7.0	U	7.0	U
Cobalt	50	9.0	U	9.0	U	9.0	U
Copper	25	24.1	[]	8.0	[]	9.4	[]
Iron	100	517		261		2360	
Lead	3	3.0	UJ	3.0	UJ	3.8	J
Magnesium	5000	152000		25800		21500	
Manganese	15	1720	R	64.3	R	216	R
Mercury	0.2	0.20	U	0.20	U	0.20	U
Nickel	40	72.0		39.0	U	39.0	U
Potassium	5000	6160		2950	[]	16300	
Selenium	5	5.0	U	5.0	U	5.0	U
Silver	10	7.0	U	7.0	U	7.0	U
Sodium	5000	93400		729000		451000	
Thallium	10	15.5	J	28.4	J	25.6	J
Vanadium	50	6.0	UJ	6.0	UJ	6.0	UJ
Zinc	20	6.0	U	29.8		157	
Cyanide	10	10.0	U	10.0	U	10.0	U

Associated Method Blank:	PBGSMWX1	PBGSMWX1	PBGSMWX1
Associated Equipment Blank:	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:	-	-	-

Site: MONITORING WELL *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Inorganic Aqueous Analysis (ug/L) | 03/03/93

Table 3
Summary Table

SAMPLE LOCATION:		GSMW001X0992XX		GSMW002X0692XX		GSMW105X0992XX		
LAB NUMBER:		544705 #		544707 #		544706 #		
DATE SAMPLED:		01/13/93		01/13/93		01/13/93		
ANALYTE	SOW-3/90 - II CRQL							
Aluminum	200	211		138	[]	1680		
Antimony	60	-		-		-		
Arsenic	10	-		-		-		
Barium	200	283		47.4	[]	78.1	[]	
Beryllium	5	-		-		-		
Cadmium	5	-		-		-		
Calcium	5000	64500		85900		54900		
Chromium	10	-		-		-		
Cobalt	50	-		-		-		
Copper	25	24.1	[]	8.0	[]	9.4	[]	
Iron	100	517		261		2360		
Lead	3	-		-		3.8	J	
Magnesium	5000	152000		25800		21500		
Manganese	15		R		R		R	
Mercury	0.2	-		-		-		
Nickel	40	72.0		-		-		
Potassium	5000	6160		2950	[]	16300		
Selenium	5	-		-		-		
Silver	10	-		-		-		
Sodium	5000	93400		729000		451000		
Thallium	10	15.5	J	28.4	J	25.6	J	
Vanadium	50	-		-		-		
Zinc	20	-		29.8		157		
Cyanide	10	-		-		-		
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		
Associated Equipment Blank:		GSQS003XXX92XX		GSQS003XXX92XX		GSQS003XXX92XX		
Associated Field Blank:		-		-		-		

Site: MONITORING WELL *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Inorganic Aqueous Analysis (ug/L) | 03/03/93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSSW002XXX92XD		GSSW002XXX92XX		GSSW003XXX92XX		GSSW004XXX92XX		GSSW005XXX92XX		GSSW006XXX92XX	
LAB NUMBER:	544704 #		544701 #		544709 #		544710 #		544711 #		544712 #	
DATE SAMPLED:	01/13/93		01/13/93		01/13/93		01/13/93		01/13/93		01/13/93	
ANALYTE	SOW-3/90 - II CRQL											
Aluminum	200	177	[]	228		626		389		171	[]	286	
Antimony	60	116		70.2		60.0	U	61.4		60.0	U	60.0	U
Arsenic	10	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Barium	200	528		544		35.8	[]	46.1	[]	41.0	[]	48.7	[]
Beryllium	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	5	5.0	U	5.0	U	5.0	U	7.2		5.0	U	5.0	U
Calcium	5000	58000		59900		43900		43500		49100		20600	
Chromium	10	11.3		13.8		50.7		7.0	U	7.0	U	41.9	
Cobalt	50	21.3	[]	11.5	[]	9.0	U	9.8	[]	9.0	U	9.0	U
Copper	25	26.7		28.1		8.0	[]	10.7	[]	5.0	U	5.0	U
Iron	100	5420		5720		781		1460		1210		145	
Lead	3	3.8	N	4.4	WN	3.0	UWN	3.0	UN	5.3	N	3.0	UN
Magnesium	5000	155000		162000		28000		104000		19900		43000	
Manganese	15	2340	E	2320	E	306	E	492	E	263	E	35.0	E
Mercury	0.2	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	40	39.0	U*	74.4	*	50.4	*	74.4	*	39.0	U*	39.0	U*
Potassium	5000	9870		9650		7590		8370		8130		3090	[]
Selenium	5	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	UW
Silver	10	7.0	U	7.0	U	7.0	U	7.0	U	7.0	U	7.0	U
Sodium	5000	45100		46900		279000		33700		361000		323000	
Thallium	10	10.5	+N	9.0	[]N	8.1	[]N	5.2	[]N	5.0	UN	8.8	[]N
Vanadium	50	6.0	UN	6.0	UN	6.0	UN	6.0	UN	6.0	UN	37.8	[]N
Zinc	20	8.2	[]	9.2	[]	30.8		7.2	[]	6.0	U	6.0	U
Cyanide	10	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1	
Associated Equipment Blank:		GSQS003XXX92XX		GSQS003XXX92XX		GSQS003XXX92XX		GSQS003XXX92XX		GSQS003XXX92XX		GSQS003XXX92XX	
Associated Field Blank:		-		-		-		-		-		-	

Site: SURFACE WATER *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
	LAB NUMBER:	544704 #	544701 #	544709 #	544710 #	544711 #	544712 #
	DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
ANALYTE	SOW-3/90 - II CRQL						
Aluminum	200	177 []	228	626	389	171 []	286
Antimony	60	116 J	70.2 J	60.0 UJ	61.4 J	60.0 UJ	60.0 UJ
Arsenic	10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Barium	200	528	544	35.8 []	46.1 []	41.0 []	48.7 []
Beryllium	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	5	5.0 U	5.0 U	5.0 U	7.2 J	5.0 U	5.0 U
Calcium	5000	58000	59900	43900	43500	49100	20600
Chromium	10	11.3	13.8	50.7	7.0 U	7.0 U	41.9
Cobalt	50	21.3 []	11.5 []	9.0 U	9.8 []	9.0 U	9.0 U
Copper	25	26.7	28.1	8.0 []	10.7 []	5.0 U	5.0 U
Iron	100	5420	5720	781	1460	1210	145
Lead	3	3.8 J	4.4 J	3.0 UJ	3.0 UJ	5.3 J	3.0 UJ
Magnesium	5000	155000	162000	28000	104000	19900	43000
Manganese	15	2340 R	2320 R	306 R	492 R	263 R	35.0 R
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	40	39.0 U	74.4	50.4	74.4	39.0 U	39.0 U
Potassium	5000	9870	9650	7590	8370	8130	3090 []
Selenium	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	10	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U
Sodium	5000	45100	46900	279000	33700	361000	323000
Thallium	10	10.5 J	9.0 []J	8.1 []J	5.2 []J	5.0 UJ	8.8 []J
Vanadium	50	6.0 UJ	6.0 UJ	6.0 UJ	6.0 UJ	6.0 UJ	37.8 []J
Zinc	20	8.2 []	9.2 []	30.8	7.2 []	6.0 U	6.0 U
Cyanide	10	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Associated Method Blank:		PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1
Associated Equipment Blank:		GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:		-	-	-	-	-	-

Site: SURFACE WATER *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 3
Summary Table

	SAMPLE LOCATION:	GSSW002XXX92XD		GSSW002XXX92XX		GSSW003XXX92XX		GSSW004XXX92XX		GSSW005XXX92XX		GSSW006XXX92XX	
	LAB NUMBER:	544704 #		544701 #		544709 #		544710 #		544711 #		544712 #	
	DATE SAMPLED:	01/13/93		01/13/93		01/13/93		01/13/93		01/13/93		01/13/93	
ANALYTE	SOW-3/90 - II CRQL												
Aluminum	200	177	[]	228		626		389		171	[]	286	
Antimony	60	116	J	70.2	J	-		61.4	J	-		-	
Arsenic	10	-		-		-		-		-		-	
Barium	200	528		544		35.8	[]	46.1	[]	41.0	[]	48.7	[]
Beryllium	5	-		-		-		-		-		-	
Cadmium	5	-		-		-		7.2	J	-		-	
Calcium	5000	58000		59900		43900		43500		49100		20600	
Chromium	10	11.3		13.8		50.7		-		-		41.9	
Cobalt	50	21.3	[]	11.5	[]	-		9.8	[]	-		-	
Copper	25	26.7		28.1		8.0	[]	10.7	[]	-		-	
Iron	100	5420		5720		781		1460		1210		145	
Lead	3	3.8	J	4.4	J	-		-		5.3	J	-	
Magnesium	5000	155000		162000		28000		104000		19900		43000	
Manganese	15		R		R		R		R		R		R
Mercury	0.2	-		-		-		-		-		-	
Nickel	40	-		74.4		50.4		74.4		-		-	
Potassium	5000	9870		9650		7590		8370		8130		3090	[]
Selenium	5	-		-		-		-		-		-	
Silver	10	-		-		-		-		-		-	
Sodium	5000	45100		46900		279000		33700		361000		323000	
Thallium	10	10.5	J	9.0	[]J	8.1	[]J	5.2	[]J	-		8.8	[]J
Vanadium	50	-		-		-		-		-		37.8	[]J
Zinc	20	8.2	[]	9.2	[]	30.8		7.2	[]	-		-	
Cyanide	10	-		-		-		-		-		-	

Associated Method Blank:	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1
Associated Equipment Blank:	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:	-	-	-	-	-	-

Site: SURFACE WATER *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		GSQS001XXX92XX		GSQS003XXX92XX		
LAB NUMBER:		541911		544708		
DATE SAMPLED:		01/12/93		01/13/93		
ANALYTE	SOW-3/90 - II CRQL					
Aluminum	200	65.6	[]	70.6	[]	
Antimony	60	60.0	U	60.0	U	
Arsenic	10	5.0	U	5.0	U	
Barium	200	20.0	U	20.0	U	
Beryllium	5	1.0	U	1.0	U	
Cadmium	5	5.0	U	5.4		
Calcium	5000	487	[]	344	U	
Chromium	10	7.0	U	7.0	U	
Cobalt	50	9.0	U	9.0	U	
Copper	25	22.4	[]	5.0	U	
Iron	100	75.2	[]	35.6	[]	
Lead	3	3.2	N	3.0	N	
Magnesium	5000	706	U	706	U	
Manganese	15	38.7	E	1.0	UE	
Mercury	0.2	0.20	U	0.20	U	
Nickel	40	50.5	*	39.0	U*	
Potassium	5000	1040	U	1040	U	
Selenium	5	5.0	U	5.0	U	
Silver	10	7.0	U	7.0	U	
Sodium	5000	679	U	679	U	
Thallium	10	8.3	[]N	5.0	UN	
Vanadium	50	9.0	[]N	6.0	UN	
Zinc	20	14.1	[]	6.2	[]	
Cyanide	10	10.0	U	10.0	U	
Associated Method Blank:		PBGSMWX1		PBGSMWX1		
Associated Equipment Blank:		-		-		
Associated Field Blank:		-		-		

Site: EQUIPMENT RINSATE *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met
J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions

T6

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Inorganic Soil Analysis (mg/kg) — 03/03/93

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSSD002XXX92XD LAB NUMBER: 544715 # DATE SAMPLED: 01/13/93		SAMPLE LOCATION: GSSD002XXX92XX LAB NUMBER: 544713 # DATE SAMPLED: 01/13/93		SAMPLE LOCATION: GSSD003XXX92XX LAB NUMBER: 544714 # DATE SAMPLED: 01/13/93		SAMPLE LOCATION: GSSD004XXX92XX LAB NUMBER: 544716 # DATE SAMPLED: 01/13/93		SAMPLE LOCATION: GSSD005XXX92XX LAB NUMBER: 544718 # DATE SAMPLED: 01/13/93		SAMPLE LOCATION: GSSD006XXX92XX LAB NUMBER: 544717 # DATE SAMPLED: 01/13/93	
Aluminum	40	20700		17200		18800		16300		22500		30000	
Antimony	12	32.6	N*	22.8	N*	32.3	N*	55.8	N*	19.5	UN*	32.5	N*
Arsenic	2	5.5	SN	3.8	N	8.7	SN	13.7	N	4.3	N	4.0	N
Barium	40	102	*	111	*	230	*	594	*	142	*	267	*
Beryllium	1	0.98	[]	0.61	[]	1.1	[]	1.3	[]	0.89	[]	7.1	
Cadmium	1	1.6	UN	1.8	UN	1.4	UN	1.7	UN	1.6	UN	1.5	UN
Calcium	1000	7400		11800		16800		61600		34400		167000	
Chromium	2	25.6		29.3		30.0		511		29.1		3150	
Cobalt	10	6.2	[]N*	10.5	[]N*	12.2	[]N*	175	N*	8.5	[]N*	51.9	N*
Copper	5	11.5		25.6		36.7		207		20.4		327	
Iron	20	32000		25000		31800		46900		24400		20400	
Lead	0.6	28.1	S*	31.3	+*	38.0	S*	60.2	*	45.9	S*	42.0	*
Magnesium	1000	6940		7550		11700		36500		20400		39900	
Manganese	3	260		372		4990		9940		557		2470	
Mercury	0.04	0.16	U	0.18	U	0.17		0.17	U	0.16	U	0.15	U
Nickel	8	22.9	*	40.0	*	28.8	*	1370	*	21.1	*	669	*
Potassium	1000	1760		1300	[]	1860		1090	[]	2390		836	[]
Selenium	1	1.6	UN	1.8	UN	1.4	UN	1.7	UWN	1.6	UWN	1.5	UWN
Silver	2	2.2	UN	2.5	UN	2.0	UN	2.3	UN	2.3	UN	2.1	UN
Sodium	1000	579	[]	682	[]	395	[]	292	[]	2010		1360	[]
Thallium	2	2.0	[]	1.8	[]W	1.6	[]W	1.7	UW	5.3		1.5	U
Vanadium	10	33.5	N*	25.6	N*	34.7	N*	52.1	N*	33.2	N*	978	N*
Zinc	4	439	N*	345	N*	702	N*	270	N*	386	N*	280	N*
Cyanide	2	0.79	U	0.97	U	0.75	U	1.0	U	1.0	U	0.71	U
Percent Solids:		63		56		70		60		62		68	
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-		-		-		-	

Site: SEDIMENT *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Inorganic Soil Analysis (mg/kg) | 03/03/93

Table 2
Validation / Summary Table

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSSD002XXX92XD LAB NUMBER: 544715 # DATE SAMPLED: 01/13/93		GSSD002XXX92XX 544713 # 01/13/93		GSSD003XXX92XX 544714 # 01/13/93		GSSD004XXX92XX 544716 # 01/13/93		GSSD005XXX92XX 544718 # 01/13/93		GSSD006XXX92XX 544717 # 01/13/93	
Aluminum	40	20700		17200		18800		16300		22500		30000	
Antimony	12	32.6	J	22.8	J	32.3	J	55.8	J	19.5	UJ	32.5	J
Arsenic	2	5.5	J	3.8	J	8.7	J	13.7	J	4.3	J	4.0	J
Barium	40	102		111		230		594		142		267	
Beryllium	1	0.98	[]	0.61	[]	1.1	[]	1.3	[]	0.89	[]	7.1	
Cadmium	1	1.6	UR	1.8	UR	1.4	UR	1.7	UR	1.6	UR	1.5	UR
Calcium	1000	7400		11800		16800		61600		34400		167000	
Chromium	2	25.6		29.3		30.0		511		29.1		3150	
Cobalt	10	6.2	[]R	10.5	[]R	12.2	[]R	175	R	8.5	[]R	51.9	R
Copper	5	11.5	J	25.6	J	36.7		207		20.4		327	
Iron	20	32000		25000		31800		46900		24400		20400	
Lead	0.6	28.1	R	31.3		38.0		60.2		45.9		42.0	
Magnesium	1000	6940		7550		11700		36500		20400		39900	
Manganese	3	260		372		4990		9940		557		2470	
Mercury	0.04	0.16	U	0.18	U	0.17		0.17	U	0.16	U	0.15	U
Nickel	8	22.9	J	40.0	J	28.8		1370		21.1		669	
Potassium	1000	1760		1300	[]	1860		1090	[]	2390		836	[]
Selenium	1	1.6	UJ	1.8	UJ	1.4	UJ	1.7	UJ	1.6	UJ	1.5	UJ
Silver	2	2.2	UJ	2.5	UJ	2.0	UJ	2.3	UJ	2.3	UJ	2.1	UJ
Sodium	1000	579	[]	682	[]	395	[]	292	[]	2010		1360	[]
Thallium	2	2.0	[]	1.8	[]	1.6	[]	1.7	U	5.3		1.5	U
Vanadium	10	33.5	J	25.6	J	34.7	J	52.1	J	33.2	J	978	J
Zinc	4	439	J	345	J	702	J	270	J	386	J	280	J
Cyanide	2	0.79	U	0.97	U	0.75	U	1.0	U	1.0	U	0.71	U
Percent Solids:		63		56		70		60		62		68	
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-		-		-		-	

Site: SEDIMENT *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 3
Summary Table

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSSD002XXX92XD LAB NUMBER: 544715 # DATE SAMPLED: 01/13/93		GSSD002XXX92XX 544713 # 01/13/93		GSSD003XXX92XX 544714 # 01/13/93		GSSD004XXX92XX 544716 # 01/13/93		GSSD005XXX92XX 544718 # 01/13/93		GSSD006XXX92XX 544717 # 01/13/93	
Aluminum	40	20700		17200		18800		16300		22500		30000	
Antimony	12	32.6	J	22.8	J	32.3	J	55.8	J	-		32.5	J
Arsenic	2	5.5	J	3.8	J	8.7	J	13.7	J	4.3	J	4.0	J
Barium	40	102		111		230		594		142		267	
Beryllium	1	0.98	[]	0.61	[]	1.1	[]	1.3	[]	0.89	[]	7.1	
Cadmium	1		R		R		R		R		R		R
Calcium	1000	7400		11800		16800		61600		34400		167000	
Chromium	2	25.6		29.3		30.0		511		29.1		3150	
Cobalt	10		R		R		R		R		R		R
Copper	5	11.5	J	25.6	J	36.7		207		20.4		327	
Iron	20	32000		25000		31800		46900		24400		20400	
Lead	0.6		R	31.3		38.0		60.2		45.9		42.0	
Magnesium	1000	6940		7550		11700		36500		20400		39900	
Manganese	3	260		372		4990		9940		557		2470	
Mercury	0.04	-		-		0.17		-		-		-	
Nickel	8	22.9	J	40.0	J	28.8		1370		21.1		669	
Potassium	1000	1760		1300	[]	1860		1090	[]	2390		836	[]
Selenium	1	-		-		-		-		-		-	
Silver	2	-		-		-		-		-		-	
Sodium	1000	579	[]	682	[]	395	[]	292	[]	2010		1360	[]
Thallium	2	2.0	[]	1.8	[]	1.6	[]	-		5.3		-	
Vanadium	10	33.5	J	25.6	J	34.7	J	52.1	J	33.2	J	978	J
Zinc	4	439	J	345	J	702	J	270	J	386	J	280	J
Cyanide	2	-		-		-		-		-		-	
Percent Solids:		63		56		70		60		62		68	
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-		-		-		-	

Site: SEDIMENT *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Inorganic Soil Analysis (mg/kg) | 03/03/93

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSPS101X0292XD		GSPS101X0292XX		GSPS102X0192XX		GSPS103X0492XX		GSPS104X0292XX		GSPS105X0292XX		GSPS106X0292XX	
		LAB NUMBER: 541904 #		541901 #		541909 #		541905 #		541908 #		541907 #		541906 #	
		DATE SAMPLED: 01/12/93		01/12/93		01/12/93		01/12/93		01/12/93		01/12/93		01/12/93	
Aluminum	40	29200		31700		10300		25000		26800		9610		16400	
Antimony	12	14.3	UN*	50.7	N*	13.7	UN*	45.2	N*	62.8	N*	129	N*	41.7	N*
Arsenic	2	9.1	N	8.2	N	1.9	[]N	5.3	N	6.2	N	15.1	N	9.2	N
Barium	40	450	*	505	*	24.6	[]*	360	*	247	*	171	*	430	*
Beryllium	1	2.5		2.2		0.46	[]	3.0		2.1		6.0		2.3	
Cadmium	1	1.2	UN	1.2	UN	1.1	UN	1.3	UN	1.2	UN	1.5	UN	1.3	UN
Calcium	1000	88400		104000		11300		90900		87300		35200		35300	
Chromium	2	2060		1690		54.1		2020		1880		4360		1480	
Cobalt	10	1140	N*	411	N*	15.1	N*	505	N*	677	N*	4080	N*	783	N*
Copper	5	5240		891		1060		922		2330		4720		823	
Iron	20	95500		35000		9460		40000		52800		206000		54400	
Lead	0.6	344	N*	303	S*	124	N*	301	N*	334	N*	269	N*	273	N*
Magnesium	1000	32900		41500		16800		48100		39600		6200		15900	
Manganese	3	21900		4280		361		3830		9440		15900		2350	
Mercury	0.04	0.12		0.12	U	0.11	U	0.13	U	0.12	U	0.15	U	0.13	U
Nickel	8	38100	*	4840	*	270	*	4200	*	7120	*	13500	*	3930	*
Potassium	1000	778	[]	809	[]	327	[]	825	[]	1310		318	[]	1420	
Selenium	1	1.2	UWN	1.7	SN	1.1	UN	1.3	UWN	1.2	UN	1.5	UN	1.3	UN
Silver	2	1.7	UN	1.7	UN	1.6	UN	1.8	UN	1.7	UN	2.1	UN	1.8	UN
Sodium	1000	447	[]	499	[]	427	[]	627	[]	658	[]	283	[]	539	[]
Thallium	2	1.2	UW	1.2	UW	1.4	[]	1.3	UW	1.2	UW	2.0	[]W	1.3	[]
Vanadium	10	319	N*	283	N*	101	N*	383	N*	237	N*	892	N*	271	N*
Zinc	4	366	N*	324	N*	578	N*	374	N*	574	N*	315	N*	345	N*
Cyanide	2	0.68	U	0.60	U	0.69	U	0.45	U	0.46	U	0.71	U	0.44	U
Percent Solids:		84		83		88		77		83		66		79	
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-		-		-		-		-	

Site: TEST PIT SOIL *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Inorganic Soil Analysis (mg/kg) | 03/03/93

Table 2
Validation / Summary Table

ANALYTE	SOW-3/90 - II CRQL	SAMPLE LOCATION: GSPS101X0292XD		GSPS101X0292XX		GSPS102X0192XX		GSPS103X0492XX		GSPS104X0292XX		GSPS105X0292XX		GSPS106X0292XX	
		LAB NUMBER: 541904 #		541901 #		541909 #		541905 #		541908 #		541907 #		541906 #	
		DATE SAMPLED: 01/12/93		01/12/93		01/12/93		01/12/93		01/12/93		01/12/93		01/12/93	
Aluminum	40	29200		31700		10300		25000		26800		9610		16400	
Antimony	12	14.3	UJ	50.7	J	13.7	UJ	45.2	J	62.8	J	129	J	41.7	J
Arsenic	2	9.1	J	8.2	J	1.9	[]J	5.3	J	6.2	J	15.1	J	9.2	J
Barium	40	450		505		24.6	[]	360		247		171		430	
Beryllium	1	2.5		2.2		0.46	[]	3.0		2.1		6.0		2.3	
Cadmium	1	1.2	UR	1.2	UR	1.1	UR	1.3	UR	1.2	UR	1.5	UR	1.3	UR
Calcium	1000	88400		104000		11300		90900		87300		35200		35300	
Chromium	2	2060		1690		54.1		2020		1880		4360		1480	
Cobalt	10	1140	R	411	R	15.1	R	505	R	677	R	4080	R	783	R
Copper	5	5240	J	891	J	1060		922		2330		4720		823	
Iron	20	95500		35000		9460		40000		52800		206000		54400	
Lead	0.6	344	J	303	J	124	J	301	J	334	J	269	J	273	J
Magnesium	1000	32900		41500		16800		48100		39600		6200		15900	
Manganese	3	21900	J	4280	J	361		3830		9440		15900		2350	
Mercury	0.04	0.12		0.12	U	0.11	U	0.13	U	0.12	U	0.15	U	0.13	U
Nickel	8	38100	J	4840	J	270		4200		7120		13500		3930	
Potassium	1000	778	[]	809	[]	327	[]	825	[]	1310		318	[]	1420	
Selenium	1	1.2	UJ	1.7	J	1.1	UJ	1.3	UJ	1.2	UJ	1.5	UJ	1.3	UJ
Silver	2	1.7	UJ	1.7	UJ	1.6	UJ	1.8	UJ	1.7	UJ	2.1	UJ	1.8	UJ
Sodium	1000	447	[]	499	[]	427	[]	627	[]	658	[]	283	[]	539	[]
Thallium	2	1.2	U	1.2	U	1.4	[]	1.3	U	1.2	U	2.0	[]	1.3	[]
Vanadium	10	319	J	283	J	101	J	383	J	237	J	892	J	271	J
Zinc	4	366	J	324	J	578	J	374	J	574	J	315	J	345	J
Cyanide	2	0.68	U	0.60	U	0.69	U	0.45	U	0.46	U	0.71	U	0.44	U
Percent Solids:		84		83		88		77		83		66		79	
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-		-		-		-		-	

Site: TEST PIT SOIL *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel

Inorganic Soil Analysis (mg/kg)

03/03/93

Table 3
Summary Table

		SAMPLE LOCATION:	GSBS101X0492XX		GSBS104X0692XX		GSBS105X0292XX	
		LAB NUMBER:	456501 #		456502 #		456503 #	
		DATE SAMPLED:	10/28/92		10/28/92		10/28/92	
ANALYTE	SOW-3/90 - II CRQL							
Aluminum	40		9180	J	39300	J	35900	J
Antimony	12		-		34.0	J	21.0	J
Arsenic	2		3.9		6.4		8.6	
Barium	40		52.4		438		382	
Beryllium	1		0.55	[]	5.5		4.5	
Cadmium	1		-		-		-	
Calcium	1000		2080		125000		106000	
Chromium	2		14.9	J	1690	J	1690	J
Cobalt	10		8.0	[]	182		245	
Copper	5		12.3	J	359	J	3450	J
Iron	20		17500		31500		37700	
Lead	0.6			R	186		218	
Magnesium	1000		3120		48200		37900	
Manganese	3		614		3680		10400	
Mercury	0.04		-		0.22	J	-	
Nickel	8		17.2		3130		7350	
Potassium	1000		1120	[]	826	[]	698	[]
Selenium	1		-		2.9		1.2	
Silver	2		-		-		-	
Sodium	1000		203	[]	596	[]	549	[]
Thallium	2		-		-		-	
Vanadium	10		20.6		696		578	
Zinc	4		130	J	173	J	231	J
Cyanide	2		-		-		-	
Percent Solids:			83		86		88	
Associated Method Blank:			PB801S		PB801S		PB801S	
Associated Equipment Blank:			GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:			-		-		-	

Site: SOIL BORING *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSBS101X0492XX		GSBS104X0692XX		GSBS105X0292XX	
	LAB NUMBER:	456501 #		456502 #		456503 #	
	DATE SAMPLED:	10/28/92		10/28/92		10/28/92	
ANALYTE	SOW-3/90 - II CRQL						
Aluminum	40	9180	E	39300	E	35900	E
Antimony	12	9.4	U*	34.0	*	21.0	*
Arsenic	2	3.9	*	6.4	*	8.6	*
Barium	40	52.4		438		382	
Beryllium	1	0.55	[]	5.5		4.5	
Cadmium	1	0.73	U	0.69	U	0.69	U
Calcium	1000	2080		125000		106000	
Chromium	2	14.9		1690		1690	
Cobalt	10	8.0	[]	182		245	
Copper	5	12.3		359		3450	
Iron	20	17500		31500		37700	
Lead	0.6	7.5	SN*	186		218	
Magnesium	1000	3120		48200		37900	
Manganese	3	614		3680		10400	
Mercury	0.04	0.12	UN	0.22	N	0.11	UN
Nickel	8	17.2		3130		7350	
Potassium	1000	1120	[]	826	[]	698	[]
Selenium	1	1.2	U	2.9	+	1.2	
Silver	2	0.97	UN	0.93	UN	0.91	UN
Sodium	1000	203	[]	596	[]	549	[]
Thallium	2	1.2	U	1.2	U	1.1	U
Vanadium	10	20.6		696		578	
Zinc	4	130	N	173	N	231	N
Cyanide	2	0.55	U	0.55	U	0.56	U
Percent Solids:		83		86		88	
Associated Method Blank:		PB801S		PB801S		PB801S	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-	

Site: SOIL BORING *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Inorganic Soil Analysis (mg/kg) | 03/03/93

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX		GSBS104X0692XX		GSBS105X0292XX	
	LAB NUMBER:	456501 #		456502 #		456503 #	
	DATE SAMPLED:	10/28/92		10/28/92		10/28/92	
ANALYTE	SOW-3/90 - II CRQL						
Aluminum	40	9180	J	39300	J	35900	J
Antimony	12	9.4	UJ	34.0	J	21.0	J
Arsenic	2	3.9		6.4		8.6	
Barium	40	52.4		438		382	
Beryllium	1	0.55	[]	5.5		4.5	
Cadmium	1	0.73	U	0.69	U	0.69	U
Calcium	1000	2080		125000		106000	
Chromium	2	14.9	J	1690	J	1690	J
Cobalt	10	8.0	[]	182		245	
Copper	5	12.3	J	359	J	3450	J
Iron	20	17500		31500		37700	
Lead	0.6	7.5	R	186		218	
Magnesium	1000	3120		48200		37900	
Manganese	3	614		3680		10400	
Mercury	0.04	0.12	U	0.22	J	0.11	U
Nickel	8	17.2		3130		7350	
Potassium	1000	1120	[]	826	[]	698	[]
Selenium	1	1.2	U	2.9		1.2	
Silver	2	0.97	UJ	0.93	UJ	0.91	UJ
Sodium	1000	203	[]	596	[]	549	[]
Thallium	2	1.2	U	1.2	U	1.1	U
Vanadium	10	20.6		696		578	
Zinc	4	130	J	173	J	231	J
Cyanide	2	0.55	U	0.55	U	0.56	U
Percent Solids:		83		86		88	
Associated Method Blank:		PB801S		PB801S		PB801S	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-	

Site: SOIL BORING *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 3
Summary Table

SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
LAB NUMBER:	541904 #	541901 #	541909 #	541905 #	541908 #	541907 #	541906 #
DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93

ANALYTE	SOW-3/90 - II CRQL													
Aluminum	40	29200		31700		10300		25000		26800		9610		16400	
Antimony	12	-		50.7	J	-		45.2	J	62.8	J	129	J	41,0	J
Arsenic	2	9.1	J	8.2	J	1.9	[]J	5.3	J	6.2	J	15.1	J	9.2	J
Barium	40	450		505		24.6	[]	360		247		171		430	
Beryllium	1	2.5		2.2		0.46	[]	3.0		2.1		6.0		2.3	
Cadmium	1		R		R		R		R		R		R		R
Calcium	1000	88400		104000		11300		90900		87300		35200		35300	
Chromium	2	2060		1690		54.1		2020		1880		4360		1480	
Cobalt	10		R		R		R		R		R		R		R
Copper	5	5240	J	891	J	1060		922		2330		4720		823	
Iron	20	95500		35000		9460		40000		52800		206000		54400	
Lead	0.6	344	J	303	J	124	J	301	J	334	J	269	J	273	J
Magnesium	1000	32900		41500		16800		48100		39600		6200		15900	
Manganese	3	21900	J	4280	J	361		3830		9440		15900		2350	
Mercury	0.04	0.12		-		-		-		-		-		-	
Nickel	8	38100	J	4840	J	270		4200		7120		13500		3930	
Potassium	1000	778	[]	809	[]	327	[]	825	[]	1310		318	[]	1420	
Selenium	1	-		1.7	J	-		-		-		-		-	
Silver	2	-		-		-		-		-		-		-	
Sodium	1000	447	[]	499	[]	427	[]	627	[]	658	[]	283	[]	539	[]
Thallium	2	-		-		1.4	[]	-		-		2.0	[]	1.3	[]
Vanadium	10	319	J	283	J	101	J	383	J	237	J	892	J	271	J
Zinc	4	366	J	324	J	578	J	374	J	574	J	315	J	345	J
Cyanide	2	-		-		-		-		-		-		-	
Percent Solids:		84		83		88		77		83		66		79	
Associated Method Blank:		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1		PBGSMWX1	
Associated Equipment Blank:		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX		GSQS001XXX92XX	
Associated Field Blank:		-		-		-		-		-		-		-	

Site: TEST PIT SOIL *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 541910 #
DATE SAMPLED: 01/12/93

ANALYTE	SOW-3/90 - II CRQL		
Aluminum	40	16200	
Antimony	12	13.0	UN*
Arsenic	2	1.1	UN
Barium	40	27.9	[]*
Beryllium	1	0.22	U
Cadmium	1	1.1	UN
Calcium	1000	3700	
Chromium	2	495	
Cobalt	10	84.8	N*
Copper	5	66000	
Iron	20	7040	
Lead	0.6	4.5	S*
Magnesium	1000	153	U
Manganese	3	530000	
Mercury	0.04	0.11	U
Nickel	8	39800	*
Potassium	1000	227	U
Selenium	1	1.1	UN
Silver	2	65.7	N
Sodium	1000	7270	
Thallium	2	9.0	
Vanadium	10	1.3	UN*
Zinc	4	321	N*
Cyanide	2	3.3	
Percent Solids:		92	

Associated Method Blank: PBGSMWX1
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 2
Validation / Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 541910 #
DATE SAMPLED: 01/12/93

ANALYTE	SOW-3/90 - II CRQL		
Aluminum	40	16200	
Antimony	12	13.0	UJ
Arsenic	2	1.1	UJ
Barium	40	27.9	[]
Beryllium	1	0.22	U
Cadmium	1	1.1	UR
Calcium	1000	3700	
Chromium	2	495	
Cobalt	10	84.8	R
Copper	5	66000	
Iron	20	7040	
Lead	0.6	4.5	
Magnesium	1000	153	U
Manganese	3	530000	
Mercury	0.04	0.11	U
Nickel	8	39800	
Potassium	1000	227	U
Selenium	1	1.1	UJ
Silver	2	65.7	J
Sodium	1000	7270	
Thallium	2	9.0	
Vanadium	10	1.3	U
Zinc	4	321	J
Cyanide	2	3.3	
Percent Solids:		92	

Associated Method Blank: PBGSMWX1
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

Table 3
Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 541910 #
DATE SAMPLED: 01/12/93

ANALYTE	SOW-3/90 - II CRQL		
Aluminum	40	16200	
Antimony	12	-	
Arsenic	2	-	
Barium	40	27.9	[]
Beryllium	1	-	
Cadmium	1		R
Calcium	1000	3700	
Chromium	2	495	
Cobalt	10		R
Copper	5	66000	
Iron	20	7040	
Lead	0.6	4.5	
Magnesium	1000	-	
Manganese	3	530000	
Mercury	0.04	-	
Nickel	8	39800	
Potassium	1000	-	
Selenium	1	-	
Silver	2	65.7	J
Sodium	1000	7270	
Thallium	2	9.0	
Vanadium	10	-	
Zinc	4	321	J
Cyanide	2	3.3	
Percent Solids:		92	

Associated Method Blank: PBGSMWX1
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE *: Duplicate analysis not met +: Coefficient <0.995 []: Less than CRQL
#: Level IV Validation J: Estimated -: Not detected M: Duplicate injection precision not met S: Method of standard additions
U: Not detected R: Unusable E: Interference N: Spike recovery not met W: Post digestion spike not met

PROJECT: Nysdec PSA-6 Guterl Specialty Steel Miscellaneous Soil Analysis (ug/L) 03-Mar-93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X1292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
LAB NUMBER:	541904	541901	541909	541905	541908	541907	541906
DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
ANALYTE	RL						
Arsenic	66.8	66.8 U	66.8 U	66.8 U	66.8 U	66.8 U	66.8 U	66.8 U
Barium	20.0	1280 N	1560 N	453 N	1020 N	732 N	770 N	1420 N
Cadmium	4.6	4.6 U	7.8	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U
Chromium	6.8	16.5	41.0	6.8 U	17.7	20.3	6.8 U	6.8 U
Lead	42.0	42.0 U	54.8	42.0 U	42.0 U	42.0 U	42.0 U	42.0 U
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Selenium	80.1	80.1 U	81.7	80.1 U	80.1 U	80.1 U	80.1 U	80.1 U
Silver	7.4	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U

Associated Method Blank:	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1
Associated Equipment Blank:	-	-	-	-	-	-	-
Associated Field Blank:	-	-	-	-	-	-	-

Site: TEST PIT SOIL
Note: EPTOX ANALYSIS

U: Not detected N: Spike recovery not met

PROJECT: Nysdec PSA-6 Guterl Specialty Steel Miscellaneous Soil Analysis (ug/L) 03-Mar-93

Table 2
Validation / Summary Table

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X1292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
	LAB NUMBER:	541904	541901	541909	541905	541908	541907	541906
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
ANALYTE	RL							
Arsenic	66.8	66.8 U	66.8 U	66.8 U	66.8 U	66.8 U	66.8 U	66.8 U
Barium	20.0	1280 J	1560 J	453 J	1020 J	732 J	770 J	1420 J
Cadmium	4.6	4.6 U	7.8	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U
Chromium	6.8	16.5 J	41.0 J	6.8 U	17.7	20.3	6.8 U	6.8 U
Lead	42.0	42.0 U	54.8	42.0 U	42.0 U	42.0 U	42.0 U	42.0 U
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Selenium	80.1	80.1 U	81.7	80.1 U	80.1 U	80.1 U	80.1 U	80.1 U
Silver	7.4	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
Associated Method Blank:		PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1
Associated Equipment Blank:		-	-	-	-	-	-	-
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
Note: EPTOX ANALYSIS

U: Not detected J: Estimated

PROJECT: Nysdec PSA-6 Guterl Specialty Steel Miscellaneous Soil Analysis (ug/L) 03-Mar-93

Table 3
Summary Table

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X1292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
	LAB NUMBER:	541904	541901	541909	541905	541908	541907	541906
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
ANALYTE	RL							
Arsenic	66.8	-	-	-	-	-	-	-
Barium	20.0	1280 J	1560 J	453 J	1020 J	732 J	770 J	1420 J
Cadmium	4.6	-	7.8	-	-	-	-	-
Chromium	6.8	16.5 J	41.0 J	-	17.7	20.3	-	-
Lead	42.0	-	54.8	-	-	-	-	-
Mercury	0.2	-	-	-	-	-	-	-
Selenium	80.1	-	81.7	-	-	-	-	-
Silver	7.4	-	-	-	-	-	-	-
Associated Method Blank:		PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1	PBGSMWX1
Associated Equipment Blank:		-	-	-	-	-	-	-
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL
Note: EPTOX ANALYSIS

J: Estimated -: Not detected

PROJECT: Nysdec PSA-6 Guterl Specialty Steel | Miscellaneous Soil Analysis (ug/L) | 03-Mar-93

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	E56501	E56502	E56503
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
ANALYTE	RL			
Arsenic	43	43.0 U	43.0 U	43.0 U
Barium	10	450	564	531
Cadmium	3.0	4.5 []	3.6 []	3.0 U
Chromium	5.0	5.0 U*	8.4 []*	6.6 []*
Lead	40	40.0 U	40.0 U	40.0 U
Mercury	0.2	0.20 U	0.20 U	0.20 U
Selenium	51	51.0 U	51.0 U	51.0 U
Silver	4.0	7.0 []	4.0 U	4.0 U
Associated Method Blank:		PB801EP	PB801EP	PB801EP
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-

Site: SOIL BORING
Note: EPTOX ANALYSIS

U: Not detected []: Less than CRQL *: Duplicate analysis not met

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Table 2
Validation / Summary Table

SAMPLE LOCATION:		GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
LAB NUMBER:		E56501	E56502	E56503
DATE SAMPLED:		10/28/92	10/28/92	10/28/92
ANALYTE	RL			
Arsenic	43	43.0 U	43.0 U	43.0 U
Barium	10	450	564	531
Cadmium	3.0	4.5 []J	3.6 []J	3.0 UJ
Chromium	5.0	5.0 UJ	8.4 []J	6.6 []J
Lead	40	40.0 UJ	40.0 UJ	40.0 UJ
Mercury	0.2	0.20 U	0.20 U	0.20 U
Selenium	51	51.0 U	51.0 U	51.0 U
Silver	4.0	7.0 []J	4.0 UJ	4.0 UJ
Associated Method Blank:		PB801EP	PB801EP	PB801EP
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-

Site: SOIL BORING
Note: EPTOX ANALYSIS

U: Not detected J: Estimated []: Less than CRQL

Table 3
Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	E56501	E56502	E56503
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
ANALYTE	RL			
Arsenic	43	-	-	-
Barium	10	450	564	531
Cadmium	3.0	4.5 []J	3.6 []J	-
Chromium	5.0	-	8.4 []J	6.6 []J
Lead	40	-	-	-
Mercury	0.2	-	-	-
Selenium	51	-	-	-
Silver	4.0	7.0 []J	-	-
Associated Method Blank:		PB801EP	PB801EP	PB801EP
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-

Site: SOIL BORING
Note: EPTOX ANALYSIS

J: Estimated []: Less than CRQL -: Not detected

PROJECT: Nysdec PSA-6 Guterl Specialty Steel | Miscellaneous Soil Analysis (ug/L) | 03-Mar-93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 541910
DATE SAMPLED: 01/12/93

ANALYTE	RL	
Arsenic	66.8	66.8 U
Barium	20.0	510 N
Cadmium	4.6	4.6 U
Chromium	6.8	6.8 U
Lead	42.0	42.0 U
Mercury	0.2	0.20 U
Selenium	80.1	80.1 U
Silver	7.4	22.4

==========

Associated Method Blank: PBGSMWX1
Associated Equipment Blank: -
Associated Field Blank: -

Site: WASTE PILE
Note: EPTOX ANALYSIS

U: Not detected N: Spike recovery not met

Table 2
Validation / Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 541910
DATE SAMPLED: 01/12/93

ANALYTE	RL	
Arsenic	66.8	66.8 U
Barium	20.0	510 J
Cadmium	4.6	4.6 U
Chromium	6.8	6.8 U
Lead	42.0	42.0 U
Mercury	0.2	0.20 U
Selenium	80.1	80.1 U
Silver	7.4	22.4 R

Associated Method Blank: PBGSMWX1
Associated Equipment Blank: -
Associated Field Blank: -

Site: WASTE PILE
Note: EPTOX ANALYSIS

U: Not detected J: Estimated R: Unusable

Table 3
Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 541910
DATE SAMPLED: 01/12/93

ANALYTE	RL	
Arsenic	66.8	-
Barium	20.0	510 J
Cadmium	4.6	-
Chromium	6.8	-
Lead	42.0	-
Mercury	0.2	-
Selenium	80.1	-
Silver	7.4	R

Associated Method Blank: PBGSMWX1
Associated Equipment Blank: -
Associated Field Blank: -

Site: WASTE PILE
Note: EPTOX ANALYSIS

J: Estimated R: Unusable -: Not detected

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Miscellaneous Soil Analysis | 03-Mar-93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
LAB NUMBER:		1541904	1541901	1541909	1541905	1541908	1541907	1541906
DATE SAMPLED:		01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
ANALYTE	RL							
Corrosivity (pH)		9.16	9.20	6.92	9.18	8.90	7.98	8.21
Ignitability (degree F)		>212	>212	>212	>212	>212	>212	>212
Reactivity, Cyanide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Reactivity, Sulfide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Associated Method Blank:		-	-	-	-	-	-	-
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL

U: Not detected

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel | Miscellaneous Soil Analysis | 03-Mar-93

Table 2
Validation / Summary Table

SAMPLE LOCATION:		GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
LAB NUMBER:		1541904	1541901	1541909	1541905	1541908	1541907	1541906
DATE SAMPLED:		01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
ANALYTE	RL							
Corrosivity (pH)		9.16	9.20	6.92	9.18	8.90	7.98	8.21
Ignitability (degree F)		>212	>212	>212	>212	>212	>212	>212
Reactivity, Cyanide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Reactivity, Sulfide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Associated Method Blank:		-	-	-	-	-	-	-
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL

U: Not detected

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel — Miscellaneous Soil Analysis — 03-Mar-93

Table 3
Summary Table

	SAMPLE LOCATION:	GSPS101X0292XD	GSPS101X0292XX	GSPS102X0192XX	GSPS103X0492XX	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX
	LAB NUMBER:	1541904	1541901	1541909	1541905	1541908	1541907	1541906
	DATE SAMPLED:	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93	01/12/93
ANALYTE	RL							
Corrosivity (pH)		9.16	9.20	6.92	9.18	8.90	7.98	8.21
Ignitability (degree F)		-	-	-	-	-	-	-
Reactivity, Cyanide (mg/kg)	1.0	-	-	-	-	-	-	-
Reactivity, Sulfide (mg/kg)	1.0	-	-	-	-	-	-	-
Associated Method Blank:		-	-	-	-	-	-	-
Associated Equipment Blank:		GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX	GSQS001XXX92XX
Associated Field Blank:		-	-	-	-	-	-	-

Site: TEST PIT SOIL

-: Not detected

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501	1456502	1456503
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
ANALYTE	CRQL			
Corrosivity (pH)		7.81	8.12	8.65
Ignitability (degree F)		>212	>212	>212
Reactivity, Cyanide (mg/kg)	1.0	1 U	1 U	1 U
Reactivity, Sulfide (mg/kg)	1.0	1 U	1 U	1 U
Associated Method Blank:		-	-	-
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-

Site: SOIL BORING

U: Not detected

Table 2
Validation / Summary Table

		SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
		LAB NUMBER:	1456501	1456502	1456503
		DATE SAMPLED:	10/28/92	10/28/92	10/28/92
ANALYTE	CRQL				
Corrosivity (pH)			7.81	8.12	8.65
Ignitability (degree F)			>212	>212	>212
Reactivity, Cyanide (mg/kg)	1.0		1 U	1 U	1 U
Reactivity, Sulfide (mg/kg)	1.0		1 U	1 U	1 U
Associated Method Blank:			-	-	-
Associated Equipment Blank:			-	-	-
Associated Field Blank:			-	-	-

Site: SOIL BORING

U: Not detected

Table 3
Summary Table

	SAMPLE LOCATION:	GSBS101X0492XX	GSBS104X0692XX	GSBS105X0292XX
	LAB NUMBER:	1456501	1456502	1456503
	DATE SAMPLED:	10/28/92	10/28/92	10/28/92
ANALYTE	CRQL			
Corrosivity (pH)		7.81	8.12	8.65
Ignitability (degree F)		-	-	-
Reactivity, Cyanide (mg/kg)	1.0	-	-	-
Reactivity, Sulfide (mg/kg)	1.0	-	-	-
Associated Method Blank:		-	-	-
Associated Equipment Blank:		-	-	-
Associated Field Blank:		-	-	-

Site: SOIL BORING

-: Not detected

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910
DATE SAMPLED: 01/12/93

ANALYTE	RL	
Corrosivity (pH)		6.40
Ignitability (degree F)		>212
Reactivity, Cyanide (mg/kg)	1.0	1 U
Reactivity, Sulfide (mg/kg)	1.0	1 U

Associated Method Blank: -
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE

U: Not detected

Table 2
Validation / Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910
DATE SAMPLED: 01/12/93

ANALYTE	RL	
Corrosivity (pH)		6.40
Ignitability (degree F)		>212
Reactivity, Cyanide (mg/kg)	1.0	1 U
Reactivity, Sulfide (mg/kg)	1.0	1 U

Associated Method Blank: -
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE

U: Not detected

Table 3
Summary Table

SAMPLE LOCATION: GSWTX01XXX92XX
LAB NUMBER: 1541910
DATE SAMPLED: 01/12/93

ANALYTE	RL	
Corrosivity (pH)		6.40
Ignitability (degree F)		-
Reactivity, Cyanide (mg/kg)	1.0	-
Reactivity, Sulfide (mg/kg)	1.0	-

Associated Method Blank: -
Associated Equipment Blank: GSQS001XXX92XX
Associated Field Blank: -

Site: WASTE PILE

-: Not detected

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSQS001XXX92XX
LAB NUMBER: 1541911
DATE SAMPLED: 01/12/93

ANALYTE	RL	
Corrosivity (pH)		7.54
Ignitability (degree F)		>212
Reactivity, Cyanide (mg/L)	1.0	1 U
Reactivity, Sulfide (mg/L)	1.0	1 U

Associated Method Blank: -
Associated Equipment Blank: -
Associated Field Blank: -

Site: EQUIPMENT RINSATE

U: Not detected

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: GSQS003XXX92XX
LAB NUMBER: 1544708
DATE SAMPLED: 01/13/93

ANALYTE	
Gross Alpha	<1
Gross Beta	<3

Associated Method Blank: -
Associated Equipment Blank: -
Associated Field Blank: -

Site: EQUIPMENT RINSATE

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSMW001X0992XX	GSMW002X0692XX	GSMW105X0992XX
LAB NUMBER:	1544705	1544707	1544706
DATE SAMPLED:	01/13/93	01/13/93	01/13/93
ANALYTE			
Gross Alpha	<8	23 +/- 14	<10
Gross Beta	20 +/- 5	18 +/- 5	31 +/- 6
Associated Method Blank:	-	-	-
Associated Equipment Blank:	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:	-	-	-

Site: MONITORING WELL

PROJECT: NYSDEC PSA-6 Guterl Specialty Steel Miscellaneous Aqueous Analysis (pci/L) 03-Mar-93

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	GSSW002XXX92XD	GSSW002XXX92XX	GSSW003XXX92XX	GSSW004XXX92XX	GSSW005XXX92XX	GSSW006XXX92XX
LAB NUMBER:	1544704	1544701	1544709	1544710	1544711	1544712
DATE SAMPLED:	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93	01/13/93
ANALYTE						
Gross Alpha	<8	<8	35 +/- 11	<6	<8	<7
Gross Beta	25 +/- 5	21 +/- 5	30 +/- 5	13 +/- 4	15 +/- 4	5.4 +/- 3.4
Associated Method Blank:	-	-	-	-	-	-
Associated Equipment Blank:	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX	GSQS003XXX92XX
Associated Field Blank:	-	-	-	-	-	-

Site: SURFACE WATER

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR: GUTERL SPECIALTY STEEL; FILE: 7085-104
AQUEOUS (ug/L)

VOLATILE

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

GSQS001XXX92XX

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR: GUTERL SPECIALTY STEEL; FILE: 7085-103
AQUEOUS (ug/L)

VOLATILE

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

GSSW002XXX92XX	GSMW001X0992XX
GSSW002XXX92XD	GSMW002X0692XX
GSSW003XXX92XX	GSMW105X0992XX
GSSW004XXX92XX	GSQS003XXX92XX
GSSW005XXX92XX	GSQT002XXX92XX
GSSW006XXX92XX	

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR: GUTERL SPECIALTY STEEL; FILE: 7085-104
SOIL (ug/kg)

VOLATILE

	GSPS101X0292XX	GSPS101X0292XD	GSPS102X0192XX	GSPS103X0492XX
Unknown Alkane	860 J(5)			8 J
Ethyldimethylbenzene Isomer	60 J			
C10H14 Aromatic Hydrocarbon	180 J(3)			
C10H12 Aromatic Hydrocarbon	57 J			
Unknown Cycloalkane		10 J		
Unknown Cyclosiloxane			52 J(2)	7 J
Unknown			6 J	

	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX	GSWTX01XXX92XX
Unknown	10 J	29 J(2)	7 J	15 J(2)
Unknown Alkane	8 J	10 J	7 J	5 J
Unknown Cyclosiloxane	8 J	12 J	28 J	
Dimethylbenzene Isomer			23 J	

J: Estimated N: Presumptive evidence A: Aldol-condensation product

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR: GUTERL SPECIALTY STEEL; FILE: 7085-101
SOIL (ug/kg)

VOLATILE

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

GSBS101X0492XX
GSBS104X0692XX
GSBS105X0292XX

SEMIVOLATILE

	GSBS101X0492XX	GSBS104X0692XX	GSBS104X0692XXRE	GSBS105X0292XX
Unknown Acid	98 J	180 J	260 J	
Unknown Alkane		960 J(6)	520 J(5)	1300 J(5)
Unknown Phthalate		170 J	190 J	
C12H12 Aromatic Hydrocarbon				150 J

	GSBS105X092XXRE
C12H12 Aromatic Hydrocarbon	120 J
C13H14 Aromatic Hydrocarbon	150 J
C14H14 Aromatic Hydrocarbon	82 J
Unknown Alkane	1900 J(7)

J: Estimated N: Presumptive evidence A: Aldol-condensation product

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR GUTERL SPECIALTY STEEL; FILE: 7085-106
AQUEOUS (ug/L)

SEMIVOLATILE

	GSQS001XXX92XX
Unknown Alkane	6 J(2)
Unknown Cycloalkane	4 J

Data Qualifiers: J: Estimated N: Presumptive evidence A: Aldol-condensation product

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR: GUTERL SPECIALTY STEEL; FILE: 7085-105
SOIL (ug/kg)

SEMIVOLATILE

	GSSD002XXX92XX	GSSD002XXX92XD	GSSD003XXX92XX	GSSD004XXX92XX
Unknown Alkane	790 J	1500 J(3)	1200 J(3)	4700 J(3)
Hexadenanoic Acid	480 JN	330 JN	570 JN	
Unknown Acid			350 J	

	GSSD005XXX92XX	GSSD006XXX92XX
Unknown Alkane	1700 J(3)	570 J(2)
Unknown Acid	640 J	420 J
Hexadecanoic Acid	430 JN	490 JN
Unknown Alkene		120 J

J: Estimated N: Presumptive evidence A: Aldol-condensation product

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR: GUTERL SPECIALTY STEEL; FILE: 7085-106
SOIL (ug/kg)

SEMIVOLATILE

	GSPS101X0292XX	GSPS101X0292XD	GSPS102X0192XX	GSPS103X0492XX
Unknown Alkane	2300 J(5)	3300 J(6)	2300 J(10)	4200 J(8)
Unknown Alkane & Aromatic		870 J		
Unknown Aromatic		310 J		140 J
Unknown Cycloalkane				230 J
Trimethyl Naphthalene Isomer	530 J	330 J		350 J(2)
Dimethylbiphenyl Isomer	390 J	470 J		
Trichlorobiphenyl Isomer	940 J(2)	600 J(2)		
Tetrachlorobiphenyl Isomer	1500 J(2)	2300 J(3)		
Dimethyl Naphthalene Isomer				670 J(2)
Dimethyl Phenanthrene Isomer	1200 J(2)	670 J		
C13H12 Aromatic Hydrocarbon	290 J			300 J
C14H16 Aromatic Hydrocarbon	320 J			
C16H14 Aromatic Hydrocarbon	593 J	390 J		
C15H12 Aromatic Hydrocarbon			91 J	
C10H16 Aromatic Hydrocarbon				170 J
C9H12 Aromatic Hydrocarbon				180 J

	GSPS104X0292XX	GSPS105X0292XX	GSPS106X0292XX	GSWTX01XXX92XX
Unknown Alkane	900 J(5)	770 J(3)	5800 J(8)	
Unknown Acid		190 J		
Unknown Aromatic		1200 J	3500 J(4)	
Substituted Phenol			2100 J(2)	
Trimethyl Naphthalene Isomer			290 J	
C11H10 Aromatic Hydrocarbon			310 J	

J: Estimated N: Presumptive evidence A: Aldol-condensation product

gs106s

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR: GUTERL SPECIALTY STEEL; FILE: 7085-103
SOIL (ug/kg)

VOLATILE

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

GSSD002XXX92XX	GSSD004XXX92XX
GSSD002XXX92XD	GSSD006XXX92XX
GSSD003XXX92XX	GSSD005XXX92XX

J: Estimated N: Presumptive evidence A: Aldol-condensation product

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR GUTERL SPECIALTY STEEL; FILE: 7085-105
AQUEOUS (ug/L)

SEMIVOLATILE

	GSMW002X0692XX	GSSW002XXX92XX
Unknown Alkane	67 J(4)	4 J

NO SEMIVOLATILES TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

GSSW005XXX92XX	GSQS003XXX92XX	GSSW006XXX92XX
GSMW001X0992XX	GSSW002XXX92XD	
GSMW001X0992XXRE	GSSW003XXX92XX	
GSMW105X0992XX	GSSW004XXX92XX	

Data Qualifiers: J: Estimated N: Presumptive evidence A: Aldol-condensation product

SECTION 4.0

SECTION 4.0

SURVEY CONTROL REPORT

New York State Department of Environmental Conservation

SUPERFUND STANDBY CONTRACT
Task Order Memorandum 'C'

PRELIMINARY SITE ASSESSMENT NO. 6

GUTERL SPECIALTY STEEL CORP.

CONTROL REPORT

FEBRUARY 1993

OM P. POPLI, P.E.,L.S.,P.C.
Consulting Engineers & Land Surveyors
44 Saginaw Drive
Rochester, NY 14623
(716) 442-6940

INTRODUCTION

I. INTRODUCTION

The purpose of the survey described herein was to establish the necessary horizontal and vertical locations to provide a map of the site. The work described completes Tasks 3 and 4 of the scope of services for Task Order Memorandum C, Preliminary Site Assessment 6.

The work to satisfy Task Order Memorandum C was completed in January 1993 by Om P. Popli, P. E., L.S., P.C. by Mr. Kevin Ryan, Party Chief.

SCOPE OF SERVICES

TASK ORDER MEMORANDUM C

SURVEYING AND MAPPING FOR PRELIMINARY SITE ASSESSMENT NO. 6.1 14 SITES

The services to be provided under Task Order Memorandum C shall be performed in accordance with the terms and conditions of the Task Order Agreement between OM POPLI Associates Incorporated (POPLI) and E.C. Jordan Co. (JORDAN) dated May 5, 1991.

PROJECT SUMMARY

JORDAN under contract to the New York State Department of Environmental Conservation (NYSDEC) is performing Preliminary Site Assessments (PSA) of 14 suspected inactive hazardous waste sites in the State of New York. The purpose of the investigation is to confirm or deny the presence of hazardous waste disposal on-site and determine if a significant threat exists to public health and the environment. Task 1 activities include a data and records search and a site walkover. Task 2 involves the preparation of Work Plans for additional site investigations. Tasks 3 and 4 include initial environmental sampling and subsurface investigations, respectively.

Task 1 activities for the work assignment have been completed and JORDAN is developing the Task A Project Management Work Plan. As part of Tasks 3 and 4 the services of a licensed land surveyor are required to map each site, and locate sampling locations, and other key locations as identified by JORDAN.

SCOPE OF SERVICES

POPLI shall provide all necessary personnel, equipment, and materials to perform the following Scope of Services in accordance with the Standard Specification described in Attachment A and the Survey Services Rate Schedule provided as Attachment C.

POPLI will provide a map showing locations and elevations for each boring, monitoring well, sampling location, and other key points as determined by JORDAN for the following sites:

	SITE NAME	TOWN	COUNTY
1.	Tifft and Hopkins	Buffalo	Erie
2.	SKW Alloy	Niagara	Niagara
3.	Great Lakes Carbon	Niagara Falls	Niagara
4.	Guterl Specialty Steel Corp.	Lockport	Niagara
5.	GCL Tie & Treating	Sidney	Delaware
6.	Oughterson Site	Veteran	Chemung
7.	Dresser Industries	Depew	Erie
8.	Stocks Pond	Depew	Erie
9.	Central Auto Wrecking	Lackawanna	Erie
10.	Clinton-Bailey	Buffalo	Erie
11.	LSB Warehouse	Hamburg	Erie
12.	Sleepy Hollow Campground	Newstead	Erie
13.	Witmer Road Site	Niagara	Niagara
14.	Stauffer Chemical Co.	Lewiston	Niagara

The location map and site sketch for each site is given in Attachment B. For each site POPLI will provide all necessary personnel, equipment, and material to perform the following services in the described manner during the conduct of the survey work:

1. Prepare a map showing property and site boundaries, developed through the use of current tax maps. The name of current property owners are to be shown on the map. In addition the map shall contain north arrow, scale, a legend that shows designations (wells, borings, sample locations, etc.) and a title block containing the official site name and site number.

2. Locate and indicate specific features of the site, such as the location and extent of filled areas, buried tanks, waste piles, buildings, etc. as determined by JORDAN on the map.

3. Establish vertical control at all monitoring wells, borings, sample locations, and corners of buildings as determined by JORDAN and indicate on map.

4. Establish horizontal control at all monitoring wells, borings, sample locations, corners of buildings, and other points as determined by JORDAN and indicate on map.

5. Mobilize and demobilize all necessary survey equipment and personnel to complete the horizontal location and vertical elevation survey within the project schedule.

6. Establish appropriate horizontal and vertical control at the site (i.e., locating existing benchmarks, etc. Refer to the specification, Attachment A for appropriate control).

7. Provide a final bound report for each site summarizing coordinates of all surveyed locations, and ground elevations, together with any comments pertinent to each location. Sampling locations shall be referenced by their proper NYSDEC identification numbers. This report shall also contain photocopies of all field notes and calculations as an appendix. The report shall describe procedures, traverses, and closures, and will note any significant observations relative to the survey. The final report shall be complete and accurate and shall not contain any errors. Any errors or omissions by POPLI shall be corrected by POPLI at no cost to JORDAN within two weeks of notice of errors/omissions, so as not to jeopardize the overall project schedule. The final report shall be signed by a surveyor licensed in the State of New York.

8. Supply POPLI's personnel with all necessary equipment and clothing including, but not limited to, hardhats and safety glasses and other items in addition to those normally utilized by POPLI at a nonhazardous site.

9. Maintain good relations with NYSDEC, the local community, and associated agencies and land owners. POPLI field personnel employed on the project should be made thoroughly cognizant of the importance of this aspect of the work and its sensitivity to the entire program.

10. Provide all necessary measures for securing POPLI's equipment during the conduct of the work.

11. Conduct all field activities in an efficient and professional manner with minimum impact to the site environment. Tree and brush removal and other activities which impact the existing site environment shall not be undertaken without prior approval by JORDAN.

12. Provide social security numbers of all personnel working on PSA.

13. Attend a health and safety briefing during the Task 2 walkover.

14. Attend a site visit/information meeting with JORDAN and the NYSDEC prior to the start of the survey activities at each of the 14 sites. Include this as a separate bid item identified as Task 2.

The methods, procedures and techniques to be used by POPLI are the responsibility of POPLI, and shall be designed to meet the intent of the specifications in Attachment A, appended hereto and incorporated by this Task Order Memorandum. Should the technical specifications conflict in any manner with the scope of services, the provisions of the scope of services shall govern.

Specific requirements for each site are as follows:

4. Guterl Specialty Steel:

- Task 2: Attend the site/information meeting with Jordan and NYSDEC prior to the start of the field activities.

- Task 3: Locate, by flagging at 50-foot intervals (within 10-20 foot accuracy), the approximate landfill/property boundaries prior to Task 3 activities. This will require a separate mobilization. Map 8.6-acre Guterl Steel landfill located behind the Allegheny Ludlum Steel facility at 695 Ohio Street, Lockport, Niagara County, New York. Indicate locations of landfill and property boundaries, wetlands to the east and south of the landfill, fences, entrance gate, three existing monitoring wells, gravel access road, and power line north of landfill. Horizontal and vertical control to be established at the following points during Task 3:

  - Landfill and property boundaries
  - Three existing on-site monitoring wells
  - Twenty boring locations
  - Mound at the north center of landfill
  - Five surface water/sediment sample locations
  - Wetlands east and south of landfill
  - Ten spot elevations on-site to be determined by JORDAN Field Representative

  Summarize the results of the Task 3 survey and present in a report to Jordan.

5. GCL Tie and Treating:

- Task 2: Attend the site/information meeting with Jordan and NYSDEC prior to the start of the field activities.

- Task 3: Map 25-acre site off Gifford Road, Sydney, New York. Indicate access roads, fences, buildings, railroad tracks, marshy areas, waste piles, and woodlands. Map may be developed from aerial survey in conjunction with tax map. Horizontal and vertical control to be established at the following points during Task 3:

  - Four main buildings, two sheds, and Quality Hardwoods sawmill (horizontal control to one corner of each structure)
  - Four surface water/sediment sample locations in wetlands
  - Four surface soil sample locations from site
  - Ten spot elevations to be determined by JORDAN Field Representative

ATTACHMENT A

TECHNICAL SPECIFICATIONS FOR SURVEYING LOCATION AND ELEVATION OF SAMPLING LOCATIONS, MONITORING WELLS AND OTHER KEY POINTS

A. SCOPE

1. General - This specification defines the technical requirements for surveying and related items. It is not the intent of this specification to outline those technical requirements adequately covered by the referenced standards. POPLI shall furnish high quality work and materials meeting the requirements of this specification and industry standards.

2. Work to be Provided by POPLI - POPLI's work shall include furnishing supervision, labor, materials, and equipment necessary to accomplish the scope of work as specified herein. All coordinates should be reported and referenced from the horizontal control at the site established by POPLI.

3. Work to be Provided by JORDAN - JORDAN shall provide site access through NYSDEC and services specified in the Scope of Services.

B. CODES AND STANDARDS

Survey services furnished shall be in accordance with all applicable State of New York Codes and Standards.

C. MATERIALS

1. Benchmarks/Monuments - The benchmarks/monuments, if required, shall be installed with the tops flush with the ground surface. The monuments to be permanently affixed to the bases shall consist of 3-inch diameter brass plates, permanently etched with the following information:

   (a) The point on the plate of known coordinates and elevation.

   (b) The elevation of the benchmark and the datum to which it refers.

   (c) The coordinates of the monument and the coordinate system to which they refer.

   (d) The name of the Surveyor and the date of the benchmark/monument installation.

2. Stakes - The stakes used to locate temporary benchmarks and reference points, soil borings, and monitoring wells shall be composed of hardwood with a minimum nominal 1-by-1-inch cross-section. The stakes shall be at least 40 inches long. The top 6 inches of the stakes shall be painted fluorescent orange. A piece of colored

flagging shall be attached to the top of the stakes to facilitate identifying them in the field.

D. TECHNICAL REQUIREMENTS

1. Description of Services - POPLI shall provide all supervision, labor, materials, and equipment necessary to provide the surveying and related services described herein.

   (a) Establish the horizontal location (to the nearest 1.0 foot) and the vertical elevation (to the nearest 0.01 foot) for each monitoring well. For each well, three vertical elevations measurement shall be required: the top of the uncapped well riser, the top edge of the protective casing, and the ground surface next to the well.

   (b) Establish the horizontal location (to the nearest 1.0 foot) and the vertical elevation (to the nearest 0.01 foot) for locations stated by JORDAN or described in the scope of services.

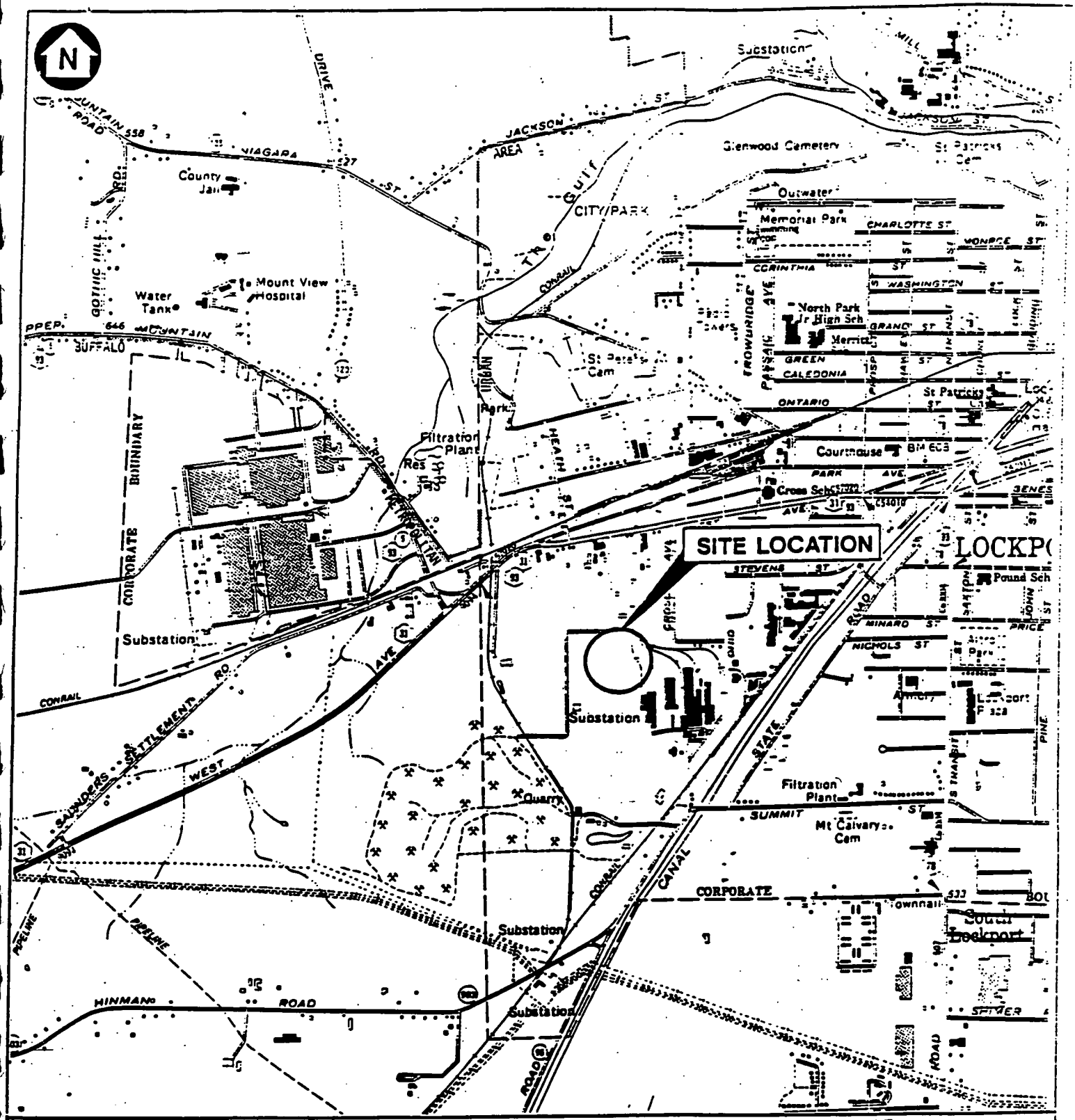
   Horizontal positions shall be tied into the New York State Plan Coordinate System. Vertical elevations shall be tied to mean sea level as determined by the 1929 General Adjustment. Horizontal and vertical survey control lines on loops shall be at third order accuracy. POPLI is responsible for establishing the appropriate horizontal and vertical control at the site (i.e. locating existing benchmarks, etc.). If benchmarks for the New York State Plan Coordinate System are not within 1-mile of the site, POPLI may elect to establish the site control from a permanent structure on the site. Use of an alternate site control point shall be subject to prior approval by JORDAN.

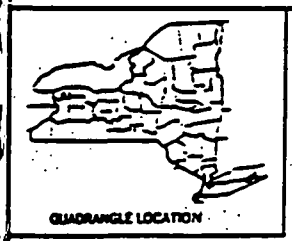
2. Report - For each site a final report shall be provided. The final report shall be bound and shall contain the following items: (1) a title block with the name and address of POPLI; 2) a statement(s) attesting to the accuracy and completeness of the work in accordance with normally accepted practice for work of this type; and (3) the name, signature, and New York Land Survey or License number and seal of the person(s) responsible for the work.

   The report shall contain photocopies of all field notes and computations as an appendix. The report text shall describe procedures, traverses, and closures, and will note any significant observations relative to the survey.

ATTACHMENT B

FIGURES





SOURCE: N.Y.S. DEPARTMENT OF TRANSPORTATION, LOCKPORT QUADRANGLE
DATED 1976, 7.5 MINUTE SERIES

SITE NO: 932032
LOCATION: CITY OF LOCKPORT
NIAGARA COUNTY

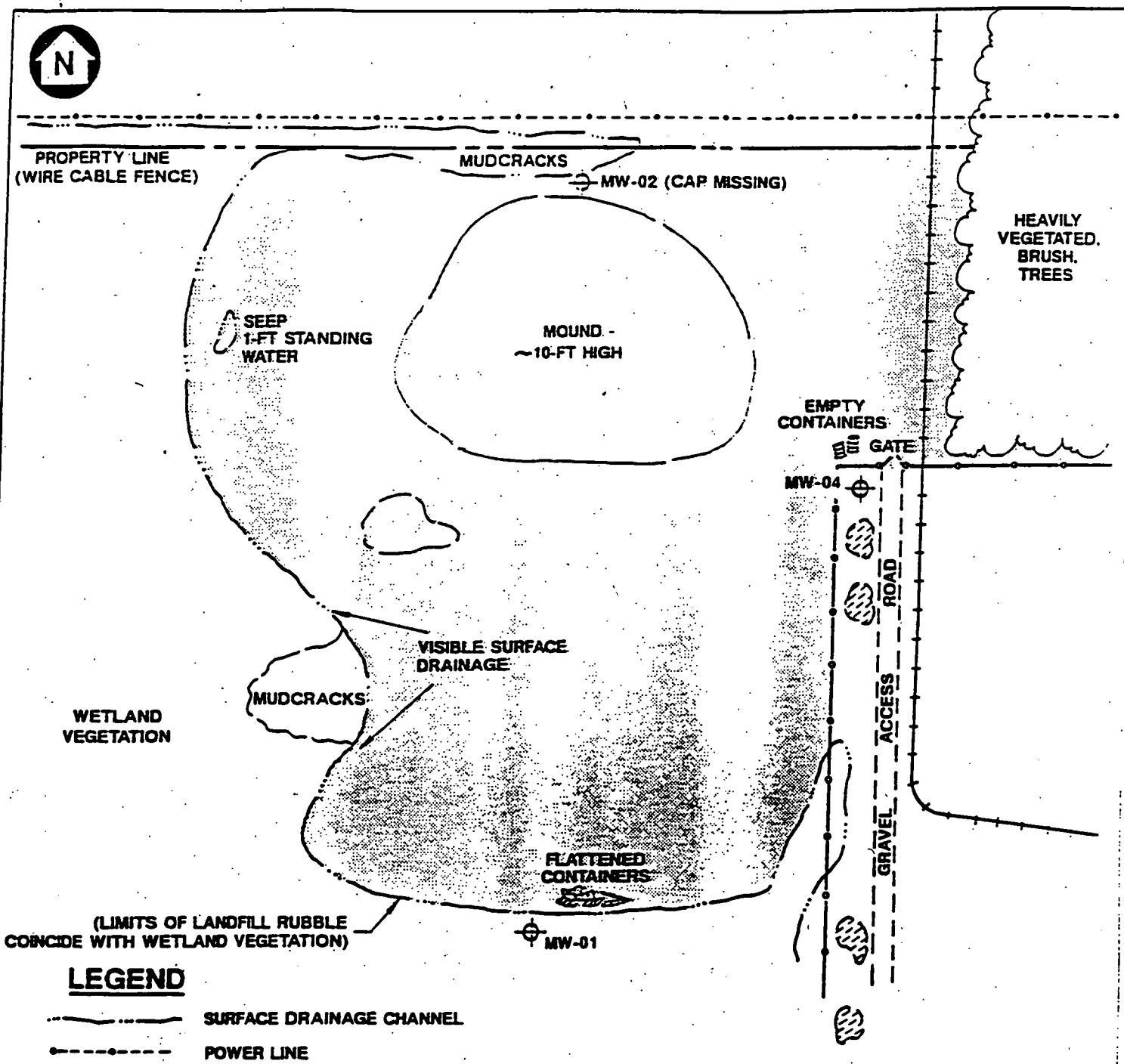
SCALE IN FEET

0 2000 4000

FIGURE 1
SITE LOCATION MAP
GUTERL SPECIAL STEEL CORP.
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

ECJORDANCO

6291



LEGEND

- SURFACE DRAINAGE CHANNEL
- POWER LINE
- RAILROAD
- CHAIN-LINK FENCE
- STOCKPILES
- AREA WHERE LANDFILL DEBRIS WAS VISIBLE AT SURFACE
- MONITORING WELLS INSTALLED BY EARTH DIMENSIONS, 1980 (MW-03, FORMERLY LOCATED ALONG WEST SIDE OF LANDFILL, COULD NOT BE LOCATED BY E.C. JORDAN, 7/18/90)

NOTES:

SITE NO.: 932032
LOCATION: CITY OF LOCKPORT, NIAGARA COUNTY, NEW YORK

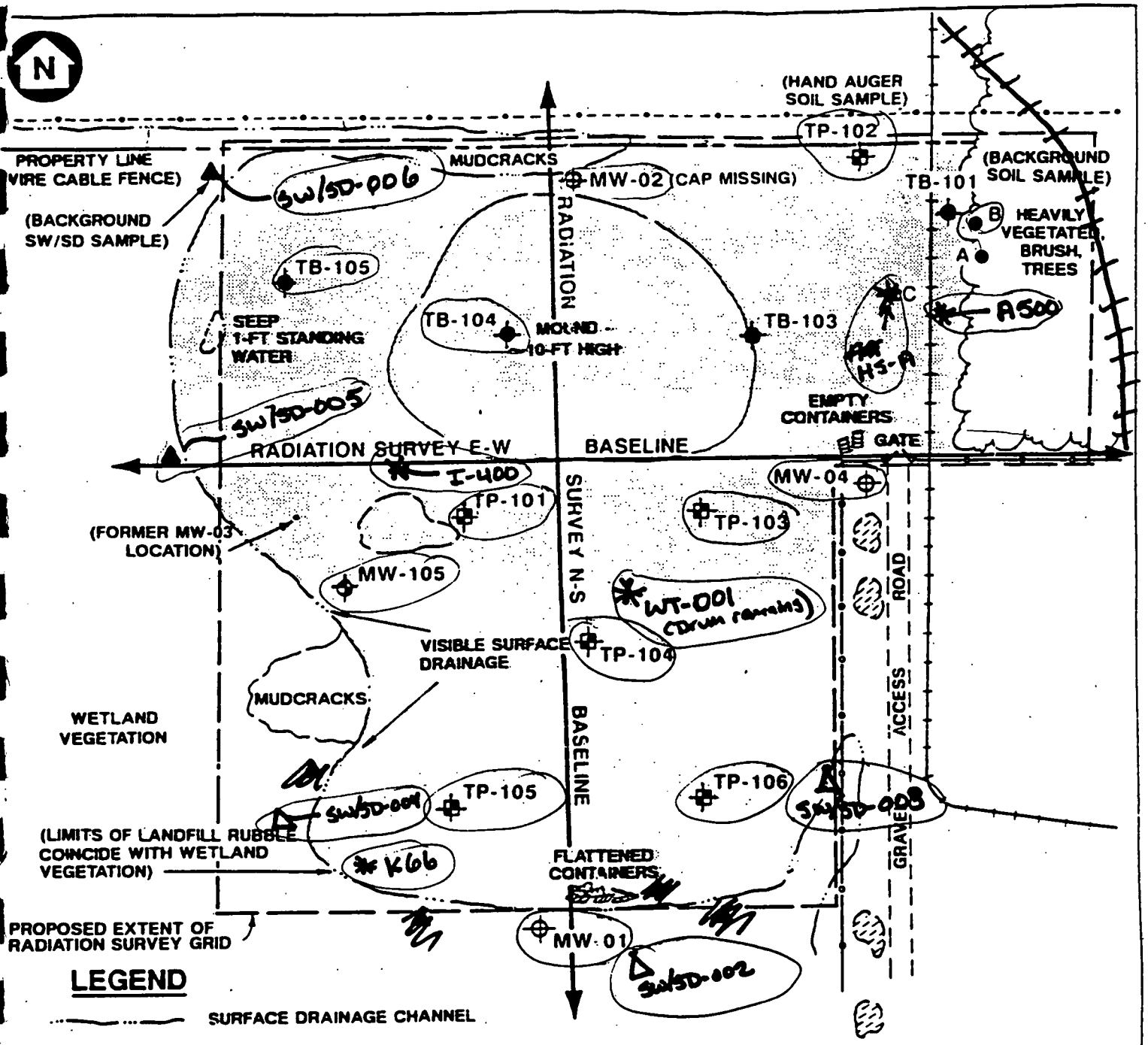
SITE FEATURES BASED ON 7/18/90 SITE VISIT BY E.C. JORDAN AND NYSDEC (LOCATION APPROXIMATE)

APPROXIMATE SCALE
0 100 200 FEET

FIGURE 2
SITE SKETCH MAP
FORMER GUTERL SPECIAL STEEL LANDFILL
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

E.C. JORDAN CO.

6291-30



LEGEND

- SURFACE DRAINAGE CHANNEL
- POWER LINE
- RAILROAD
- CHAIN-LINK FENCE
- STOCKPILES
- AREA WHERE LANDFILL DEBRIS WAS VISIBLE AT SURFACE
- RADIATION ANOMALY DETECTED DURING INITIAL TASK 3 ACTIVITIES
- PROPOSED BORING/SOIL SAMPLING LOCATIONS
- PROPOSED TEST PIT LOCATION
- PROPOSED MONITORING WELL LOCATION
- MONITORING WELLS INSTALLED BY EARTH DIMENSIONS, 1980
- PROPOSED SURFACE WATER/SEDIMENT SAMPLING LOCATION

APPROXIMATE SCALE

0 100 200 FEET

TP 104 ?

NOTES:

SITE NO.: 932032
LOCATION: CITY OF LOCKPORT, NIAGARA COUNTY, NEW YORK

SITE FEATURES BASED ON 7/18/90 SITE VISIT BY E.C. JORDAN AND NYSDEC (LOCATION APPROXIMATE)

FIGURE 4-1
FORMER GUTERL EXPLORATION LOCATIONS
SPECIAL STEEL LANDFILL
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

E.C. JORDAN CO.

291-30

HORIZONTAL CONTROL SUMMARY

III. HORIZONTAL CONTROL

Om P. Popli, P.E., L.S., P.C. recovered monumentation near the mapping area suitable for starting and closing the control traverse. This monumentation is part of a triangulation net established by National Oceanic and Atmospheric Administration (NGS).

Stations ROBIN 3 LGC and ROBIN 3C LGC were recovered in good condition. The accuracy of this station is published as second order, based on the adjustment of 1976, and coordinates computed on the Transverse Mercator Projection, New York State Plane Coordinate System, Western Zone.

All traverse distances and angles were measured with a Topcon GTS-4 total station which reads direct to one second of arc. All distances were measured twice, one measurement in feet, one measurement in meters, measured in both directions. All horizontal angles were observed four times; two (2) direct and two (2) inverted from two different plate settings. The average of the four angles was used as the final angle. The distances were reduced to sea level and then reduced to grid distances using the scale ratio of 0.9999100 obtained from the United States Coast and Geodetic Survey Special Publication No. 323. All computations were completed utilizing Om P. Popli, P.E., L.S., P.C.'s Personal Computers and TDS PC Plus Surveying Software.

The traverse loop established from station ROBIN 3 LGC to the west and south through the project site and closed back onto Station ROBIN 3 LGC with a precision of 1:570,937. The traverse was then adjusted using a standard compass rule adjustment.

TRAVERSE DATA AND CLOSURE

JOB Name : GTRL-CTR FINAL, GRID, Compass Rule ADJ.

Point	Northing	Easting	Elevation	Description
1	1155125.9800	471434.6000	100.0000	ROBIN 3 LGC
2	1154560.7880	469409.6669	100.0000	ROBIN 3C LGC
3	1154224.3184	468343.3695	100.0000	CP-3
4	1154059.7309	467075.0129	100.0000	CP-4
5	1153756.9730	465204.1241	100.0000	CP-5
6	1153276.9244	462845.3164	100.0000	CP-6
7	1152406.0117	462149.7842	100.0000	CP-7
8	1151633.7102	463822.8724	100.0000	CP-8
9	1151275.4694	464246.7873	601.3000	CP-9
10	1151507.0133	464628.2351	602.1500	CP-10
11	1151942.3915	464681.3731	612.5500	CP-11
12	1153370.3356	464466.7178	100.0000	CP-12
13	1153605.9997	464667.3033	100.0000	CP-13
14	1153823.6186	465969.4571	100.0000	CP-14
15	1154068.6816	467521.3116	100.0000	CP-15
16	1154242.8690	468559.5922	100.0000	CP-16
17	1154859.7459	470587.0457	100.0000	CP-17
18	1155125.9800	471434.6000	100.0000	CLOSE ROBIN 3LGC

AUG 1978

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY • NATIONAL GEODETIC SURVEY

HORIZONTAL CONTROL DATA

by the
National Ocean Survey
NORTH AMERICAN 1927 DATUM

QUAD 430783 NY STATION 1131
LATITUDE 43° 00′ TO 43° 30′
LONGITUDE 78° 30′ TO 79° 00′
DIAGRAM NK 17-3 TORONTO

NOAA FORM 76-39
(12-70)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL GEODETIC SURVEY

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: Robin 3 LGC STATE: New York COUNTY: Niagara
NEAREST TOWN: Lockport QUADRANGLE NO.:
CHIEF OF PARTY: J.McIntosh YEAR: 1972 DESCRIBED BY: D.A.Bennett

NOTE.* HEIGHT OF TELESCOPE ABOVE STATION MARK METERS.† HEIGHT OF LIGHT ABOVE STATION MARK METERS.					
SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION				
	OBJECT	BEARING	DISTANCE FEET	DISTANCE METERS	DIRECTION† ° ′ ″

Detailed description

Station is located in the City of Lockport on the southeast corner of the intersection of Main Street and Locust Street.

To reach the station from the Post Office in Lockport go west on Main Street about 500 feet to its intersection with Locust Street.

Station is located in the sidewalk on the southeast corner of the intersection of Main and Locust Streets, 66 feet west of a fire hydrant, 8.7 feet northwest of the corner of a concrete building 5 feet southeast from the inside of the curb.

Station is a brass marker stamped "Lockport Geodetic Control-1972, Robin No. 3"set in the concrete sidewalk.

*Refers to notes in manuals of triangulation and state publications of triangulation. †Direction-angle measured clockwise, referred to initial station.
†To nearest meter only, when no trigonometric leveling is being done.

• U. S. GOVERNMENT PRINTING OFFICE: 1973-761-172

ADJUSTED HORIZONTAL CONTROL DATA
ADJUSTMENT BY NGS

NAME OF STATION: ROBIN 3 LGC OBS BY NGS
STATE: NEW YORK YEAR: 1972 SECOND ORDER
SOURCE: G-15766

GEODETIC LATITUDE:	43° 10′ 12.90101	ELEVATION:	230 METERS
GEODETIC LONGITUDE:	78 41 25.47851		SCALED FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	φ (OR Δ α) ANGLE°
NY 0	3103	471,434.60	1,155,125.98	− 0° 04′ 24″

° PLANE AZIMUTH HAS BEEN COMPUTED BY THE φ (OR Δ α) FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH° (From south)	CODE
ROBIN 38 LGC	341° 43′ 00.69″	341° 47′ 24″	3103

THESE DATA ARE OBTAINED FROM ADJUSTMENT OF 1976

UM 515

AUG 1978

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY • NATIONAL GEODETIC SURVEY

HORIZONTAL CONTROL DATA

by the
National Ocean Survey
NORTH AMERICAN 1927 DATUM

QUAD 430783 NY — STATION 1134
LATITUDE 43 ° 00′ TO 43 ° 30′
LONGITUDE 78 ° 30′ TO 79 ° 00′
DIAGRAM NK 17-3 TORONTO

NOAA FORM 76-39
(12-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL GEODETIC SURVEY

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: Robin 3C LGC — STATE: New York — COUNTY: Niagara
NEAREST TOWN: Lockport — QUADRANGLE NO.:
CHIEF OF PARTY: J. McIntosh — YEAR: 1972 — DESCRIBED BY: D.A. Bennett

NOTE.*	HEIGHT OF TELESCOPE ABOVE STATION MARK METERS.†	HEIGHT OF LIGHT ABOVE STATION MARK METERS.

SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION			
OBJECT	BEARING	DISTANCE FEET	DISTANCE METERS	DIRECTION† ° ′ ″

Detailed description

Station is located in the City of Lockport in the sidewald at the intersection of Park Avenue and West Avenue.

To reach the station from the Post Office in Lockport go west on Main Street 0.45 miles to its intersection with Transit Street (State Route 78), Main Street becomes West Avenue west of Transit Street.

Station is about 220 feet west of the intersection of Main and Transit Streets at the east end of a triangle shaped park, in the sidewalk, 79 feet north of a power pole, 14 feet south of a light pole 6.25 feet westerly from the inside of the curb.

Station is a brass marker stamped "Lockport Geodetic Control-1972, Robin No. 3C", set flush with the ground in a poured concrete monument.

*Refers to notes in manuals of triangulation and state publications of triangulation. †Direction angle measured clockwise, referred to initial station.
† To nearest meter only, when no trigonometric leveling is being done.

* U. S. GOVERNMENT PRINTING OFFICE: 1973-76[illegible]-[illegible]

ADJUSTED HORIZONTAL CONTROL DATA
ADJUSTMENT BY NGS

NAME OF STATION: ROBIN 3C LGC — OBS BY NGS
STATE: NEW YORK — YEAR: 1972 — SECOND -ORDER

SOURCE: G-15766
NO OBSERVATION CHECK ON THIS POSITION

GEODETIC LATITUDE:	43 ° 10 ′ 07.29190	ELEVATION:	235 METERS
GEODETIC LONGITUDE:	78 41 52.79367		SCALED FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	β (OR Δ α) ANGLE *
NY B	3103	469,409.67	1,154,560.79	− 0 ° 04 ′ 42 ″

* PLANE AZIMUTH HAS BEEN COMPUTED BY THE β (OR Δ α) FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south) ° ′ ″	PLANE AZIMUTH* (From south) ° ′ ″	CODE

THESE DATA ARE OBTAINED FROM ADJUSTMENT OF 1976

POSITION DETERMINED BY TRAVERSE FROM STATION RUBIN 3 LGC 197

UH 763

OM P. POPLI, P.E.
Consulting Engineers & Surveyors
44 Saginaw Drive
ROCHESTER, NEW YORK 14623
(716) 442-6940
FAX (716) 244-6008

JOB GUTEAL - VIEW

SHEET NO. 1 OF 1

CALCULATED BY BJM DATE 2-8-93

CHECKED BY _____ DATE _____

SCALE _____

$\angle$ SUM = 2699-59-31

THEO. $\angle$ SUM = 2,700°

ERROR = -0°0'29"

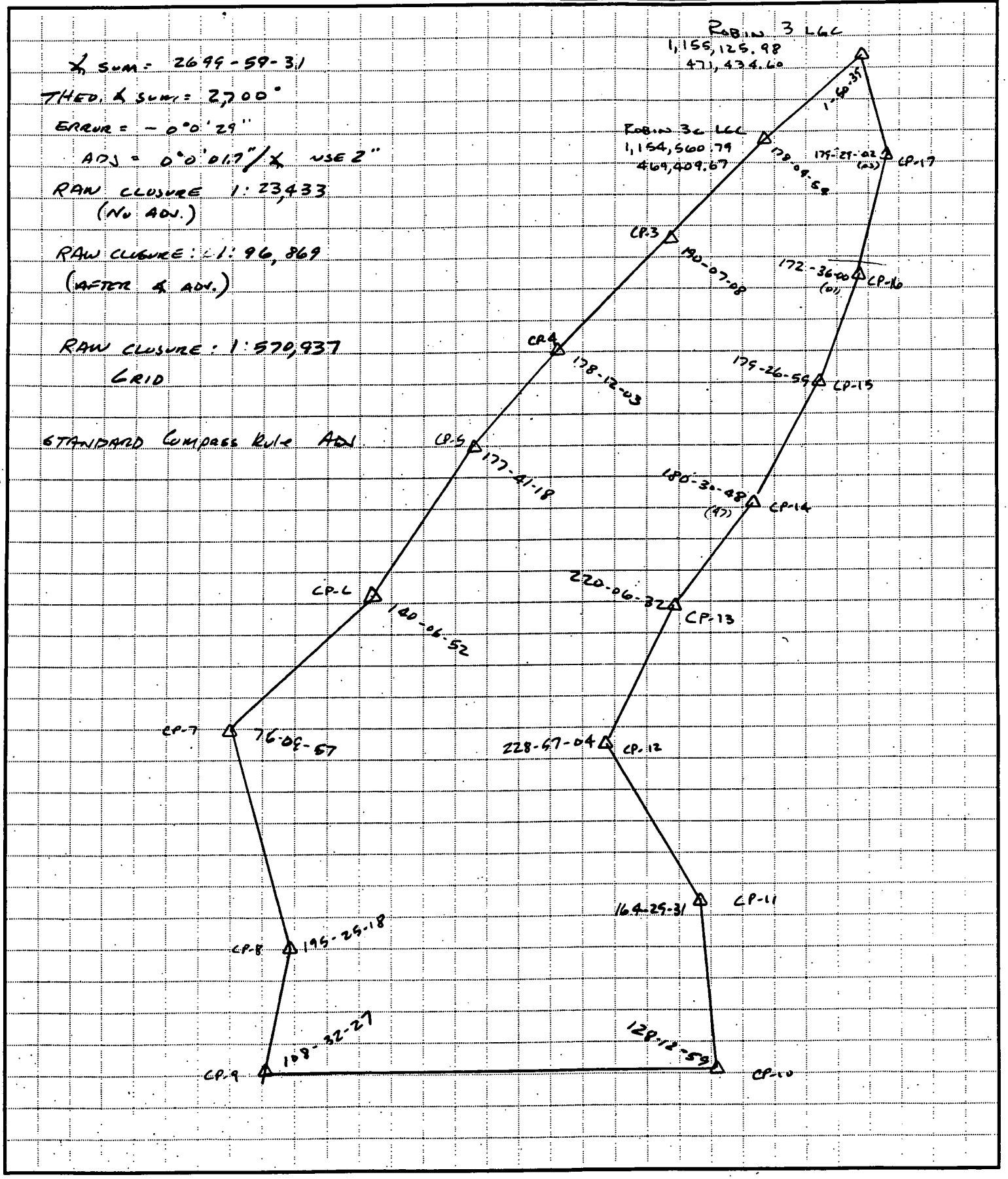
ADJ = 0°0'01.7"/$\angle$ USE 2"

RAW CLOSURE 1:23,433
(No ADJ.)

RAW CLOSURE: 1:96,869
(AFTER $\angle$ ADJ.)

RAW CLOSURE: 1:570,937
GRID

STANDARD Compass Rule ADJ.



Inverse 1 - 2: Brg= S74.2417W, Azm= 254.2417, Horiz dist= 2102.33, Vert dist= 0.00
Inverse 2 - 3: Brg= S72.2913W, Azm= 252.2913, Horiz dist= 1118.12, Vert dist= 0.00
Inverse 3 - 4: Brg= S82.3623W, Azm= 262.3623, Horiz dist= 1278.99, Vert dist= 0.00
Inverse 4 - 5: Brg= S80.4828W, Azm= 260.4828, Horiz dist= 1895.23, Vert dist= 0.00
Inverse 5 - 6: Brg= S78.2948W, Azm= 258.2948, Horiz dist= 2407.16, Vert dist= 0.00
Inverse 6 - 7: Brg= S38.3642W, Azm= 218.3642, Horiz dist= 1114.56, Vert dist= 0.00
Inverse 7 - 8: Brg= S65.1319E, Azm= 114.4641, Horiz dist= 1842.74, Vert dist= 0.00
Inverse 8 - 9: Brg= S49.4759E, Azm= 130.1201, Horiz dist= 555.01, Vert dist= 501.30
Inverse 9 - 10: Brg= N58.4430E, Azm= 58.4430, Horiz dist= 446.22, Vert dist= 0.85
Inverse 10 - 11: Brg= N 6.5731E, Azm= 6.5731, Horiz dist= 438.61, Vert dist= 10.40
Inverse 11 - 12: Brg= N 8.3256W, Azm= 351.2704, Horiz dist= 1443.99, Vert dist= -512.55
Inverse 12 - 13: Brg= N40.2410E, Azm= 40.2410, Horiz dist= 309.47, Vert dist= 0.00
Inverse 13 - 14: Brg= N80.3044E, Azm= 80.3044, Horiz dist= 1320.21, Vert dist= 0.00
Inverse 14 - 15: Brg= N81.0134E, Azm= 81.0134, Horiz dist= 1571.09, Vert dist= 0.00
Inverse 15 - 16: Brg= N80.2835E, Azm= 80.2835, Horiz dist= 1052.79, Vert dist= 0.00
Inverse 16 - 17: Brg= N73.0437E, Azm= 73.0437, Horiz dist= 2119.22, Vert dist= 0.00
Inverse 17 - 1: Brg= N72.3341E, Azm= 72.3341, Horiz dist= 888.39, Vert dist= -0.00

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ROCHESTER, NEW YORK 14623
(716) 442-6940
FAX (716) 244-6008

JOB GUTHRIE STEEL

SHEET NO. 1 OF

CALCULATED BY OPP DATE 2-8-93

CHECKED BY DATE

SCALE

CONVERSION FACTORS

SEA LEVEL: $\frac{R}{R+h}$ = 20,906,000 / 20,906,000 + 603.5 = 0.999 971 13

h = 603.5 (AVE)

(AVE of WELLS + CP)

X' = AVE EAST − 500,000 = 464,344.5 − 500,000 = −35,655.5

AVE EAST of CP 8, CP 9, CP 10, CP 11 = 464,344.5

x' = 0.999 938 95

(FROM SPEC. PUB 323 pg 30-31)

COMBINED FACTOR = 0.999 910 08

GRID

Podli Consultants
44 Saginaw Drive
Rochester, N.Y. 14623
(716) 442-6940

P.I.N.: GUTERL STEEL
File: \QPRO\SURVEY\SLOPE.WQ1

Date: 08-Feb-93

SLOPE DISTANCE REDUCTIONS

****

Course	Zenith Angle Deg	Min	Sec=	Degrees	Radians	Slope (Meters)	(Mtrs)Ft	Horizontal Distance (Feet)	Traverse Length (Feet)	Grid Length 0.99991008000	(Ft.) Scale Factor
1 - 2 Direct	90	40	44	90.679		640.906	2102.706				
1 - 2 Reverse	269	19	32	269.326							
1 - 2 Average	90	40	36	90.677	1.583			2102.5591			
2 - 1 Direct	89	19	59	89.333		640.904	2102.699				
2 - 1 Reverse	270	40	18	270.672							
2 - 1 Average	89	19	50.5	89.331	1.559			2102.5557			
1 - 2								2102.5574	2102.5574	2102.3684	
2 - 3 Direct	89	28	2	89.467		340.850	1118.272				
2 - 3 Reverse	270	32	4	270.534							
2 - 3 Average	89	27	59	89.466	1.561			1118.2235			
3 - 2 Direct	90	32	49	90.547		340.850	1118.272				
3 - 2 Reverse	269	27	58	269.466							
3 - 2 Average	90	32	25.5	90.540	1.580			1118.2223			
2 - 3								1118.2229	3220.7804	1118.1224	
3 - 4 Direct	89	26	55	89.449		389.890	1279.164				
3 - 4 Reverse	270	33	15	270.554							
3 - 4 Average	89	26	50	89.447	1.561			1279.1046			
4 - 3 Direct	90	34	32	90.576		389.891	1279.167				
4 - 3 Reverse	269	25	38	269.427							
4 - 3 Average	90	34	27	90.574	1.581			1279.1032			
3 - 4								1279.1039	4499.8842	1278.9889	
4 - 5 Direct	89	52	13	89.870		577.718	1895.396				
4 - 5 Reverse	270	7	58	270.133							
4 - 5 Average	89	52	7.5	89.869	1.569			1895.3915			
5 - 4 Direct	90	7	40	90.128		577.720	1895.403				
5 - 4 Reverse	269	52	33	269.876							
5 - 4 Average	90	7	33.5	90.126	1.573			1895.3985			
4 - 5								1895.3950	6395.2792	1895.2245	
5 - 6 Direct	90	43	27	90.724		733.825	2407.558				
5 - 6 Reverse	269	16	41	269.278							
5 - 6 Average	90	43	23	90.723	1.583			2407.3658			
6 - 5 Direct	89	18	41	89.311		733.824	2407.554				

6 - 5	Reverse	270	41	35	270.693					
6 - 5	Average	89	18	33	89.309	1.559			2407.3792	
5 - 6									2407.3725	2407.3725	2407.1561
6 - 7	Direct	89	48	40	89.811		339.751	1114.666		
6 - 7	Reverse	270	11	31	270.192					
6 - 7	Average	89	48	34.5	89.810	1.567			1114.6603	
7 - 6	Direct	90	12	39	90.211		339.753	1114.673		
7 - 6	Reverse	269	47	34	269.793					
7 - 6	Average	90	12	32.5	90.209	1.574			1114.6655	
6 - 7									1114.6629	3522.0354	1114.5627
7 - 8	Direct	89	50	20	89.839		561.720	1842.910		
7 - 8	Reverse	270	9	49	270.164					
7 - 8	Average	89	50	15.5	89.838	1.568			1842.9023	
8 - 7	Direct	90	11	23	90.190		561.721	1842.913		
8 - 7	Reverse	269	49	11	269.820					
8 - 7	Average	90	11	6	90.185	1.574			1842.9034	
7 - 8									1842.9028	5364.9383	1842.7371
8 - 9	Direct	90	2	8	90.036		169.183	555.061		
8 - 9	Reverse	269	58	28	269.974					
8 - 9	Average	90	1	50	90.031	1.571			555.0611	
9 - 8	Direct	90	1	49	90.030		169.185	555.068		
9 - 8	Reverse	269	58	34	269.976					
9 - 8	Average	90	1	37.5	90.027	1.571			555.0677	
8 - 9									555.0644	5920.0027	555.0145
9 -10	Direct	89	51	14	89.854		136.024	446.272		
9 -10	Reverse	270	9	12	270.153					
9 -10	Average	89	51	1	89.850	1.568			446.2705	
10 - 9	Direct	90	11	41	90.195		136.020	446.259		
10 - 9	Reverse	269	48	41	269.811					
10 - 9	Average	90	11	30	90.192	1.574			446.2565	
9 -10									446.2635	446.2635	446.2234
10 -11	Direct	88	37	55	88.632		133.738	438.772		
10 -11	Reverse	271	22	23	271.373					
10 -11	Average	88	37	46	88.629	1.547			438.6466	
11 -10	Direct	91	20	30	91.342		133.738	438.772		
11 -10	Reverse	268	39	51	268.664					
11 -10	Average	91	20	19.5	91.339	1.594			438.6523	
10 -11									438.6494	884.9129	438.6100
11 -12	Direct	89	54	28	89.908		440.168	1444.118		
11 -12	Reverse	270	5	45	270.096					
11 -12	Average	89	54	21.5	89.906	1.569			1444.1159	

12 -11	Direct	90	7	19	90.122		440.170	1444.124		
12 -11	Reverse	269	53	3	269.884					
12 -11	Average	90	7	8	90.119	1.573			1444.1213	
11 -12									1444.1186	2329.0315	1443.9887
12 -13	Direct	89	35	53	89.598		94.339	309.511		
12 -13	Reverse	270	24	16	270.404					
12 -13	Average	89	35	48.5	89.597	1.564			309.5029	
13 -12	Direct	90	30	32	90.509		94.338	309.507		
13 -12	Reverse	269	29	53	269.498					
13 -12	Average	90	30	19.5	90.505	1.580			309.4952	
12 -13									309.4990	2638.5306	309.4712
13 -14	Direct	89	51	45	89.863		402.440	1320.339		
13 -14	Reverse	270	8	33	270.143					
13 -14	Average	89	51	36	89.860	1.568			1320.3346	
14 -13	Direct	90	9	35	90.160		402.440	1320.339		
14 -13	Reverse	269	50	46	269.846					
14 -13	Average	90	9	24.5	90.157	1.574			1320.3336	
13 -14									1320.3341	1320.3341	1320.2154
14 -15	Direct	90	14	22	90.239		478.916	1571.244		
14 -15	Reverse	269	45	51	269.764					
14 -15	Average	90	14	15.5	90.238	1.575			1571.2301	
15 -14	Direct	89	46	24	89.773		478.915	1571.240		
15 -14	Reverse	270	13	52	270.231					
15 -14	Average	89	46	16	89.771	1.567			1571.2278	
14 -15									1571.2289	2891.5630	1571.0876
15 -16	Direct	90	37	1	90.617		320.940	1052.951		
15 -16	Reverse	269	23	23	269.390					
15 -16	Average	90	36	49	90.614	1.582			1052.8903	
16 -15	Direct	89	24	0	89.400		320.937	1052.941		
16 -15	Reverse	270	36	16	270.604					
16 -15	Average	89	23	52	89.398	1.560			1052.8826	
15 -16									1052.8865	3944.4495	1052.7918
16 -17	Direct	90	13	57	90.233		646.007	2119.441		
16 -17	Reverse	269	46	18	269.772					
16 -17	Average	90	13	49.5	90.230	1.575			2119.4242	
17 -16	Direct	89	46	50	89.781		646.002	2119.425		
17 -16	Reverse	270	13	25	270.224					
17 -16	Average	89	46	42.5	89.778	1.567			2119.4091	
16 -17									2119.4166	6063.8661	2119.2260
17 - 1	Direct	88	29	14	88.487		270.901	888.781		
17 - 1	Reverse	271	31	6	271.518					

17 - 1	Average	88	29	4	88.484	1.544			888.4701	
1 -17	Direct	91	32	0	91.533		270.901	888.781		
1 -17	Reverse	268	28	13	268.470					
1 -17	Average	91	31	53.5	91.532	1.598			888.4635	
17 -18									888.4668	6952.3329	888.3869

JOB Name : GTRL-CTR

RAW

Point	Northing	Easting	Elevation	Description
1	1155125.9800	471434.6000	100.0000	ROBIN 3 LGC
2	1154560.7900	469409.6700	100.0000	ROBIN 3C LGC
3	1154224.2809	468343.2817	100.0000	CP-3
4	1154059.6552	467074.8160	100.0000	CP-4
5	1153756.8174	465203.7704	100.0000	CP-5
6	1153276.6365	462844.7730	100.0000	CP-6
7	1152405.6128	462149.2222	100.0000	CP-7
8	1151633.3410	463822.5085	100.0000	CP-8
9	1151275.0970	464246.4869	100.0000	CP-9
10	1151506.6915	464627.9513	100.0000	CP-10
11	1151942.1144	464681.0568	100.0000	CP-11
12	1153370.1672	464466.2459	100.0000	CP-12
13	1153605.8741	464666.8247	100.0000	CP-13
14	1153823.6654	465969.0724	100.0000	CP-14
15	1154068.9476	467521.0379	100.0000	CP-15
16	1154243.2926	468559.3894	100.0000	CP-16
17	1154860.5218	470586.9384	100.0000	CP-17
18	1155126.9121	471434.5288	100.0000	CLOSE ROBIN 3LGC

RAWDATA FILE

```
JOB: GTRL-CTR Date 02-08-1993 Time 15:26:26
Mode setup:North Azm.Dist ft,scale 1.000000, Earth crv OFF,offset 0.000
Store :Pt 1 N 5000.0000 E 5000.0000, Elv 100.0000, START
Store :Pt 1 N 1155125.9800 E 471434.6000, Elv 100.0000, ROBIN 3 LGC
Store :Pt 2 N 1154560.7900 E 469409.6700, Elv 100.0000, ROBIN 3C LGC
Occupy:Pt 2 N 1154560.7900 E 469409.6700, Elv 100.0000, ROBIN 3C LGC
Backsight:2-1, BS azm 74.2417, BS cir 0.0000
Traverse: 2-3 Ang-Rt 178.0454 Zen 90.0000 SlpD 1118.223 ,CP-3
Traverse: 3-4 Ang-Rt 190.0708 Zen 90.0000 SlpD 1279.104 ,CP-4
Traverse: 4-5 Ang-Rt 178.1203 Zen 90.0000 SlpD 1895.395 ,CP-5
Traverse: 5-6 Ang-Rt 177.4118 Zen 90.0000 SlpD 2407.373 ,CP-6
Traverse: 6-7 Ang-Rt 140.0652 Zen 90.0000 SlpD 1114.663 ,CP-7
Traverse: 7-8 Ang-Rt 76.0957 Zen 90.0000 SlpD 1842.903 ,CP-8
Traverse: 8-9 Ang-Rt 195.2518 Zen 90.0000 SlpD 555.064 ,CP-9
Traverse: 9-10 Ang-Rt 108.3227 Zen 90.0000 SlpD 446.264 ,CP-10
Traverse: 10-11 Ang-Rt 128.1259 Zen 90.0000 SlpD 438.649 ,CP-11
Traverse: 11-12 Ang-Rt 164.2931 Zen 90.0000 SlpD 1444.119 ,CP-12
Traverse: 12-13 Ang-Rt 228.5704 Zen 90.0000 SlpD 309.499 ,CP-13
Traverse: 13-14 Ang-Rt 220.0632 Zen 90.0000 SlpD 1320.334 ,CP-14
Traverse: 14-15 Ang-Rt 180.3048 Zen 90.0000 SlpD 1571.229 ,CP-15
Traverse: 15-16 Ang-Rt 179.2659 Zen 90.0000 SlpD 1052.887 ,CP-16
Traverse: 16-17 Ang-Rt 172.3600 Zen 90.0000 SlpD 2119.417 ,CP-17
Traverse: 17-18 Ang-Rt 179.2902 Zen 90.0000 SlpD 888.467 ,CLOSE ROBIN 3LGC
```

BASELINE TIE SHEETS

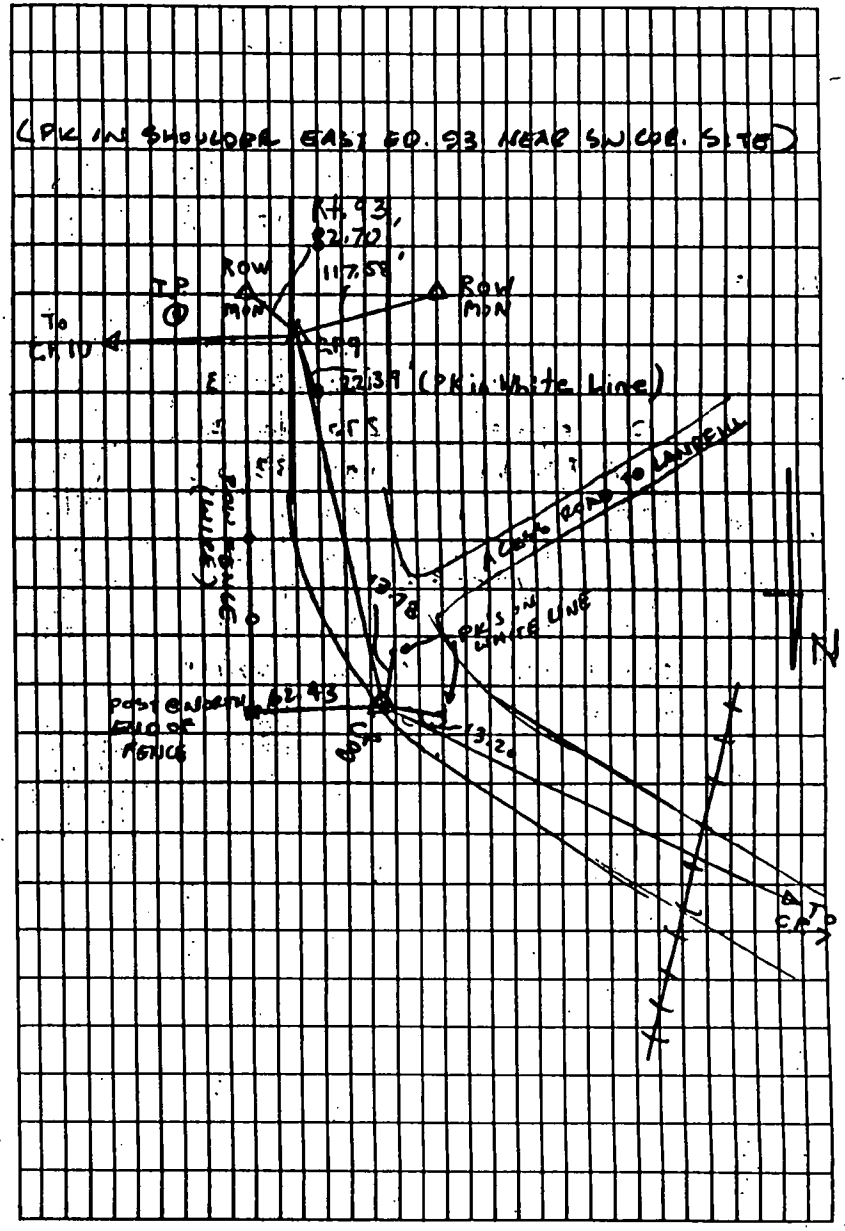
GUTERL STEEL

1/19/93	CONTROL			
	T @ CP 8	BS. CP 7		
FS. ⊙	195-25-17	15-25-28		
BS	00-00-00	180-00-11		
±	195-25-17	195-25-17		
AVG ±				
FS	285-25-22	105-25-35		
BS	90-00-00	270-00-19		
±	195-25-22	195-25-16		
AVG ±				
	195-25-18			
B.S VERT			FT.	M
D	90-11-23		1842.915	561.721
R	269-49-10			
±				
FS VERT			FT	M
D	90-02-08		555.060	169.183
R	269-58-28			
±				

KR
KH

SNOW 28°

36



VERTICAL CONTROL SUMMARY

VI VERTICAL CONTROL SUMMARY

All elevations herein were based upon Benchmark 'BM 608', established by the Coast and Geodetic Survey (C&GS). The published elevation of 'BM 608' is 607.613 feet (above mean sea level) based on the North American Datum of 1929.

The vertical control loop originated at benchmark 'BM 608', and looped through the site benchmark and closed back onto benchmark 'BM 608' with an error of 0.00 ft. No adjustment was made.

The site benchmark is a railroad spike in the northeast side of PP near gate for the railroad tracks; elevation = 606.91'.

AUG 1978

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY • NATIONAL GEODETIC SURVEY

HORIZONTAL CONTROL DATA

by the
National Ocean Survey
NORTH AMERICAN 1927 DATUM

QUAD 430783 NY STATION 1126
LATITUDE 43 ° 00' TO 43 ° 30'
LONGITUDE 78 ° 30' TO 79 ° 00'
DIAGRAM NK 17-3 TORONTO

NOAA FORM 76-39
(12-70)
(FORMERLY C&GS FORM 526)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL GEODETIC SURVEY

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: ROBIN
STATE: New York COUNTY: Niagara
NEAREST TOWN: In Lockport
QUADRANGLE NO.: 430783
CHIEF OF PARTY: I. L. Crabbe YEAR: 1972 DESCRIBED BY: J. D. Swinney

NOTE.* HEIGHT OF TELESCOPE ABOVE STATION MARK 1.74 METERS.† HEIGHT OF LIGHT ABOVE STATION MARK 1.5 METERS.

NOTE.*	SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION				
	OBJECT	BEARING	DISTANCE FEET	DISTANCE METERS	DIRECTION‡	
1a	None					
11a	UPPER (VG)				0 00 00.0	
	RM 1	WNW	25.81	7.866	2 00 00	
	Lockport St Patricks Cath Ch Spire	ENE	Approx.1.0 mile		150 21 17.4	
11a	RM 2	WSW	22.34	6.808	323 34 24	
	Lockport Harrison Radiator Tank	WSW	Approx.1.5 mile		340 15 33.8	
	RM 1 to RM 2		16.18	4.932		

Detailed description

The station is located in the west edge of Lockport. It is atop the highest point of the International Multifoods Grain Elevator which is located at the intersection of West Avenue and Michigan Street. (This is the old Robin Hood Flour Company Elevator and has ROBIN HOOD FLOUR lettered on the south side.)

Station mark is a standard disk, stamped ROBIN 1972. The disk is set in the top of a 12-inch square concrete monument that projects 4 inches and is affixed to the roof. It is 6.9 feet northwest of the southeast corner of the roof, 5.1 feet west of the east edge of the roof and 4.7 feet north of the south edge of the roof.

Reference mark 1 is a standard disk, stamped ROBIN NO 1 1972, set in the top of a 12-inch square concrete monument that projects 4 inches and is affixed to the roof. It is 2.9 feet east of the west edge of the roof and 2.2 feet south of the north edge of the roof. The mark is the same elevation as the station mark.

Reference mark 2 is a standard disk, stamped ROBIN NO 2 1972, set in the top of a 12-inch square concrete monument that projects 4 inches and is affixed to the roof. It is 2.7 feet east of the west edge of the roof and 2.1 feet north of the south edge of the roof. The mark is the same elevation as the station mark.

*Refers to notes in manuals of triangulation and many publications of triangulation. †To nearest meter only, when no trigonometric leveling is being done. ‡Direction-angle measured clockwise, referred to initial station.

U.S. GOVERNMENT PRINTING OFFICE: 1971-786-081

MKS

ADJUSTED HORIZONTAL CONTROL DATA
ADJUSTMENT BY NGS

NAME OF STATION: ROBIN GBS BY NGS
STATE: NEW YORK YEAR: 1972 SECOND -ORDER
SOURCE: G-15766

GEODETIC LATITUDE:	43 10 01.74461	ELEVATION:	244.9 METERS 803 FEET
GEODETIC LONGITUDE:	78 42 48.30720		

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	N	V	β (OR Δ) ANGLE*
NY 5	3103	465,254.94	1,154,005.20	- 0 05 20

* PLANE AZIMUTH HAS BEEN COMPUTED BY THE β (OR Δ) FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH* (From south)	CODE
UPPER	100 31 46.05	100 37 06	3103

THESE DATA ARE OBTAINED FROM ADJUSTMENT OF 1976

UM 513

BM 608 — USGS ELEVATION 607.613'

STAMP ON DISK '607E. RESET 1954'

LOCATION

12" N.E. of N.E. CORNER OF NIAGARA CO. COURT HS AT NIAGARA & HAWLEY STREETS

12" SQUARE CONC. POST 8" ABOVE GRADE

COORDINATE AND ELEVATION SUMMARY

JOB Name : GUTERL

Point	Northing	Easting	Elevation	Description
1	5000.0000	5000.0000	100.0000	START
101	1151506.9769	464628.2480	607.0118	CP 10
102	1152121.0427	464911.7565	606.3306	PP
103	1152114.7226	464880.1257	607.9811	RR TRACKS
104	1152043.1185	464883.4140	607.6086	RR TRACKS
105	1151963.6070	464892.5445	607.2583	RR TRACKS
106	1151843.7755	464928.6837	606.2132	RR TRACKS
107	1151843.7328	465156.6165	605.0241	RR TRACKS
108	1151868.7091	465102.5489	605.3013	RR TRACKS
109	1151902.8235	465045.4420	605.7342	RR TRACKS
110	1151954.9720	464984.3776	605.8909	RR TRACKS
111	1152009.7316	464941.6297	606.7244	RR TRACKS
112	1152066.2759	464913.5218	607.1467	RR TRACKS
113	1152111.8136	464899.2635	607.7014	RR TRACKS
114	1152057.6484	464903.6158	607.0700	TB101/SPOT
115	1151979.9000	464853.6292	605.1347	HS-A/SPOT
116	1151932.3580	464895.3901	607.2108	GRID REF 500
117	1151843.6932	465124.6954	605.4166	CLF
118	1151838.3689	464941.0571	606.3592	GATE POST
119	1151837.4902	464909.0003	606.3772	GATE POST
120	1151836.5204	464865.7222	606.1847	COR CLF
121	1151830.6367	464852.1783	605.3512	EMPTY CONTAINERS
122	1151845.4327	464852.3227	605.0236	EMPTY CONTAINERS
123	1151832.6437	464822.4353	604.0895	EMPTY CONTAINERS
124	1151794.8473	464802.6402	604.3627	TP 103
125	1151885.8338	464777.1133	605.9458	BOTTOM MOUND
126	1151883.6961	464721.8643	607.1604	BOTTOM MOUND
127	1151891.4339	464666.3450	607.0305	BOTTOM MOUND
128	1151938.4087	464628.2074	604.7832	BOTTOM MOUND
129	1152006.4614	464640.9584	605.4057	BOTTOM MOUND
130	1152044.1531	464676.8309	603.8255	BOTTOM MOUND
131	1152043.8892	464739.5593	604.0796	BOTTOM MOUND
132	1151997.4870	464768.6571	606.1306	TB 103?NO STAKE
133	1151936.5654	464784.6567	607.1388	TB 103?NO STAKE
134	1151926.3558	464732.8719	613.0143	TOP MOUND
135	1151926.5499	464696.4729	613.0544	TOP MOUND
136	1151970.8008	464684.6935	612.4833	TOP MOUND
137	1151979.6286	464717.0642	612.6879	TOP MOUND
138	1151953.6985	464707.3292	612.9241	TB 104
139	1152084.3315	464796.5784	606.0098	TP 102
140	1152119.5239	464736.9334	604.5250	PPNYSEG T-18A
141	1152107.8130	464670.8498	604.2971	MW 2
142	1152116.3548	464559.3897	605.0009	PP NYSEG T-31
143	1152111.5485	464567.3759	603.9164	BEG WIRECABLEFEN
144	1152112.2397	464627.7747	603.8744	BEG WIRECABLEFEN
145	1152116.0211	464741.7052	604.3430	END WIRECABLEFEN
146	1152012.7353	464536.9702	602.4354	TB 105/SPOT
147	1151993.2402	464905.6767	607.9338	PP
148	1151801.0715	464910.2865	605.4110	PP SITE BM
149	1151827.5678	464885.1664	605.3680	MW 4
150	1151771.0150	464680.0697	604.4367	WT 001/SPOT
151	1151719.3888	464639.0842	604.3319	TP 104/SPOT
152	1151815.8801	464622.3926	605.2729	I-400/SPOT
153	1151816.4754	464614.8503	606.2575	TP 101
154	1151798.6329	464471.2604	598.9215	MW 105
155	1151837.3270	464415.5651	597.7539	SW/SD 105-005
156	1152065.8138	464458.1074	599.1091	SW/SD 00[illegible]
157	1151940.3371	464456.7712	599.9819	EDGE WETLANDS
158	1151826.3738	464446.4969	598.5645	EDGE WETLANDS

159	1151759.0880	464496.3135	599.4867	EDGE WETLANDS
160	1151679.4926	464483.3224	598.3418	EDGE WETLANDS
161	1151801.8677	464549.1107	602.4533	SPOT
162	1152113.4919	464379.0710	598.4773	PP
163	1152065.2679	464347.0884	598.0274	IP/NW PROP COR
164	1152169.7200	464573.3159	607.1609	IP/NORTHEND PROP
165	1151275.4732	464246.7928	601.3745	CP 9
166	1151646.4777	464869.0529	599.5457	CLF
167	1151551.3815	464871.0247	599.0876	CLF/ SW/SD 3
168	1151566.4087	464773.6955	601.6209	TP 106/SPOT
169	1151441.0755	464735.9798	598.5957	SW/SD 2
170	1151454.2597	464704.4808	600.0447	MW 1
171	1151560.0435	464565.4407	599.5366	TP 105/SPOT
172	1151475.5877	464521.5388	598.5162	K-66
173	1151507.2998	464461.7909	597.7624	SW/SD 4
174	1151635.6225	464482.6795	598.5290	EDGE WETLANDS
175	1151545.0929	464498.3185	598.6869	EDGE WETLANDS
176	1151489.3638	464503.9191	598.3737	EDGE WETLANDS
177	1151428.2906	464548.3430	598.5854	EDGE WETLANDS
178	1151431.6413	464624.5138	598.3453	EDGE WETLANDS
179	1151435.1724	464684.4106	598.5307	EDGE WETLANDS
180	1151492.5973	464770.8457	599.0920	EDGE WETLANDS
181	1151536.7939	464813.2662	599.8806	EDGE WETLANDS
182	1151622.6574	464850.2127	600.5908	EDGE WETLANDS
183	1151689.7226	464831.2308	601.9967	SPOT
184	1151678.0934	464742.3384	602.3793	SPOT
185	1151588.1189	464721.0249	601.7506	SPOT
186	1151592.3427	464642.3742	603.0766	SPOT
187	1151639.6534	464590.1363	601.5413	SPOT
188	1151480.0739	464604.3356	603.1266	SPOT
189	1151633.7638	463822.8393	601.4041	CP 8
190	1151256.6655	464327.2276	597.2520	ROW MON?EASTSIDE
191	1151164.0693	464209.3761	598.0481	ROW MON?WESTSIDE
192	1151247.8415	464269.4261	600.9181	EP
193	1151373.7815	464160.4869	601.5485	EP RTE. 93
194	1151484.3997	464041.5455	601.6899	EP RTE. 93
195	1151582.1123	463909.2275	601.5815	EP RTE. 93
196	1151551.1366	463833.3254	598.6693	EP
197	1151509.5857	463891.8420	598.5992	EP@ACCESS RD
198	1151470.9838	463902.5613	598.0504	EP@ACCESS RD
199	1151379.7946	463906.7674	597.5221	EP@ACCESS RD
200	1151375.8674	463942.2253	597.5855	EP
201	1151432.5098	463949.8784	597.9957	EP
202	1151315.5217	464365.8963	598.1877	IP SWPROP COR
203	1151452.1390	463962.8330	598.5279	EP @ RTE. 93
204	1151447.5743	463991.4505	599.2394	EP @ RTE. 93
205	1151346.6753	464109.0838	599.2827	EP @ RTE. 93
206	1151225.7562	464224.0518	599.7387	EP @ RTE. 93
207	1151119.4831	464310.7725	599.9629	EP @ RTE. 93

FIELD NOTES

GUTERL STEEL

1/15/93 CONTROL

⊼ @ CP2 B.S. CP1

F.S. (3)	178·04·52	358·04·57
B.S.	00·00·00	180·00·03
∡	178·04·52	178·04·54
AVG ∡		
F.S.	268·04·~~56~~ 55	88·05·06
BS	90·00·00	270·00·~~09~~ 10
∡	178·04·~~56~~ 55	178·04·56
AVG ∡		
	178-04-54	

BS. VERT		FT.	M
D	89·19·59	2102.705	640.904
R	270·40·18		
∡			

FS. VERT		FT.	M
D	89·28·02	1118.275	340.850
R	270·32·04		
∡			

KR
KH

SNOW 28°

CP1 IS MON 3 LGC, CP2 IS MON 3K

(CP2 @ N.E. COR. BRISTOL & RT 31)

GUTERL STEEL

1/15/93		CONTROL		
	T @ CP 3	BS. CP 2		
FS ④	190-07-09	10-07-14		
BS.	00-00-00	180-00-09		
∠	190-07-09	190-07-05		
AVG ∠				
FS.	280-07-12	100-07-16		
BS.	90-00-00	270-00-10		
∠	190-07-12	190-07-06		
AVG ∠				
	190-07-08			
BS. VERT		FT.	M	
D	90-32-09	1118.275	340.850	
E	269-27-58			
∠				
FS. VERT		FT.	M	
D	89-26-55	1279.165	389.890	
E	270-33-15			
∠				

KR
KM

SNOW 280 31

(PK @ N.W. COR 82ND ST & WEST AVE) RT 31

GUTERL STEEL

1/15/93		CONTROL		
		$\bar{x}$ @ CP 4	B.S. CP 3	
F.S. (5)		178-12-02	358-12-08	
B.S.		00-00-00	180-00-07	
±		178-12-02	178-12-01	
AVG ±				
F.S.		268-12-06	88-12-11	
B.S.		90-00-00	270-00-08	
±		178-12-06	178-12-03	
AVG ±				
		178-12-03		
BS VERT			FT.	M
	D	90-34-32	1279.170	389.891
	R	269-25-28		
	±			
FS VERT			FT.	M
	D	89-52-13	1895.400	577.718
	R	270-07-58		
	±			

KR
KH

SNOW 28°

32

(D.H. IN SIDEWALK 75' WEST OF MULTI-FOOD BLDG)
(ON N. SIDE OF RT. 31)

GUTERL STEEL

1/15/93 CONTROL

		T @ CP 5	B.S. CP 4	
FS. ⑥	177-41-17		357-41-20	
BS	00-00-00		180-00-04	
∠	177-41-17		177-41-16	
AVG ∠				
FS	267-41-19		87-41-23	
B.S.	90-00-00		270-00-02	
∠	177-41-19		177-41-21	
AVG ∠				
		177-41-18		
B.S. VERT			FT.	M
D	90-07-40		1895.405	577.720
R	269 52 33			
∠				
FS. VERT			FT.	M
D	90-43-27		2407.560	733.825
R	269 16 41			
∠				

(UNT N 71°E RT. 31 2500' ± EAST OF INT. OF RT. 93)

GUTELL STEEL

1/15/93		CONTROL		
		⏄ @ CP6	B.S. CP 5	
FS. ①		140-06-54	320-07-03	
B.S.		00-00-00	180-00-09	
*		140-06-54	140-06-54	
AVG *				
FS.		230-06-51	50-06-57	
BS.		90-00-00	270-00-08	
*		140-06-51	140-06-49	
AVG *				
		140-06-52		
BS VERT			FT	M
D		89-18-41	2407.560	733.824
R		270-41-35		
*				
FS VERT			FT	M
D		89-48-40	1114.665	339.751
R		270-11-31		
*				

KL
KH

SNOW 28°

34

(PK. S.W COL RT 31 & RT 93)

GUTELL STEEL

KR
KW

SNWW 28°

35

1/15/83		CONTROL		
		∧ @ CP 7 BS. CP 6		
FS. ⑧	76-09-58	256-10-02		
B.S.	00-00-00	180-00-07		
∠	76-09-58	76-09-55		
AVG ∠				
FS.	166-09-58	346-10-03		
BS	90-00-00	270-00-07		
∠	76-09-58	76-09-56		
AVG ∠				
		76-09-57		
B.S. VERT			FT.	M
D	90-12-39		1114.675	339.753
R	269-47-34			
∠				
FS. VERT			FT.	M.
D	89-50-20		1842.810	561.720
R	270-09-19			
∠				

(CPL IN SHOULDER EAST ±0.53)

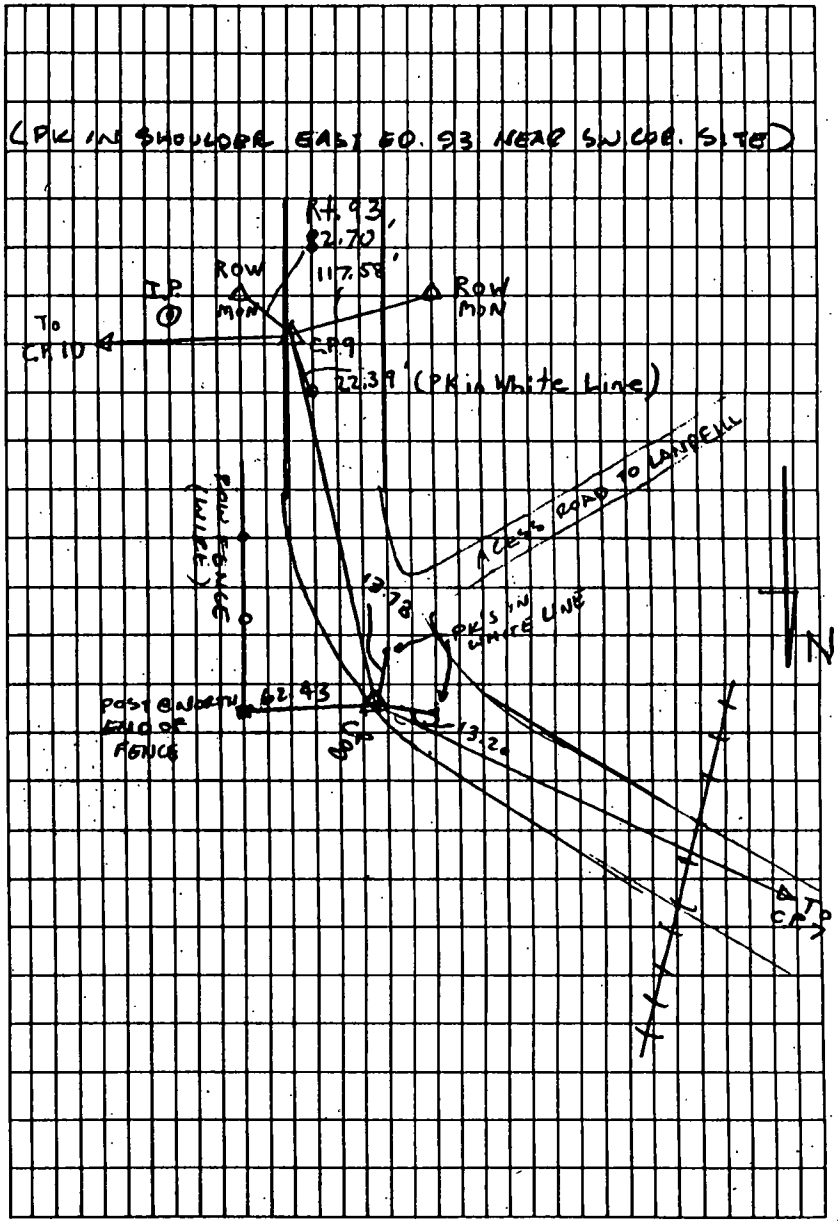
GUTELL STEEL

1/19/93		CONTROL		
		$\bar{\Lambda}$ @ CP 8	BS. CP 7	
FS ⑤		195-25-17	15-25-28	
BS		00-00-00	180-00-11	
±		195-25-17	195-25-17	
AVG ±				
FS		285-25-22	105-25-35	
BS		90-00-00	270-00-19	
±		195-25-22	195-25-16	
AVG ±				
		195-25-18		
B.S. VERT			FT.	M
	D	90-11-23	1842.915	561.721
	R	269-49-10		
	±			
FS VERT			FT	M
	D	90-02-08	555.060	169.183
	R	269-58-28		
	±			

KR
KH

SNOW 28°

36



GUTERL STEEL

SUNNY 30° 37

KR
HH

1/18/93	CONTROL		
	T @ CP9	B.S. CP8	
FS. (10)	108·32·38 (22)	288·32·48 (32)	(HIT SOUTH END OF SITE)
BS	00·00·00	180·00·16 (12)	
*	108·32·22	108·32·20 (+T)	
AVG *			
FS.	108·32·34	18·33·03	
BS.	90·00·00	270·00·21	
*	108·32·34	108·32·32	
AVG *			
	108·32·27		
B.S. VERT		FT.	M
D	90·01·49	555.070	169.185
R	269·58·34		
*			
F.S. VERT		FT	M
D	89·51·14	446.270	136.024
R	270·09·12		
*			

GUTERL STEEL

SUNNY 300 38

KR
KH

1/18/93	CONTROL			
		T e CP 10	B.S. CP 9	
FS. (11)		128-12-58	308-13-01	
BS		00-00-00	180-00-03	
±		128-12-58	128-12-58	
AVG 4				
FS		218-13-01	38-13-02	
BS.		90-00-00	270-00-02	
±		128-13-01	128-13-00	
AVG 4				
		128-12-59		
BS VERT			Ft.	M.
D		90-11-41	446.265	136.020
R		269-48-41		
±				
FS VERT			Ft.	M
D		88-37-55	438.775	133.738
R		271-22-23		
±				

(MKR ON MOUND NORTH END OF SITE)

GUTERL STEEL

KE
KH

SUNNY 30° 39

1/18/93		CONTROL		
		T @ CP 11	B.S. CP 10	
FS. (12)		164-29-28	349-29-35	
BS		00-00-00	180-00-05	
★		164-29-28	164-29-30	
ANG ★				
FS.		254-29-34	74-29-41	
BS		90-00-00	270-00-10	
★		164-29-34	164-29-31	
ANG ★				
		164-29-31		
BS VERT	+		FT.	M
D		91-20-30	438.775	133.738
R		268-39-51		
★				
FS. VERT			FT.	M
D		89-54-28	1449.120	440.168
R		270-05-45		
★				

(PK. WEST SIDE, NORTH END RICHFIELD RD)

GUTERL STEEL

KR
KH

SUNNY 300

40

1/18/93		CONTROL		
		T @ CP 12	B.S. CP 11	
FS 13		228-57-04	48-57-08	
B.S.		00-00-00	180-00-04	
℄		228-57-04	228-57-04	
AVG ℄				
F.S.		318-57-06 10	138-57-13	
BS.		90-00-00	270-00-08 11	
℄		228-57-06	228-57-02	
AVG ℄				
		228-57-04		
B.S. VERT			FT	M
D	90-07-19		1444.125	440.170
R	269-53-03			
℄				
FS VERT			FT	M
D	89-35-53		309.515	94.339
R	270-24-16			
℄				

(O.H. WESTED OF RODGERS WELDING SUPPLY)

GUTERL STEEL

KR
KH

SUNNY 300

41

1/18/93		CONTROL		
		T. @ CP 13	B.S. CP 12	
FS 14		220-06-30	40-06-38	
B.S.		00-00-00	180-00-06	
4		220-06-30	220-06-32	
AVG 4				
F.S		310-06-34	130-06-37	
B.S.		90-00-00	270-00-06	
4		220-06-34	220-06-31	
AVG 4				
		220-06-32		
B.S VERT			FT.	M
D	90-30-32		309.510	94.338
R	269-29-53			
4				
FS VERT			FT.	M.
D	89-51-45		1320.935	402.440
R	270-08-33			
4				

(PK. IN P. LOT FRANKS DELI | LAUNDRY)

GUTERL STEEL

1/18/93		CONTROL		
		T @ CP 14 B.S. CP 13		
FS 15		180-30-48	00-30-57	
B.S.		00-00-00	180-00-06	
∠		180-30-48	180-30-51	
AVG ∠				
FS.		270-30-45	90-30-50	
B.S.		90-00-00	270-00-04	
∠		180-30-45	180-30-46	
AVG ∠				
		180-30-48		
B.S. VERT			FT.	M
D		90-09-35	1320.335	402.490
R		269-50-46		
∠				
FS VERT			FT.	M
D		90-14-22	1571.250	478.916
R		269-45-51		
∠				

KR
KH

SUNNY 300

42

(CP4 IN PILOT FRONT OF MANARS APPL.)

GUTERL STEEL

HR
KH

SUNNY 30°

43

1/18/03		CONTROL			
		⊼ @ CP 15	B.S. CP 14		
FR. 16		179-26-58	359-27-02		
BS.		00-00-00	180-00-01		
4		179-26-58	179-27-01		
AVG ∠					
F.S.		269-26-57	89-27-04		
BS		90-00-00	270-00-03		
∠		179-26-57	179-27-01		
AVG ∠					
		179-26-59			
BS VERT			FT.	M	
	O	89-46-24	1571.245	478.915	
	R	270-13-52			
	∠				
FS VERT			FT.	M	
	O	90-37-01	1052.950	320.940	
	R	269-23-23			
	∠				

(O.H. IN WALL FRONT OF NORTHEAST CLEANERS)

GUTERL STEEL

SUNNY 30°

KR
KH

1/18/93 CONTROL

		∠ @ CP 16	B.S. CP 15	
F.S. 17		172-35-58	352-36-04	
B.S.		00-00-00	180-00-05	
∠		172-35-58	172-36-01	
AVG ∠				
F.S.		262-36-03	82-36-11	
B.S.		90-00-00	270-00-11	
∠		172-36-03	172-36-00	
AVG ∠				
		172-36-00		
BS. VERT			FT.	M
D	89-24-00		1052.940	320.937
R	270-36-16			
∠				
FS. VERT			FT.	M
D	90-13-57		2119.495	646.007
R	269-46-18			
∠				

(D.4. IN WALK IN FRONT RITE AID)

GUTERL STEEL

SUNNY 30° 45

KL
KH

1/18/93 CONTROL

		T @ CP17	B.S. CP16	
FS. 1		179-29-05	359-29-10	
BS.		00-00-00	180-00-07	
Δ		179-29-05	179-29-03	
AVG Δ				
FS.		269-28-58	89-29-06	
BS.		90-00-00	270-00-02	
Δ		179-28-58	179-29-04	
AVG Δ				
		179-29-02		
BS. VERT			FT.	M
	D	89-46-50	2119.430	646.002
	R	270-13-25		
	Δ			
FS. VERT			FT.	M
	D	88-29-14	888.785	270.901
	R	271-31-06		
	Δ			

(MON B LOC)

GUTERL STEEL

1/18/93	CONTROL			
	↑ @ CP 1	BS. CP 17		
FS. ∠	01-50-38	181-50-42		
BS.	00-00-00	180-00-03		
∠	01-50-38	01-50-39		
AVG ∠				
FS	91-50-38	271-50-44		
BS	90-00-00	270-00-04		
∠	01-50-38	01-50-40		
AVG ∠				
	01-50-39			
B.S.VERT		FT.	M	
D	91-32-00	888.780	270.901	
∠	268-28-13			
∠				
F.S.VERT		FT.	M	
D	90-40-44	2102.710	640.906	
∠	269-19-32			
∠				

KR
KH

SUNNY 30°

46

(MON 3C)

GUTBEL STEEL

1/19/93 LEVELS

				607.613
0.07	607.68			
		9.76	597.92	
9.37	607.29			
		3.07	604.22	
10.05	614.27			
		1.04	613.23	
7.70	620.93			
		2.48	618.45	
6.89	625.34			
		4.09	621.25	
4.44	625.69			
		4.38	621.31	
4.77	626.08			
		9.17	616.91	
3.62	620.53			
		10.67	609.86	
3.86	613.72			
		9.57	604.15	
4.56	608.71			
		4.15	604.56	
10.67	615.23			
		2.68	612.55	
2.73	615.48			

KR
KH

CLOUDY 28°

47

BM 608 N.E. cor. of NIAGARA Co. COURT HSE.

TP

TP

TP

TP

TP

TP

TP

TP

TP

TP

CP 11

GUTERL STEEL

1/12/93		LEVELS	WELL ELEV'S	
		615.48		
			11.29	604.2
			9.76	605.72
	3.95	609.67		
			10.79	598.9
			8.73	600.94
			8.95	600.72
	7.91	608.63		
			8.44	600.2
	~~4.60~~		5.72	602.91
	4.60	607.51		
			5.36	602.15
	5.52	607.67		
			6.37	601.30
	6.35	607.65		
			2.11	605.5
			0.91	606.74
	4.52	611.26		
			4.35	606.91
	10.16	617.07		
			2.98	607.09
	7.60	614.69		
			0.72	613.97
	7.42	621.39		

KR
KH

CLOUDY 28°

48

MW 2 GRD
" RISER } No CASS.

MW 195 GRD
4 CASS
4 RISER

MW 1 GRD
" RISER } No CASS.

CP 10

CP 9

MW 4 GRD
4 RISER } No CASS.

@ SITE BM 1 R.R. SPK IN N.E. SIDE POLE NEAREST TO GATE

TP

TP

GUZZELL STEEL

1/19/93		LEVELS			
		621.39			
			3.65	617.74	
	9.19	626.93			
			6.53	620.40	
	5.93	626.33			
			5.72	620.61	
	4.63	625.24			
			6.84	618.40	
	3.68	622.08			
			7.45	614.63	
	1.96	616.59			
			12.47	604.12	
	3.44	607.56			
			9.54	598.02	
	7.75	605.77			
			3.08	602.69	
	5.52	608.21			
			0.60	607.61	607.61
					0.00

JAM

KR
KH

Cloudy 29°

10

TP

TP

TP

TP

TP

TP

TP

TP

TP

BM 608

GUTERL STEEL

CLOUDY 28°

50

KR
KH

1/19/93

LOCATIONS

HE = 5.21 — @ CP 111 B.S. CP 10 w/00

	Horiz	Vert	SD		ROD
1 : 1	00-00-00	91-24-13	438.79		—
	225-14-57	91-08-30	291.57		5.62
	222-06-48	90-54-21	263.07		
	236-32-31	91-09-00	225.78		
1 : 2	257-18-26	91-19-04	212.27		
	284-47-07	91-16-31	266.30		
	274-46-16	90-09-43	485.36		12.07
	272-58-00	89-10-23	427.60		18.63
	269-14-47	89-28-42	366.21		15.36
1 : 4	260-37-58	91-10-50	303.31		5.62
	248-32-10	91-09-15	268.86		
	234-51-20	91-05-14	263.16		
	225-10-26	90-55-17	276.02		
	235-37-49	91-09-37	250.98		
1 : 5	250-45-35	92-16-37	176.91		
	265-47-45	91-19-05	214.29		
	275-35-41	89-31-10	454.17		15.36
	284-52-30	91-11-02	279.79		5.62
	287-47-18	91-19-02	250.69		
1 : 1	292-54-56	91-36-17	212.66		

DESC.
CP 10
P.P.
R.R. TRACKS
" "
" "
" "
BREAK
R.R. TRACKS
" "
" "
" "
" "
" "
" "
HB 101/SPOT
HUB A 1/SPOT
GRID REF 500 A-500?
C.L.F.
GATE POST
" "
COR C.L.F.

GUTERL STEEL

KE
KH

CLOUDY 28°

51

1/19/93

LOCATIONS

HZ=5.21 ↑ @ CP (11) B.S. CP (10, W100

	Horiz	VERT	SD	ROD
121	236.14.36	91.54.18	204.22	5.62
	292.36.30	92.04.26	196.65	
	300.55.54	92.34.45	178.90	
	313.37.53	92.19.55	191.14	
12[illegible]	293.37.27	93.11.19	111.36	
	318.27.36	93.59.41	71.48	
	9.29.21	95.29.30	53.39	
	78.44.43	97.51.13	53.84	
	140.46.50	95.04.49	76.05	
13[illegible]	170.28.28	94.40.01	102.19	
	202.51.39	93.56.31	117.25	
	230.46.50	93.19.58	103.37	
	266.16.39	92.46.06	103.55	
	280.21.21	89.01.16	53.93	
13[illegible]	309.28.27	87.36.25	21.90	
	179.40.19	89.18.43	28.50	
	216.49.16	89.23.28	51.56	
	239.30.37	88.24.44	28.30	
	212.06.13	91.55.15	182.89	
14[illegible]	194.27.06	92.20.57	185.78	
	169.23.40	92.42.33	165.93	

OESA

EMPTY CONTAINERS

" "

" "

TP 103

BOTTOM MOUND

" "

" "

" "

" "

" "

" "

" "

} TB103 ? NO STAKE

TOP MOUND

" "

" "

" "

TB 104

TP 102

PP NYSEG +-18 A

MW 2

GUTERL STEEL

CLOUDY 28°

KR
KH

S2

1/19/93		LOCATIONS			
HZ=5.21		↑ @ CP11 BS. CP10 W/00			
	HORIZ	VERT	SD		ROD
142	137-59-40	91-55-28	212.59		5.62
	139-03-30	92-18-31	204.15		
	155-31-13	92-39-26	178.29		
142	192-11-53	92-25-45	183.96		
	109-00-24	93-27-26	160.93		
	250-16-14	91-16-19	230.03		4.72
	204-44-06	91-37-28	269.12		
	292 26-41	91-52-43	234.03		
1[illegible]	353-23-01	92-52-25	171.61		
	3-47-00	92-11-49	227.16		
	18-02-30	93-11-04	139.82		
	20 53-38	92-43-35	142.59		
	48-39-42	93-10-26	255.00		
1[illegible]	61-28-24	93-03-40	286.25		
	111-58-15	93-07-32	255.50		
	82-30-51	93-19-31	225.01		
	56-45-13	93-09-45	262.39		
	38-18-56	92-58-42	260.85		
1[illegible]	30-02-05	92-32-24	329.50		
	~~28-06-17~~				
	36-18-30	93-08-23	193.29		
	112-32-51	92-24-02	347.68		

DESC
T-31 WEST P.P
WIRE CABLE FENCE BEG.
" " "
" " " END.
TA 105 / SPOT
P.P
PP SWISH
MW 4
W 100 / SPOT
TP 104 / SPOT
I 400 / SPOT
TP 101
MW 8 105
SW 150 105 - 005
SW 150 006 / ED W.L.
ED WETLANDS.
" " ALSO ED LANDFILL
" "
" "

SPOT
PP

CUTERL STEEL

CLOUDY 28°

KR
KH

1/19/93	LOCATIONS			
HI=5.21	T @ CP11	BS. CP(10) W/00		
BS	108-13-18	288-13-22		
FS B.S	60-00-00	180-00-06		
165 +	103-13-18	103-13-12		
	108-13-15			
FS VERT		FT.	M	
D	92-24-53	356.430	108.657	
C	267-35-15	356.483		
	92-24-49			
FS	147-36-45	327-36-48		
BS	00-00-00	180-00-00		
166 +	147-36-45	147-36-48		
	147-36-47			
FS VERT		FT.	M	
D	91-20-20	251.770	76.739	
C	268-39-46	251.711		
	91-20-17			

IP PROP. COR. (N.W. COR. PROP.)

IP PROP. COR (NORTH END PROP.)

CUTLER STEEL

1/20/93		LOCATIONS			
HT = 5.33		∧ @ CP 10	BS. CP 9	0/00	
	HORIZ	VERT	SD		ROD
110	00.00.00	90.08.31	446.24		5.00
	181.10.56	90.36.15	278.28		5.00
	200.54.15	90.05.28	246.79		8.00
	189.02.54	90.18.48	157.10		5.00
	242.44.00	91.45.41	126.37		
170	248.57.00	91.30.17	92.74		
	71.25.29	92.05.03	82.25		
	14.50.37	92.02.26	111.32		
	31.21.10	91.37.24	166.53		
	72.42.54	91.09.55	194.28		
175	47.35.15	91.36.17	135.45		
	23.10.25	91.52.22	125.65		
	346.40.59	91.59.18	112.25		
	304.05.55	93.08.08	75.59		
	263.14.56	92.28.47	91.28		
120	217.02.10	91.21.15	143.36		
	202.07.04	90.47.41	187.41		
	183.44.26	9025.57	250.28		
	163.16.06	90.06.05	273.09		
	159.57.27	90.01.41	205.62		
195	170.06.03	90.20.21	123.22		
120	130.39.21	8936.17	86.48		

KR
KH

ED SUNNY 25°

54

DESC.
CP 9
L.C.F.
" / SW/SD 3
TP 106 / SPOT
SW/SD 2
MW 1
TP 105 / SPOT
K-66
SW/SD 4
ED WETLANDS
" "
" "
" "
" "
" "
" "
" "
" "
SPOT
"
"
"

ALSO ED LANDFILL

GOTERWSTEEL

1/20/93		LOCATIONS			
HZ=5.33		T/I @ CP(10) B.S. CP(9) W/00			
	HORIZ	VERT	SD		ROD
181	105-13-25	90-23-23	138.00		5.00
182	342 50 45	88 58 19	36.04		5.00
HZ=5.19		T @ CP(9) B.S CP(8) W/00			
	HORIZ	VERT	SD		ROD
189	00-00-00	89 58 33	555.08		5.00
	152-58-09	92-54-10	82.70		5.00
111	248-22-11	91-39-11	117.58		
	190-30-08	90-50-14	35.72		
	8-30-47	89-57-09	130.82		
	5-18-21	89-57-04	292.88		
195	2-02-58	89-58-56	456.05		
	353-29-24	90-19-10	426.95		5.00
	353-12-19	90-22-58	425.22		
	345-23-34	90-29-26	395.90		
	336-51-15	90-37-52	355.70		
200	338-02-29	90-41-19	320.72		5.00
201	347-40-18	90-35-15	335.91		5.00

KL
KH

SUNNY 25°

55

DESC.
SPOT
"

DESC.
CP 8
EDGE MARK ? EAST SIDE 93
EDGE MARK ? WEST SIDE 93
EP
"
"
"
BREAK
EP
" @ ACCESS ROAD TO LANDFILL
"
"
BREAK
EP
EP

HZ. 93

22 GUTERL STEEL

KR
KH

SUNNY 28°

56

1/20/93	LOCATIONS				
	T @ CP(7)		B.S. CP(8)		
FS IP	121-12-59		301-13-07		
B.S.	00-00-00		180-00-09		
2024	121-12-59		121-12-58		
FS. VERT			FT.	M	
D	91-29-08		125.680	38.310	
R	268 31-12		12[illegible]		
	11-28-58				
	T @ CP 9		B.S. CP8	NLOD	
	HORIZ	VERT	SD		ROD
205	351-41-09	90-29-56	334.45		5.00
	353-46-38	90-24-34	307.94		
	347-08-10	90-47-50	155.05		
	254-23-17	91-46-55	54.71		
27	207-30-13	90-30-07	168.61		

IP PROP COR. (BIN. COR. PROP.)

DESC

EP @ RT = 93

GUTEEL STEEL SITE SKETCH

1/20/93

NOT TO SCALE