DEPARTMENT OF THE ARMY
SENECA ARMY DEPOT
ROMULUS, NEW YORK 14541-5001

451-85

REPLY TO
ATTENTION OF

September 11, 1992

Office of Engineering/Environmental
Management Division

Mr. Michael Duschesneau
Chas. T. Main, Inc.
Prudential Center
Boston, MA 02199

Dear Mr. Duschesneau:

Enclosed please find the most recent quarterly monitoring results for the Ash Landfill well field.

If you have any questions or comments, please contact Mr. James Miller at (607) 869-1532.

Sincerely,

Stephen M. Absolom

Stephen M. Absolom
Chief, Engineering/Environmental
Management Division

Enclosure

CF:

Ms. Carla Struble, Project Manager, Federal Facilities Section, Room 2930, USEPA, 26 Federal Plaza, New York, New York 10278

Mr. Kamal Gutpa, Project Manager, Federal Project Section, Bureau of Eastern Remedial Action, Division of Hazardous Waste Remediation, NYSDEC, 50 Wolf Road Albany, New York 12233-7010

Mr. Charles Carrol, Seneca County Department of Health, 31 Thurber Drive Waterloo, New York 13165

200-10-17 CERCLA - Ash Landfill

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Client: SENECA ARMY DEPOT
DEH BUILDING 123
ROMULUS, NY 14541-5001

Date: 06/26/1992

Job No: 92.1008

Attention: MR. MARK PAPROCKI

Purchase Order No: DAAC72-91-V-2
Account Number: 82680

Project: SENECA ARMY DEPOT-QRTLY

Subject: Samples received on 06/10/1992, identified as PT10 through PT-12, PT15 through PT18, PT20 through PT22, PT23 through PT-26, Farm House Deep, Farm House Shallow, Barn Well and Trip Blank.

Project Manager: Bindy Dain

NET - SYRACUSE

Janece F. Lafferty

Janece F. Lafferty
Technical Director

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
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Job No: 92.1008

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SAMPLE NO: 44766

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-10 Time Collected: 10:20

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

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SAMPLE NO: 44767

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-11 Time Collected: 10:35

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

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SAMPLE NO: 44768

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-12 Time Collected: 12:10

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<2.5	ug/L
Bromodichloromethane		<2.5	ug/L
Bromoform		<2.5	ug/L
Bromomethane		<2.5	ug/L
Carbon Tetrachloride		<2.5	ug/L
Chlorobenzene		<2.5	ug/L
Chloroethane		<2.5	ug/L
2-Chloroethylvinyl ether		<2.5	ug/L
Chloroform		<2.5	ug/L
Chloromethane		<2.5	ug/L
Dibromochloromethane		<2.5	ug/L
1,2-Dichlorobenzene		<2.5	ug/L
1,3-Dichlorobenzene		<2.5	ug/L
1,4-Dichlorobenzene		<2.5	ug/L
1,1-Dichloroethane		<2.5	ug/L
1,2-Dichloroethane		<2.5	ug/L
1,1-Dichloroethene		<2.5	ug/L
trans-1,2-Dichloroethene		<2.5	ug/L
1,2-Dichloropropane		<2.5	ug/L
cis-1,3-Dichloropropene		<2.5	ug/L
trans-1,3-Dichloropropene		<2.5	ug/L
Ethylbenzene		<2.5	ug/L
Methylene Chloride		<2.5	ug/L
1,1,2,2-Tetrachloroethane		<2.5	ug/L
Tetrachloroethene		<2.5	ug/L
Toluene		<2.5	ug/L
1,1,1-Trichloroethane		<2.5	ug/L
1,1,2-Trichloroethane		<2.5	ug/L
Trichloroethene		119	ug/L
Trichlorofluoromethane		<2.5	ug/L
Vinyl Chloride		<2.5	ug/L

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SAMPLE NO: 44769

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-15 Time Collected: 10:55

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

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SAMPLE NO: 44770

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-16 Time Collected: 10:48

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

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Job No: 92.1008

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SAMPLE NO: 44771

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-17 Time Collected: 11:48

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		72.4	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
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Job No: 92.1008

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SAMPLE NO: 44772

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-18 Time Collected: 12:20

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<100	ug/L
Bromodichloromethane		<100	ug/L
Bromoform		<100	ug/L
Bromomethane		<100	ug/L
Carbon Tetrachloride		<100	ug/L
Chlorobenzene		<100	ug/L
Chloroethane		<100	ug/L
2-Chloroethylvinyl ether		<100	ug/L
Chloroform		175	ug/L
Chloromethane		<100	ug/L
Dibromochloromethane		<100	ug/L
1,2-Dichlorobenzene		<100	ug/L
1,3-Dichlorobenzene		<100	ug/L
1,4-Dichlorobenzene		<100	ug/L
1,1-Dichloroethane		<100	ug/L
1,2-Dichloroethane		<100	ug/L
1,1-Dichloroethene		<100	ug/L
trans-1,2-Dichloroethene		<100	ug/L
1,2-Dichloropropane		<100	ug/L
cis-1,3-Dichloropropene		<100	ug/L
trans-1,3-Dichloropropene		<100	ug/L
Ethylbenzene		<100	ug/L
Methylene Chloride		<100	ug/L
1,1,2,2-Tetrachloroethane		<100	ug/L
Tetrachloroethene		<100	ug/L
Toluene		<100	ug/L
1,1,1-Trichloroethane		<100	ug/L
1,1,2-Trichloroethane		<100	ug/L
Trichloroethene		7920	ug/L
Trichlorofluoromethane		<100	ug/L
Vinyl Chloride		<100	ug/L

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5854 Butternut Drive
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Job No: 92.1008

****

SAMPLE NO: 44773

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-20 Time Collected: 12:05

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		17.9	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

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SAMPLE NO: 44774

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-21 Time Collected: 11:59

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		2.3	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

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SAMPLE NO: 44775

LABORATORY ANALYSIS REPORT

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-22 Time Collected: 11:52

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		2.4	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		98.9	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

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SAMPLE NO: 44776

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-23 Time Collected: 11:19

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1008

****

SAMPLE NO: 44777

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-24 Time Collected: 11:34

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		6.2	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1008

****

SAMPLE NO: 44778

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-25 Time Collected: 11:09

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
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Job No: 92.1008

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SAMPLE NO: 44779

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : PT-26 Time Collected: 12:15

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1008

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SAMPLE NO: 44780

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : FARM HOUSE-DEEP Time Collected: 13:00

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
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Job No: 92.1008

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SAMPLE NO: 44781

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : FARM HOUSE-SHALLOW Time Collected: 13:10

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

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Job No: 92.1008

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SAMPLE NO: 44782

LABORATORY ANALYSIS REPORT

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Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : BARN WELL Time Collected: 13:30

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1008

****

SAMPLE NO: 44783

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : TRIP BLANK Time Collected: 08:00

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

92-1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44766 JOB NO. 82690

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-10

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 46.2'
DEPTH TO WATER 5.55'
WELL VOLUME 6.50g
METHOD bailed
NO. OF VOLUMES 2.5
TOTAL VOLUME 16g - Dry

ITEM	START	FINISH
TIME		10:30
pH		7
TEMP.		10°C
DEPTH	5.55'	
COLOR	Cl	Lt. Br.
APPEAR	Low Turb	Low Turb

SAMPLING DATE 6-10-92 pH 7.19

TIME 10:20 TEMP. 10°c
METHOD bailed COLOR Clear
CONTAINER 2 vials TURB Low
SAMPLED BY BRM REDOX 203.1 COND 830

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mulder
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
RECIEVED BY #2 Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44767 JOB NO. 92880

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-11

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 19.4'
DEPTH TO WATER 4.71'
WELL VOLUME 2.35 g.
METHOD bailed
NO. OF VOLUMES 2
TOTAL VOLUME 4 g. Dry

ITEM	START	FINISH
TIME		10:45
pH		7
TEMP.		10°C
DEPTH	4.71'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Med Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.18

TIME 10:35 TEMP. 10°C
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BRM REDOX 211.0 COND 1010

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44768 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-12

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 12.3'
DEPTH TO WATER 5.02'
WELL VOLUME 1.17 g.
METHOD bailed
NO. OF VOLUMES 1.5
TOTAL VOLUME 2g-dry

ITEM	START	FINISH
TIME		13:22
pH		7
TEMP.		12°C
DEPTH	5.02'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Med Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.06

TIME 12:10 TEMP. 12°C
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BRM REDOX 218.8 COND 970

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44769 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-15

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		11:09
pH		7
TEMP.		11°c
DEPTH	4.25'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Med Turb	High Turb

WELL DEPTH 19.5'
DEPTH TO WATER 4.25'
WELL VOLUME 2.44g.
METHOD bailed
NO. OF VOLUMES 1.5
TOTAL VOLUME 4g - Dry

SAMPLING DATE 6-10-92 pH 7.38

TIME 10:55 TEMP. 11°c
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BRM REDOX 212.2 COND 540

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mulder
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44770 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-16

LOCATION _____ WELL TYPE/SIZE 2"PVC

EVACUATION DATE 6-9-92

WELL DEPTH 11.5'
DEPTH TO WATER 2.87'
WELL VOLUME 1.38 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 4.5 g.

ITEM	START	FINISH
TIME		10:58
pH		7
TEMP.		12°C
DEPTH	2.87'	
COLOR	Cl	Lt. Br.
APPEAR	Low Turb	Med Turb

SAMPLING DATE 6-10-92 pH 7.25

TIME 10:48 TEMP. 12°C
METHOD bailed COLOR Clear
CONTAINER 2 vials TURB Low
SAMPLED BY BRM REDOX 216.1 COND 570

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihalek
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
RECIEVED BY #2 Chris Miguel DATE 6-10-92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44771 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-17

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 11.5'
DEPTH TO WATER 4.00'
WELL VOLUME 1.20 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 4 g.

ITEM	START	FINISH
TIME		1249
pH		7
TEMP.		11°c
DEPTH	4.00'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Med Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.12

TIME 11:48 TEMP. 11°c
METHOD bailed COLOR Lt. Brown
CONTAINER 2 via TURB med
SAMPLED BY BRM REDOX 222.2 COND 740

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___

PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

MONITORING WELL SAMPLE CHARACTERIZATION AND CHAIN OF CUSTODY SHEET

LAB SAMPLE LOG NO. 44772 JOB NO. 82680

SOURCE

CLIENT: Seneca Army Depot
WELL NO.: PT-18
LOCATION:
WELL TYPE/SIZE: 2" PVC

EVACUATION

DATE: 6-9-92

WELL DEPTH: 11.5'
DEPTH TO WATER: 5.02'
WELL VOLUME: 1.04 g
METHOD: bailed
NO. OF VOLUMES: 2
TOTAL VOLUME: 2g - Dry

ITEM	START	FINISH
TIME		13:30
pH		7
TEMP.		11°c
DEPTH	5.02'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Low Turb	Med Turb

SAMPLING

DATE: 6-10-92

TIME: 12:20
METHOD: bailed
CONTAINER: 2 vials
SAMPLED BY: BRM

pH: 6.88'
TEMP.: 11°c
COLOR: Lt. Brown
TURB: Low
REDOX: 228.8
COND: 1370

PRESERVATION

DATE: 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___

PRESERVED YES X NO ___ TIME ___ BY ___

PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$

X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$

X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE: Brian R Miller
TRANSFERED TO #1
RECIEVED BY: ___ DATE ___ TIME ___
#2
RECIEVED BY: Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES:

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44773 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-20

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		13:14
pH		7
TEMP.		11°C
DEPTH	4.62'	
COLOR	Cl	Lt. Br.
APPEAR	Low Turb	Med Turb

WELL DEPTH 11.5'
DEPTH TO WATER 4.62'
WELL VOLUME 1.10 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 3.5 g.

SAMPLING DATE 6-10-92 pH 7.18

TIME 12:05 TEMP. 11°C
METHOD bailed COLOR Clear
CONTAINER 2 vials TURB Low
SAMPLED BY BRM REDOX 222.9 COND 730

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
RECIEVED BY #2 Chris Meyer DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44774 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-21

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		13:04
pH		7
TEMP.	NONE	10°C
DEPTH	19.2'	
COLOR	Cl	Lt. Br.
APPEAR	Low Turb	Med Turb

WELL DEPTH 19.2'
DEPTH TO WATER 4.95'
WELL VOLUME 2.28g.
METHOD bailed
NO. OF VOLUMES 1
TOTAL VOLUME 2.5g-Dry

SAMPLING DATE 6-10-92 pH 7.36

TIME 11:59 TEMP. 10°C
METHOD bailed COLOR Clear
CONTAINER 2 vials TURB Low
SAMPLED BY BRM REDOX 210.0 COND 970

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihlan
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44775 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-22

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 11.5'
DEPTH TO WATER 4.77'
WELL VOLUME 1.08 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 3.5g.

ITEM	START	FINISH
TIME		12:57
pH		7
TEMP.		11°C
DEPTH	4.77'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Low Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.12

TIME 11:52 TEMP. 11°C
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Low
SAMPLED BY BRM REDOX 214.1 COND 920

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___

PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihlfeld
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Meyer DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44776 JOB NO. 92480

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-23

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		11:53
pH		7
TEMP.		11°c
DEPTH	4.19'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Med Turb	High Turb

WELL DEPTH 12'
DEPTH TO WATER 4.19'
WELL VOLUME 1.25gal.
METHOD bailed
NO. OF VOLUMES 1.5
TOTAL VOLUME 2gal. - Dry

SAMPLING DATE 6-10-92 pH 7.35

TIME 11:19 TEMP. 11°c
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BRM REDOX 210.9 COND 550

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1
RECIEVED BY ___ DATE ___ TIME ___
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: ___

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44777 JOB NO. 82686

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-24

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 11.8'
DEPTH TO WATER 4.29'
WELL VOLUME 1.20 gal.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 4 gal.

ITEM	START	FINISH
TIME		12:17
pH		7
TEMP.		11°C
DEPTH	4.29'	
COLOR	Lt. Br.	Lt. Br
APPEAR	Med Turb	Med Turb

SAMPLING DATE 6-10-92 pH 7.27

TIME 11:34 TEMP. 11°C
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BRM REDOX 218.2 COND 650

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44778 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-25

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 12'
DEPTH TO WATER 3.36'
WELL VOLUME 1.38 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 4.5 g.

ITEM	START	FINISH
TIME		11:36
pH		7
TEMP.		11°c
DEPTH	3.36'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Med Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.17

TIME 11:09 TEMP. 11°c
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BRM REDOX 216.5 COND 540

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1008

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44779 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. PT-26

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 14'
DEPTH TO WATER 2.96'
WELL VOLUME 1.77 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 5.5 g.

ITEM	START	FINISH
TIME		14:06
pH		7
TEMP.		10°C
DEPTH	2.96'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	High Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.11

TIME 12:15 TEMP. 10°C
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB High
SAMPLED BY BRM REDOX 218.4 COND 900

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihlbr
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Formerly: NET Northeast, Inc.

92.1008

SAMPLE CHARACTERIZATION/CHAIN OF CUSTODY INFORMATION

CLIENT Seneca Army Depot CLIENT # 82680

CLIENT CONTACT _____ PHONE ( ) _____

P.O. # _____ LOG # 44780

SAMPLING:

SAMPLE ID: Farm House - Deep LOCATION: _____

SAMPLE TYPE: ___ SOIL X WATER ___ OIL ___ SEDIMENT ___ WIPE
OTHER _____

COLLECTION METHOD: ___ 24HR COMPOSITE X MANUAL GRAB ___ WIPE
___ FLOW COMPOSITE OTHER _____

COMPOSITE:
SET: DATE _____ TIME _____ BY _____
PICKED UP: DATE _____ TIME _____ BY _____

MANUAL GRAB: DATE 6-10-92 TIME 13:00 BY BRM

FLOW: _____ UNITS: ___ GPM ___ GPD ___ MGD

PRESERVATION:

DATE 6-10-92 TIME _____ BY _____

PRESERVATIVE: ___ H_2SO_4 ___ HNO_3 ___ NaOH X HCl ___ $Na_2S_2O_3$
X COOLED TO 4 DEGREES CELSIUS ___ TEFLON LINER
OTHER _____

CONTAINERS:

2 vials

NOTES: pH - 8.15, Temp - 13°c, Cond - 820, Redox = 81.9

CUSTODY:

COLLECTED BY: Brian R. Mihler DATE: 6-10-92

DELIVERED BY: _____ DATE: _____ TIME: _____

RECEIVED BY: Chris Miguel DATE: 6-10-92 TIME: 4:30 pm

LOGGED IN BY: _____ DATE: _____ TIME: _____

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Formerly: NET Northeast, Inc.

92.1008

SAMPLE CHARACTERIZATION/CHAIN OF CUSTODY INFORMATION

CLIENT Seneca Army Depot CLIENT # 82680

CLIENT CONTACT _____ PHONE ( ) _____

P.O. # _____ LOG # 44781

SAMPLING:

SAMPLE ID: Farm House - Shallow LOCATION: _____

SAMPLE TYPE: ___ SOIL X WATER ___ OIL ___ SEDIMENT ___ WIPE
OTHER _____

COLLECTION METHOD: ___ 24HR COMPOSITE X MANUAL GRAB ___ WIPE
___ FLOW COMPOSITE OTHER _____

COMPOSITE:
SET: DATE _____ TIME _____ BY _____
PICKED UP: DATE _____ TIME _____ BY _____

MANUAL GRAB: DATE 6-10-92 TIME 1310 BY BRM

FLOW: _____ UNITS: ___ GPM ___ GPD ___ MGD

PRESERVATION:

DATE 6-10-92 TIME _____ BY _____

PRESERVATIVE: ___ H_2SO_4 ___ HNO_3 ___ NaOH X HCl ___ $Na_2S_2O_3$
X COOLED TO 4 DEGREES CELSIUS ___ TEFLON LINER
OTHER _____

CONTAINERS:

2 vials

NOTES: pH - 7.32, Temp - 13°C, Cond - 860, Redox = 154.4

CUSTODY:

COLLECTED BY: Brian R. Mihley DATE: 6-10-92

DELIVERED BY: _____ DATE: _____ TIME: _____

RECEIVED BY: Chris Miguel DATE: 6/10/92 TIME: 4:30 pm

LOGGED IN BY: _____ DATE: _____ TIME: _____

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Formerly: NET Northeast, Inc.

92.1008

SAMPLE CHARACTERIZATION/CHAIN OF CUSTODY INFORMATION

CLIENT Seneca Army Depot CLIENT # 82680

CLIENT CONTACT _____ PHONE ( ) _____

P.O. # _____ LOG # 44782

SAMPLING:

SAMPLE ID: Barn Well LOCATION: _____

AMPLE TYPE: ___ SOIL X WATER ___ OIL ___ SEDIMENT ___ WIPE
OTHER _____

COLLECTION METHOD: ___ 24HR COMPOSITE X MANUAL GRAB ___ WIPE
___ FLOW COMPOSITE OTHER _____

COMPOSITE:
SET: DATE _____ TIME _____ BY _____
PICKED UP: DATE _____ TIME _____ BY _____

MANUAL GRAB: DATE 6-10-92 TIME 1330 BY _____

FLOW: _____ UNITS: ____ GPM ____ GPD ____ MGD

PRESERVATION:

DATE 6-10-92 TIME _____ BY _____

PRESERVATIVE: ___ H_2SO_4 ___ HNO_3 ___ NaOH X HCl ___ $Na_2S_2O_3$
X COOLED TO 4 DEGREES CELSIUS ___ TEFLON LINER
OTHER _____

CONTAINERS:

2 vials

NOTES: pH - 7.34, Temp - 12°c, Cond - 560, Redox = 148.2

CUSTODY:

COLLECTED BY: Brian R. Mihler DATE: 6-10-92

DELIVERED BY: _____ DATE: _____ TIME: _____

RECEIVED BY: Chris Myers DATE: 6/10/92 TIME: 4:30 pm

LOGGED IN BY: _____ DATE: _____ TIME: _____

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Formerly: NET Northeast, Inc.

92.1008

SAMPLE CHARACTERIZATION/CHAIN OF CUSTODY INFORMATION

CLIENT Seneca Army Depot CLIENT # 82680

CLIENT CONTACT _____ PHONE ( ) _____

P.O. # _____ LOG # 44783

SAMPLING:

SAMPLE ID: Trip LOCATION: _____

SAMPLE TYPE: ___ SOIL X WATER ___ OIL ___ SEDIMENT ___ WIPE
OTHER _____

COLLECTION METHOD: ___ 24HR COMPOSITE X MANUAL GRAB ___ WIPE
___ FLOW COMPOSITE OTHER _____

COMPOSITE:
SET: DATE _____ TIME _____ BY _____
PICKED UP: DATE _____ TIME _____ BY _____

MANUAL GRAB: DATE 6-10-92 TIME 0800 BY _____

FLOW: _____ UNITS: ___ GPM ___ GPD ___ MGD

PRESERVATION:

DATE 6-10-92 TIME _____ BY _____

PRESERVATIVE: ___ H_2SO_4 ___ HNO_3 ___ NaOH X HCl ___ $Na_2S_2O_3$
X COOLED TO 4 DEGREES CELSIUS ___ TEFLON LINER
OTHER _____

CONTAINERS:

2 vials

NOTES:

CUSTODY:

COLLECTED BY: Brian R. Mihler DATE: 6-10-92

DELIVERED BY: _____ DATE: _____ TIME: _____

RECEIVED BY: Chris Megan DATE: 6/10/92 TIME: 4:30p

LOGGED IN BY: _____ DATE: _____ TIME: _____

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Client: SENECA ARMY DEPOT
DEH BUILDING 123
ROMULUS, NY 14541-5001

Date: 06/23/1992

Job No: 92.1007

Attention: MR. MARK PAPROCKI

Purchase Order No: DAAC72-91-V-2
Account Number: 82680

Project: SENECA ARMY DEPOT

Subject: Samples received on 06/10/1992, identified as MW-27 through MW-33.

Project Manager: Bindy Dain

NET - SYRACUSE

Janece F. Lafferty
Technical Director

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1007

****

SAMPLE NO: 44759

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : MW-27 Time Collected: 11:24

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1007

****

SAMPLE NO: 44760

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : MW-28 Time Collected: 11:29

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		25.8	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1007

****

SAMPLE NO: 44761

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : MW-29 Time Collected: 11:39

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1007

****

SAMPLE NO: 44762

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : MW-30 Time Collected: 11:43

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1007

****

SAMPLE NO: 44763

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : MW-31 Time Collected: 11:14

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1007

****

SAMPLE NO: 44764

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : MW-32 Time Collected: 11:04

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.

Syracuse Division
5854 Butternut Drive
East Syracuse, NY 13057
Tel: (315) 446-8795
Fax: (315) 449-1611

Job No: 92.1007

****

SAMPLE NO: 44765

LABORATORY ANALYSIS REPORT

****

Date Received : 06/10/1992 Date Collected: 06/10/1992

LOCATION : MW-33 Time Collected: 11:00

PARAMETER		RESULTS	UNITS
Volatiles by GC/MS 624	AQ		
Benzene		<1.0	ug/L
Bromodichloromethane		<1.0	ug/L
Bromoform		<1.0	ug/L
Bromomethane		<1.0	ug/L
Carbon Tetrachloride		<1.0	ug/L
Chlorobenzene		<1.0	ug/L
Chloroethane		<1.0	ug/L
2-Chloroethylvinyl ether		<1.0	ug/L
Chloroform		<1.0	ug/L
Chloromethane		<1.0	ug/L
Dibromochloromethane		<1.0	ug/L
1,2-Dichlorobenzene		<1.0	ug/L
1,3-Dichlorobenzene		<1.0	ug/L
1,4-Dichlorobenzene		<1.0	ug/L
1,1-Dichloroethane		<1.0	ug/L
1,2-Dichloroethane		<1.0	ug/L
1,1-Dichloroethene		<1.0	ug/L
trans-1,2-Dichloroethene		<1.0	ug/L
1,2-Dichloropropane		<1.0	ug/L
cis-1,3-Dichloropropene		<1.0	ug/L
trans-1,3-Dichloropropene		<1.0	ug/L
Ethylbenzene		<1.0	ug/L
Methylene Chloride		<1.0	ug/L
1,1,2,2-Tetrachloroethane		<1.0	ug/L
Tetrachloroethene		<1.0	ug/L
Toluene		<1.0	ug/L
1,1,1-Trichloroethane		<1.0	ug/L
1,1,2-Trichloroethane		<1.0	ug/L
Trichloroethene		<1.0	ug/L
Trichlorofluoromethane		<1.0	ug/L
Vinyl Chloride		<1.0	ug/L

92.1007

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 4475G JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. MW-27

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		12:00
pH		7
TEMP.	[illegible]	12°c
DEPTH	5.21'	
COLOR	Dk. Br.	Dk Br.
APPEAR	Med Turb	High Turb

WELL DEPTH 10.5'

DEPTH TO WATER 5.21'

WELL VOLUME .85g.

METHOD bailed

NO. OF VOLUMES 1

TOTAL VOLUME 1g - Dry

SAMPLING DATE 6-10-92 pH 7.20

TIME 11:24 TEMP. 12°c

METHOD bailed COLOR Dk. Brown

CONTAINER 2 vials TURB Med

SAMPLED BY BRM REDOX 74.0 COND 690

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___

PRESERVED YES X NO ___ TIME ___ BY ___

PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$

X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$

X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler

TRANSFERED TO #1 _____

RECIEVED BY _____ DATE _____ TIME _____

#2

RECIEVED BY Chris Meyer DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.100 1

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44760 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. MW-28

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 10.5'
DEPTH TO WATER 4.13'
WELL VOLUME 1.02 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 4 g.

ITEM	START	FINISH
TIME		12:09
pH		7
TEMP.		11°C
DEPTH	4.13'	
COLOR	Dk. Br.	Dk Br.
APPEAR	Med Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.07

TIME 11:29 TEMP. 11:29
METHOD bailed COLOR Dk. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BRM REDOX 122.6 COND 650

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R Mehler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.108'1

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44761 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. MW-29

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		12:27
pH		7
TEMP.	100	10°C
DEPTH	5.74'	
COLOR	Dk. Br.	Dk. Br.
APPEAR	High Turb	High Turb

WELL DEPTH 10.5'
DEPTH TO WATER 5.74'
WELL VOLUME .76 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 2.5g.

SAMPLING DATE 6-10-92 pH 7.00

TIME 11:39 TEMP. 10°C
METHOD bailed COLOR Clear
CONTAINER 2 vials TURB Low
SAMPLED BY BRM REDOX 136.5 COND 770

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6-10-92 TIME 4:30 pm

FIELD NOTES: _____

92.1007

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44762 JOB NO. 42680

SOURCE

CLIENT Seneca Army Depot WELL NO. MW-30

LOCATION _____ WELL TYPE/SIZE 2"PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		12:37
pH		7
TEMP.		12°C
DEPTH	3.99'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	Med Turb	High Turb

WELL DEPTH 10.5'
DEPTH TO WATER 3.99'
WELL VOLUME 1.04 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 3.5g.

SAMPLING DATE 6-10-92 pH 7.12

TIME 11:43 TEMP. 12°C
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB Med
SAMPLED BY BAM REDOX 132.7 COND 760

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6-10-92 TIME 4:30 pm

FIELD NOTES: _____

92.1007

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44763 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. ~~MW~~-31

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 10.5'
DEPTH TO WATER 2.26'
WELL VOLUME 1.32 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 4 g.

ITEM	START	FINISH
TIME		11:45
pH		7
TEMP.		11°C
DEPTH	2.26'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	High Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.18

TIME 11:14 TEMP. 11°C
METHOD Bailed COLOR Lt. Brown
CONTAINER 2 vials TURB High
SAMPLED BY BAM REDOX 139.4 COND 490

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92.1007

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44764 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. MW-32

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

ITEM	START	FINISH
TIME		11:27
pH		7
TEMP.		10°C
DEPTH	3.81'	
COLOR	Dk. Br.	Dk. Br.
APPEAR	High Turb	High Turb

WELL DEPTH 10.5'
DEPTH TO WATER 3.81'
WELL VOLUME 1.07 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 3.5g.

SAMPLING DATE 6-10-92 pH 7

TIME 11:04 TEMP. 10°C
METHOD bailed COLOR Dk. Brown
CONTAINER 2 vials TURB High
SAMPLED BY BRM REDOX 144.5 COND 740

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. Mihler
TRANSFERED TO #1 _____
RECIEVED BY _____ DATE ___ TIME ___
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES: _____

92-1007

NET

MONITORING WELL
SAMPLE CHARACTERIZATION AND
CHAIN OF CUSTODY SHEET

5854 BUTTERNUT DRIVE
EAST SYRACUSE, NY
13057
(315) 446-8795

LAB SAMPLE LOG NO. 44765 JOB NO. 82680

SOURCE

CLIENT Seneca Army Depot WELL NO. MW-33

LOCATION _____ WELL TYPE/SIZE 2" PVC

EVACUATION DATE 6-9-92

WELL DEPTH 10.5'
DEPTH TO WATER 3.67'
WELL VOLUME 1.09 g.
METHOD bailed
NO. OF VOLUMES 3
TOTAL VOLUME 4 g.

ITEM	START	FINISH
TIME		11:18
pH		7
TEMP.		11°C
DEPTH	3.67'	
COLOR	Lt. Br.	Lt. Br.
APPEAR	High Turb	High Turb

SAMPLING DATE 6-10-92 pH 7.00

TIME 11:00 TEMP. 11°C
METHOD bailed COLOR Lt. Brown
CONTAINER 2 vials TURB High
SAMPLED BY BRM REDOX 147.0 COND 610

PRESERVATION DATE 6-10-92

FILTERED YES ___ NO X TIME ___ BY ___
PRESERVED YES X NO ___ TIME ___ BY ___
PRESERVATIVE ___ H_2SO_4 ___ HNO_3 ___ NaOH ___ $H_3PO_4+C_2SO_4$
X HCL ___ SOD. THIO. ___ $Zn(C_2H_3O_2)$
X COOLED TO 4 C ___ OTHER ___

CUSTODY

SAMPLERS SIGNATURE Brian R. McNeil
TRANSFERED TO #1
RECIEVED BY _____ DATE _____ TIME _____
#2
RECIEVED BY Chris Miguel DATE 6/10/92 TIME 4:30 pm

FIELD NOTES:

DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5422

REPLY TO
ATTENTION OF

HSHB-ME-SR (40)

23 OCT 1992

Jim Mi
info

MEMORANDUM FOR Division Engineer, U.S. Army Engineering Division - Huntsville, ATTN: CEHND-ED-CS (Mr. Healy), P.O. Box 1600, Huntsville, AL 35807-4301

SUBJECT: Draft Response to Comments from the EPA and New York State, Work Plan for the Ash Landfill, Remedial Investigation Feasibility Study, Seneca Army Depot, Romulus, New York, 4 September 1992

1. This document does not have to be resubmitted to the USAEHA for further review because of the minor nature of our concerns. Our detailed comments and recommendations are provided in the enclosure.

2. The engineers and scientists reviewing this document were: CPT David Martin, Air Pollution Engineering Division; Mr. Richard Valdivia, Water Quality Engineering Division; Mr. Robert Berkshire, Organic and Environmental Chemistry Division, Ms. Kim Fleischmann and Mr. Keith Hoddinott, Waste Disposal Engineering Division. The point of contact for technical questions is Mr. Hoddinott. Additional comments and concerns may be directed to MAJ William E. Legg, DSN 584-2953 or commercial (410) 671-2953.

FOR THE COMMANDER:

John W. Bauer
for WILLIAM T. BROADWATER
LTC, MS
Chief, Waste Disposal
Engineering Division

Encl

CF (w/encl):
HQDA(SGPS-PSP-E)
CDR, HSC, ATTN: HSCL-P
CDR, AMC, ATTN: AMCEN-A
CDR, Seneca AD, ATTN: SDSSE-HE

DETAILED COMMENTS AND RECOMMENDATIONS
DRAFT RESPONSE TO COMMENTS FROM THE EPA AND NEW YORK STATE
WORK PLAN FOR THE ASH LANDFILL
REMEDIAL INVESTIGATION FEASIBILITY STUDY
SENECA ARMY DEPOT, ROMULUS, NEW YORK
4 SEPTEMBER 1992

1. Page 6, Comment p3-13, Mr. Hoddinott

Comment: The 0.25 effective porosity would be extremely low for a sandy till with few fines. For a soil of a similar description, effective porosities up to 0.60 can be achieved. An effective porosity of 0.25 indicates that a significant amount of the pore space forms a "dead end". This type of behavior can only be achieved with the sub-silt sized particles. While a smaller effective porosity would be more conservative, the 0.25 value would be appropriate for a till of high silt content such as exists in central New York State.

Recommendation: The lowering of the effective porosity could be accomplished to make the investigation more conservative but it is not clear that the lower effective porosity would be more correct.

EVCL

ENGINEERING-SCIENCE, INC.

Prudential Center • Boston, Massachusetts 02199 • (617) 859 2576 • Telex

November 18, 1992
720229-05000

Mr. Kevin Healy
U.S. Army Corps of Engineers
Huntsville Division
106 Wynn Drive
P.O. Box 1600
Huntsville, AL 35805

SUBJECT: **Ash Landfill Phase II Field Investigation,**
Seneca Army Depot, Romulus, NY

Dear Mr. Healy:

Engineering-Science, Inc. (ES) has reviewed the comments prepared by both the New York State Department of Environmental Conservation (NYSDEC) and the Environmental Protection Agency (EPA) on the proposed Phase II field program for the Ash Landfill. NYSDEC's letter approved the proposed Phase II field investigation with no changes. EPA's comment letter of November 10, 1992 outlined six recommendations for the proposed Phase II field investigation. ES's responses to these recommendations are provided below.

Comment 1: MAIN does not adequately describe the potential hazards associated with coring to depths of 100 feet below ground surface. MAIN indicates that the potential for vertical cross-contamination within the bedrock aquifer during Phase II coring, geophysics, etc. it expected to be minimal. EPA disagrees with this assessment.

We are not convinced that open-hole rock coring to 100 feet in competent bedrock would not create a contaminant migration pathway. The concern is that once the first fracture zone is encountered within each deep bedrock corehole, the likelihood that cross-contamination within the bedrock aquifer increases with depth. Therefore, we suggest that MAIN consider an alternate approach such as coring down only to the first significant water-bearing fracture zone, and subsequently installing each deep bedrock well screen to intercept this zone. This will enable these deep wells to effectively intercept potential vertical contaminant migration from shallower depths, without exposing deeper, uncontaminated fractures.

Response 1: Agreed. ES proposes to modify the drilling and testing procedures outlined in the proposed Phase II workplan to address the issues presented by EPA. The new drilling and testing procedure will consist of rock coring combined with packer testing to determine hydraulic conductivity and hydraulic head in discrete 20-foot zones. The coring and aquifer testing will continue to a depth of 100 feet or until the "first significant water-bearing fracture zone" is encountered. For the purposes of this

investigation, "significant water-bearing fracture zone" will be defined as any 20-foot zone of competent bedrock that exhibits a hydraulic conductivity equal to or greater than 1.0×10^{-6} cm/sec.

This value was chosen as it is representative of hydraulic conductivities in a "significant water bearing fracture zone" in existing competent bedrock wells installed during the phase 1 investigation. These wells recovered from sampling within one to two hours after purging to near dryness and in ES's opinion are indicative of the cut-off point for the definition of a "significant water-bearing fracture zone."

In order to avoid cross-contamination of the bedrock, ES proposes to install triple cased bedrock wells. The specific procedure for installation of the deep bedrock wells will be as follows:

1. Drive 6 inch steel casing set up to 2 feet into the top of competent bedrock. This will isolate the overburden from the bedrock system.

2. Using an air hammer, drill for a depth of 20 feet into competent bedrock and set a 4 inch steel casing 20 feet into competent bedrock. The annular spacing between the outer and inner casing will be grouted to the surface. This will isolate the upper 20 feet of bedrock.

3. Collect a core from the 20-40 foot zone below the 4 inch casing.

4. Set a single packer immediately below the 4 inch steel casing to isolate the 20-40 foot zone in competent bedrock.

5. Perform hydraulic conductivity testing and determine hydraulic head for this discrete 20-foot zone. If the hydraulic conductivity for this zone is 1.0×10^{-6} cm/sec or greater then no further coring will be performed in this hole and a 2-inch diameter 20 foot PVC well screen will be installed in this zone. If the hydraulic conductivity value is less than 1.0×10^{-6} cm/sec, then coring in the same hole will continue.

6. Core the 40 to 60 foot section of competent bedrock and repeat step 5 above.

7. Coring and packer testing will continue in 20 foot intervals until a hydraulic conductivity value greater than 1.0×10^{-6} cm/sec is obtained or until a total depth of 100 feet below the ground surface is reached.

8. If the 100 foot depth is reached, the core hole will be grouted to the base of the 20-foot interval which yielded the highest hydraulic conductivity value and a 2-inch diameter 20-foot PVC well screen will be installed in this interval.

Comment 2: MAIN does not effectively differentiate between the till and the weathered shale materials, and consequently does not provide a strategy for determining the screening interval for shallow monitoring wells within the till/weathered shale aquifer.

The weathered shale is expected to maintain a higher hydraulic conductivity as compared to the glacial till, thereby making the weathered shale the preferential pathway. Shallow well screens should be installed in one formation or the other but not both, since the utility of the hydraulic conductivity data would be greatly reduced if well screens were installed across both formations. If MAIN proposes to screen both formations, justifications should be provided that materials are sufficiently similar to preclude the need for separate well screens.

Response 2: Disagree. ES proposes to screen the overburden monitoring wells at the Ash Landfill across both the weathered shale and the glacial till units. Up to ten feet of screen will be installed in each well with the base of the screen set just above the competent shale.

ES believes that based upon available data these two geologic units are sufficiently similar to preclude the need for multiple wells and screens. Attachment B is a revised version of Table 3-8 of the PSCR for the Open Burning Grounds. This table summarizes hydraulic conductivity testing performed on glacial till and weathered shale wells at the OB Grounds site. As shown, the hydraulic conductivities for the 6 on-site glacial till wells averaged 1.08×10^{-4} cm/sec based upon the calculation method of Bouwer and Rice. The 10 on-site weathered shale wells have an average K valve of 2.85×10^{-4} cm/sec. ES believes that these data support the treatment of both geologic units as one aquifer system since the geologic units at both sites are identical.

Comment 3: According the Section 4.0 of the Revised RI/FS Work Plan, the installation of up to three 100-foot deep bedrock wells is contingent on the volatile organic compound (VOC) screening results in three shallower competent bedrock wells (approximately 20 feet deep) proposed to be installed at similar locations. If no VOCs are detected in the shallower bedrock well(s), the deeper bedrock well(s) will not be installed. EPA does not concur with this methodology.

Given the current lack of information regarding hydrologic and water quality characteristics of the deep bedrock layer (i.e., degree of fracturing, fracture orientation, ground water etc.) we suggest that MAIN install at least three deep bedrock wells to the first water bearing fracture regardless of whether VOCs are detected in the shallow bedrock wells.

Response 3: Agreed. ES will install the deeper bedrock wells as part of the Phase 2 field investigation. The installation of those wells will not be contingent on headspace screening for VOCs.

Comment 4: EPA recommended additional soil borings in the immediate vicinity of B15-91 and Wetland W-B to further define the extent of VOCs in this area. MAIN indicated that a maximum of four soil borings will be performed in this area.

The concern is that MAIN may not have proposed a sufficient number of borings to adequately delineate the lateral extent of VOC contamination in this source area. We suggest that MAIN conduct compound-specific field screening using a portable GC of soils from split spoons so that the source boundaries are delineated in both lateral and vertical directions. Based on initial screening results, additional soil borings could be drilled along a line perpendicular to the interpreted source boundary until the source boundary is located. Boring spacing could be determined during Phase II field work, depending on such factors as ground water gradients, contaminant concentrations, and subsurface stratigraphy.

Response 4: Agreed. ES will perform 4 additional borings in the vicinity of the B15-91 and Wetland W-B to further define the source boundaries for VOC's. These four borings will supplement the four boring already proposed for this area. Prior to performing these eight borings, ES will conduct a soil gas survey cris crossing the North-South and East-West profiles. The soil gas points will be at 50-foot centers along these profiles beginning at B15-91. The soil gas points will be performed along each profile until two successive samples contain less than 100 ppb of a combined concentration of TCE and DCE, as these are the principle volatile compounds in the source area. Two borings will be performed along the profiles at the northern, southern, eastern and western boundaries as defined by the soil gas survey. Specifically, one boring will be performed at the outermost soil gas point within the source area and second boring will be performed at the next successive soil gas point outside the source area (i.e., the first of two successive soil gas samples with a concentration of 100 ppb or less). ES anticipates that four soil samples will be collected from each boring, one at the surface and three from the subsurface. Since four borings were originally proposed, four additional borings will be added yielding a total of 32 soil samples.

Comment 5: EPA commented that additional monitoring well pairs be installed along the western and southwestern edge of the interpreted ground water plume emanating from the western portion of the Ash Landfill. MAIn responded by proposing a single monitoring well cluster (MW-47, MW-51D, MW-52D) along the western edge of the contaminant plume.

While we agree with the placement of a well cluster along the western edge of the contaminant plume, we recommend that additional monitoring wells (i.e., overburden and bedrock) be installed along the southwestern edge of this plume to provide adequate water quality coverage in this area, as previously recommended by EPA.

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Response 5: Agreed. ES proposed to move the monitoring well cluster MW-47/MW-51D/MW-52D approximately 300 feet to the North while adding a monitoring well cluster at the suspected center of the toe of the groundwater plume. Attachment C shows the new location for well cluster MW-47/MW-51D/MW-52D and the location of the proposed additional well cluster. The bedrock wells within each of these clusters will be installed following the procedures described in Response #1.

Comment 6: EPA commented that additional geophysical surveys employing very low frequency (VLF), electric resistivity, or seismic refraction should be considered in order to better define contaminant migration pathways. MAIN responded by proposing three seismic transects at undisclosed locations to identify on-site bedrock fractures.

Although a seismic survey may be useful in identifying bedrock fracture locations, a VLF survey may be a more precise method for identifying potential subsurface fractures. VLF also has the potential to identify fracture orientation off the vertical, so that shallow and deep bedrock monitoring wells can be more effectively located.

Response 6: Agreed. ES will conduct a Very Low Frequency Electromagnetic (VLF-EM) survey to map the presence of fractures at the Ash Landfill site. The VLF survey will be grid based with profiles spaced at 50 foot intervals and samples collected at 10 foot intervals along each profiles. ES will layout and survey 12 profiles, running West-East, to the north of the West Smith Farm Road. These profiles will each be 1000 feet in length.

If you have any questions about these responses, please do not hesitate to call me.

Very truly yours,

ENGINEERING-SCIENCE, INC.

Michael Duchesneau, P.E.
Project Manager

Response Requested _Yes _No
Date Requested _____

MD/cmf/D#9

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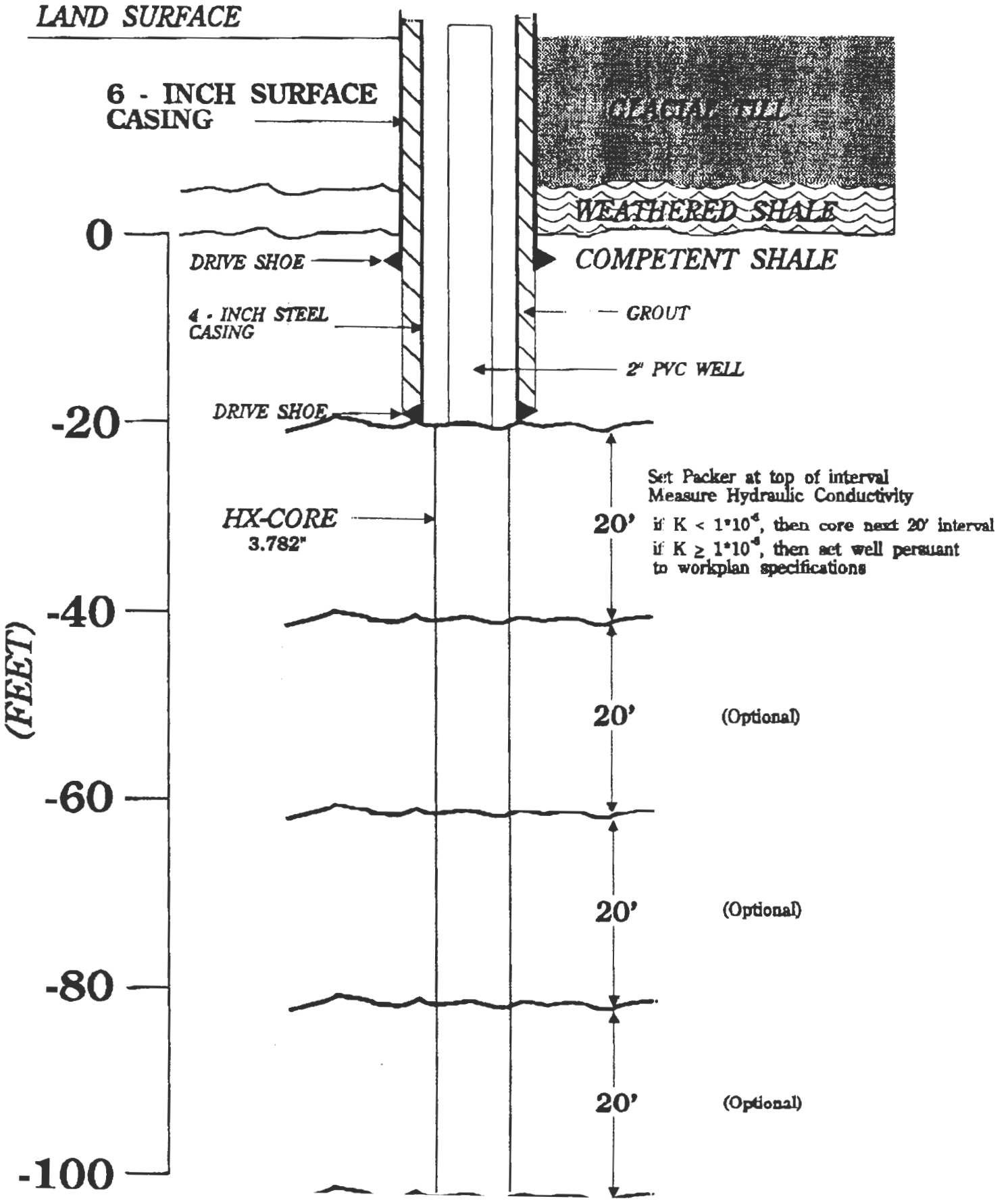
ATTACHMENT A

SENECA ARMY DEPOT DEEP BEDROCK WELL INSTALLATION SCHEME



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ATTACHMENT B

SENECA ARMY DEPOT OB GROUNDS REVISED
REVISED 11-18-1992

TABLE 3-8

Hydraulic Conductivity Values For Rising Head Slug Tests
OB Grounds
(cm/sec)

Monitoring Well	Bouwer and Rice (1976)	Horslev (1951)	Average
MW-1 (1)	1.643E-06	5.000E-04	2.508E-04
MW-5 (1)	3.546E-05	2.000E-04	1.177E-04
MW-6 (1)	8.947E-07	8.000E-05	4.045E-05
MW-7 (1)	5.180E-06	3.000E-04	1.526E-04
MW-8 (2)	7.884E-06	7.000E-05	3.894E-05
MW-10 (2)	1.401E-05	2.000E-04	1.070E-04
MW-11 (2)	4.602E-04	2.000E-03	1.230E-03
MW-14 (2)	7.546E-05	4.000E-04	2.377E-04
MW-18 (3)	5.893E-05	6.000E-04	3.295E-04
MW-21 (3)	1.285E-05	6.000E-05	3.642E-05
MW-22 (3)	6.839E-05	2.000E-04	1.342E-04
MW-23 (3)	4.713E-04	4.000E-03	2.236E-03
MW-24 (2)	4.976E-05	1.590E-05	3.283E-05
MW-25 (3)	2.680E-04	1.040E-05	1.392E-04
MW-27 (3)	3.542E-04	2.730E-04	3.136E-04
MW-28 (3)	4.156E-05	9.140E-05	6.648E-05
MW-29 (2)	4.371E-05	2.000E-03	1.022E-03
MW-30 (3)	1.438E-03	5.200E-03	3.319E-03
MW-31 (3)	1.003E-04	2.450E-04	1.726E-04
MW-32 (3)	3.457E-05	1.000E-04	6.728E-05
Site Average:	1.771E-04	8.273E-04	2.643E-04
Till:	1.085E-04	7.810E-04	4.447E-04
W. Shale:	2.848E-04	1.078E-03	6.814E-04

Notes:
(1) Well construction details not available
(2) Well screened in glacial till
(3) Well screened in weathered shale

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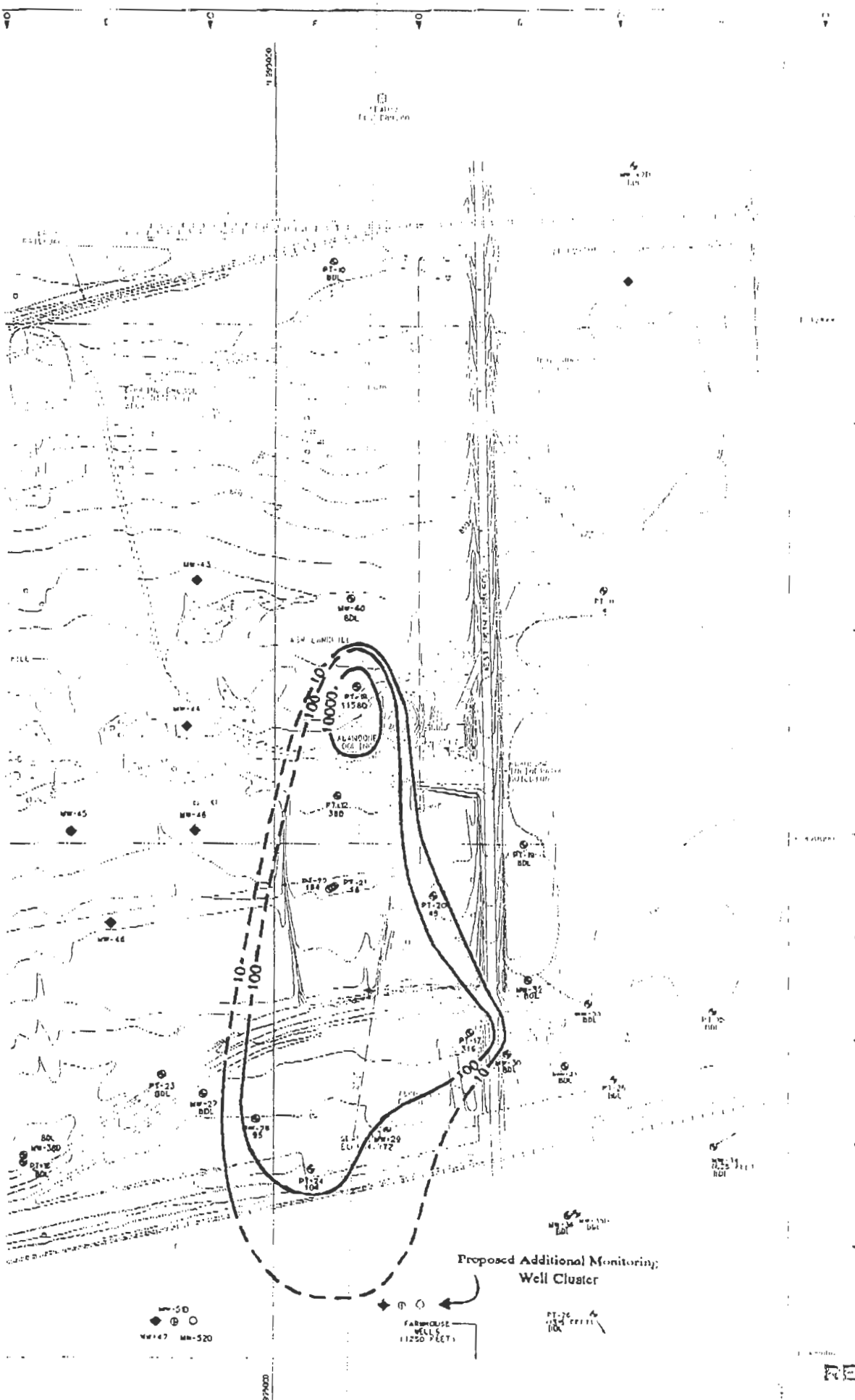
ATTACHMENT C



NOTES:

1. THIS FIGURE SHOWS TOTAL VOLATILE ORGANICS IN THE SHALLOW TILL/WEATHERED SHALE AQUIFER.
2. RESULTS FROM MONITORING WELLS SCREENED IN COMPETENT SHALE (PT-21, MW-35D, MW-36D, MW-41D, AND MW-42D) WERE NOT USED TO DRAW CONTOURS OF TOTAL VOLATILES IN THE SHALLOW WEATHERED SHALE AND TILL AQUIFER.
3. WELLS PT-10, PT-21, MW-35D, MW-36D, MW-41D AND MW-42D ARE SCREENED IN COMPETENT SHALE (DEEP AQUIFER).

REFERENCE:

DRAFT PRELIMINARY SITE CHARACTERIZATION REPORT AT THE ASH LANDFILL C. T. MAIN APRIL 1992

LEGEND:

- PHASE II SHALLOW TILL/WEATHERED SHALE MW
- PHASE II BEDROCK MW
- PHASE II DEEP BEDROCK MW
- MONITORING WELL & DESIGNATION WITH CONCENTRATION OF TOTAL VOLATILE ORGANICS IN ppb
- PAVED ROAD
- DIRT ROAD
- GROUND CONTOUR AND ELEVATION
- UTILITY POLE
- APPROXIMATE EXTENT OF FILL
- TREE
- BRUSH
- APPROXIMATE LOCATION OF FIRE HYDRANT
- UNDERGROUND STORAGE TANK
- WETLAND & DESIGNATION
- TOTAL VOLATILE ORGANICS CONCENTRATION CONTOUR WHERE DETERMINED WITH CONCENTRATION
- BDL BELOW DETECTION LIMIT
- MONUMENT

MAIN

CHAS. T. MAIN, INC.

ENVIRONMENTAL ENGINEERING

SENECA ARMY DEPOT
WORK PLAN ADDENDUM
RI/FS
ASH LANDFILL

FIGURE 4.2-1b
LOCATION OF PHASE II SHALLOW AND DEEP MONITORING WELLS

REVISED

927159-03000 A