

SIXTH QUARTERLY REPORT

SECOND YEAR OF GROUNDWATER
TREATMENT FACILITY OPERATION

VOLUME 2 OF 2

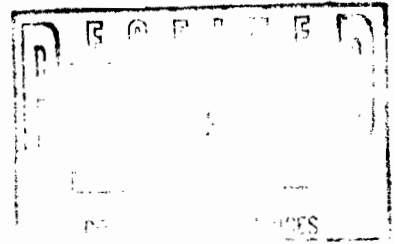


TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS

Prepared By:
The Town of Oyster Bay
Division of Environmental Control

April 1994

SIXTH QUARTERLY REPORT



SECOND YEAR

OF

GROUNDWATER TREATMENT FACILITY OPERATION

**TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS**

**Prepared By:
Town of Oyster Bay
Division of Environmental Control**

April 1994

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February 1994

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Self-Monitoring Organic Analyses

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 2, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	188.73
Benzene (ND)	0	3.76
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.78
Chlorodibromomethane	50***	0
Chloroethane	5	0.65
Chloroform	100***	3.04
Dichlorobenzene, o&p	4.7	3.18
Dichlorobenzene, o,m&p	50	3.38
1,1 Dichloroethane	5	6.3
1,2 Dichloroethane	5	0.57
1,1 Dichloroethene	0.07	0.19
cis-1,2 Dichloroethene	5	29.49
trans-1,2 Dichloroethene	5	0.01
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.1
Methylene Chloride	5	0.81
Tetrachloroethene	0.7	122.94
Toluene	5	0.09
1,1,1 Trichloroethane	5	2.47
Trichloroethylene	5	11.61
Vinyl Chloride	1	0.77
Xylene, o	5	1.68
Xylene, m&p	5	0.09
Xylene, o,m&p	50	1.77
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/92 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Jul 2, 1988 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	2.77
Benzene (ND)	0	0
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.04
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.14
Dichlorobenzene, o&p	4.7	0.27
Dichlorobenzene, o,m&p	50	0.9
1,1 Dichloroethane	5	0.11
1,2 Dichloroethane	5	0.16
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.73
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.14
Tetrachloroethene	0.7	0.94
Toluene	5	0.02
1,1,1 Trichloroethane	5	0.04
Trichloroethylene	5	0.1
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.08
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/87 letter to the Town.

** Compounds exceeding allowable GDFL/MTT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 5, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	233.76
Benzene (ND)	0	0.25
Bromodichloromethane	50***	2.71
Bromoform	50***	1.65
Carbon Tetrachloride	5	0.84
Chlorobenzene	5	1.8
Chlorodibromomethane	50***	0
Chloroethane	5	0.18
Chloroform	100***	2.32
Dichlorobenzene, o&p	4.7	5.33
Dichlorobenzene, o,m&p	50	6.76
1,1 Dichloroethane	5	8.36
1,2 Dichloroethane	5	1.78
1,1 Dichloroethene	0.07	0.15
cis-1,2 Dichloroethene	5	34.93
trans-1,2 Dichloroethene	5	1.6
1,2 Dichloropropane	5	3.97
Ethylbenzene	5	2.28
Methylene Chloride	5	4.38
Tetrachloroethene	0.7	139.97
Toluene	5	1.38
1,1,1 Trichloroethane	5	2.78
Trichloroethylene	5	14.9
Vinyl Chloride	1	0.1
Xylene, o	5	0.03
Xylene, m&p	5	0.64
Xylene, o,m&p	50	0.67
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/90 letter to the Town.

** Compounds exceeding standards (1-1-1-1) concentrations are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

Department of Public Works
 Groundwater Treatment Facility
 ORGANIC ANALYSIS REPORT



Jul 5, 1988 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.67
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.05
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.09
Dichlorobenzene, o,m&p	50	0.11
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.04
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.1
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.23
Toluene	5	0.01
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* The following allowed discharge standards are specified in the Consent Decree and modified by (1) (1988) laws of the Town.

** Compound exceeding allowed (MCL) concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 7, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	273.53
Benzene (ND)	0	0.37
Bromodichloromethane	50***	4.36
Bromoform	50***	2.57
Carbon Tetrachloride	5	1.41
Chlorobenzene	5	2.56
Chlorodibromomethane	50***	0
Chloroethane	5	0.36
Chloroform	100***	6.36
Dichlorobenzene, o&p	4.7	7.44
Dichlorobenzene, o,m&p	50	9.48
1,1 Dichloroethane	5	9.23
1,2 Dichloroethane	5	2.62
1,1 Dichloroethene	0.07	0.18
cis-1,2 Dichloroethene	5	42.74
trans-1,2 Dichloroethene	5	1.29
1,2 Dichloropropane	5	4.97
Ethylbenzene	5	2.77
Methylene Chloride	5	3.62
Tetrachloroethene	0.7	153.86
Toluene	5	2
1,1,1 Trichloroethane	5	4.03
Trichloroethylene	5	16.51
Vinyl Chloride	1	2.39
Xylene, o	5	0.04
Xylene, m&p	5	0.92
Xylene, o,m&p	50	0.96
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards are specified in the Current Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowable MTHMNT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



1653-10-11-11-11-11

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT

Jul 7, 1998 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.82
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.01
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.15
Dichlorobenzene, o,m&p	50	0.16
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.04
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.18
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.03
Tetrachloroethane	0.7	0.31
Toluene	5	0.03
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.08
four Trihalomethanes (***)	100	0

* The maximum contaminant level (MCL) for each chemical constituent is shown in the table above.
 ** The measured concentration of each chemical constituent is shown in the table above.
 *** The maximum contaminant level (MCL) for each chemical constituent is shown in the table above.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 9, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	186.72
Benzene (ND)	0	2.7
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.52
Chlorodibromomethane	50***	0
Chloroethane	5	0.15
Chloroform	100***	1.19
Dichlorobenzene, o&p	4.7	2.22
Dichlorobenzene, o,m&p	50	2.31
1,1 Dichloroethane	5	1.81
1,2 Dichloroethane	5	0.2
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	8.64
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	3.49
Tetrachloroethene	0.7	148.0
Toluene	5	0
1,1,1 Trichloroethane	5	1.5
Trichloroethylene	5	12.18
Vinyl Chloride	1	1.32
Xylene, o	5	0.78
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.81
four Trihalomethanes (***)	100	0

* Regulatory surface discharge standards as specified in the Current Orders and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Jul 9, 1998 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.7
Benzene (ND)	0	0.01
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.07
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.13
Dichlorobenzene, o,m&p	50	0.15
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.02
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.07
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.21
Toluene	5	0.05
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.04
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.04
fourTrihalomethanes (***)	100	0

Regulatory compliance with the New York State Environmental Conservation Law and Regulations is indicated by (ND) for non-detectable.

Compliance with the New York State Environmental Conservation Law and Regulations is highlighted.

For more information, please contact the Environmental Health Department at 100-1000.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 12, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	206.83
Benzene (ND)	0	2.69
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.47
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.93
Dichlorobenzene, o&p	4.7	1.99
Dichlorobenzene, o,m&p	50	2.61
1,1 Dichloroethane	5	1.5
1,2 Dichloroethane	5	0.28
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	10.77
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	5.02
Tetrachloroethene	0.7	163.33
Toluene	5	0.06
1,1,1 Trichloroethane	5	1.8
Trichloroethylene	6	14.23
Vinyl Chloride	1	1.1
Xylene, o	5	0.99
Xylene, m&p	6	0.06
Xylene, o,m&p	50	1.04
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

FRANKLIN COUNTY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 12, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.68
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	0.05
Dichlorobenzene, o,m&p	50	0.06
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.01
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.03
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.33
Toluene	5	0.03
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.01
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.02
four Trihaloethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Current Orders and modified by 11/10/91 laws in the Town.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of these four trihaloethanes shall not exceed 100 ug/l.

Organics Analysis Report



Jul 14, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	147.99
Benzene (ND)	0	4.39
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.08
Chlorodibromomethane	50***	0
Chloroethane	5	1.6
Chloroform	100***	2.95
Dichlorobenzene, o,p	4.7	8.84
Dichlorobenzene, o,m&p	50	3.5
1,1 Dichloroethane	5	8.47
1,2 Dichloroethane	5	0.95
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	38.69
trans-1,2 Dichloroethene	5	0.11
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	5.15
Tetrachloroethane	0.7	66.12
Toluene	5	0.1
1,1,1 Trichloroethane	5	1.91
Trichloroethylene	5	4.84
Vinyl Chloride	1	7.57
Xylene, o	5	1.69
Xylene, m&p	5	0.05
Xylene, o,m&p	50	1.68
four Trihaloethanes (***)	100	0

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 14, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.45
Benzene (ND)	0	0.01
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.04
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.07
Dichlorobenzene, o&p	4.7	0.24
Dichlorobenzene, o,m&p	50	0.27
1,1 Dichloroethane	5	0.05
1,2 Dichloroethane	5	0.05
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.44
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0.01
Ethylbenzene	5	0.02
Methylene Chloride	5	0.07
Tetrachloroethene	0.7	0.21
Toluene	5	0.03
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.05
Vinyl Chloride	1	0.06
Xylene, o	5	0.04
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.06
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 14/10/93 letter to the Town.

** Compounds exceeding allowable MCL/MLL/MTL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
 65 SANDY CREEK ROAD

Jul 16, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	218.83
Benzene (ND)	0	3.41
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.8
Chlorodibromomethane	50***	0
Chloroethane	5	0.26
Chloroform	100***	1.54
Dichlorobenzene, o&p	4.7	3.59
Dichlorobenzene, o,m&p	50	3.72
1,1 Dichloroethane	5	1.82
1,2 Dichloroethane	5	0.34
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	11.19
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	1.68
Tetrachloroethene	0.7	175.74
Toluene	5	0
1,1,1 Trichloroethane	5	2.16
Trichloroethylene	5	14.94
Vinyl Chloride	1	0.52
Xylene, o	5	0.9
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.88
four Trihalomethanes (***)	100	0

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 16, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.44
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.05
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.09
Dichlorobenzene, o,m&p	50	0.11
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.01
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.03
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.02
Tetrachloroethene	0.7	0.12
Toluene	5	0.02
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.01
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.02
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Current Decree and modified by 11/10/92 laws to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Jul 19, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	225.89
Benzene (ND)	0	4.23
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.61
Chlorodibromomethane	50***	0
Chloroethane	5	1.21
Chloroform	100***	3.33
Dichlorobenzene, o&p	4.7	8
Dichlorobenzene, o,m&p	50	3.19
1,1 Dichloroethane	5	5.1
1,2 Dichloroethane	5	0.31
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	36.7
trans-1,2 Dichloroethene	5	0.6
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	5.13
Tetrachloroethene	0.7	142.61
Toluene	5	0.05
1,1,1 Trichloroethane	5	2.98
Trichloroethylene	5	13.7
Vinyl Chloride	1	5.19
Xylene, o	5	1.87
Xylene, m&p	5	0.03
Xylene, o,m&p	50	1.9
four Trihalomethanes (***)	100	0

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT

Jul 19, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.81
Benzene (ND)	0	0.01
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.05
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.03
Dichlorobenzene, o&p	4.7	0.13
Dichlorobenzene, o,m&p	50	0.15
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.03
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.2
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	0.03
Tetrachloroethene	0.7	0.22
Toluene	5	0.01
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.04
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 1/10/90 laws to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



TOWN OF OYSTER BAY

Department of Health, Work & Environmental Services
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Jul 21, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	317.16
Benzene (ND)	0	6.3
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.83
Chlorodibromomethane	50***	0
Chloroethane	5	2.95
Chloroform	100***	3.51
Dichlorobenzene, o&p	4.7	2.24
Dichlorobenzene, o,m&p	50	2.31
1,1 Dichloroethane	5	7.03
1,2 Dichloroethane	5	0.3
1,1 Dichloroethene	0.07	0.62
cis-1,2 Dichloroethene	5	44.22
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	4.75
Tetrachloroethene	0.7	209.87
Toluene	5	0.06
1,1,1 Trichloroethane	5	2.93
Trichloroethylene	5	19.59
Vinyl Chloride	1	9.34
Xylene, o	5	2.5
Xylene, m&p	5	0.05
Xylene, o,m&p	50	2.55
fourTrihalomethanes (***)	100	0

For more information on this report, please contact the Environmental Health Department at (516) 461-2000.

Organics Analysis Report

TOWN OF WESTBURY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 21, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.77
Benzene (ND)	0	0.03
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.05
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.1
Dichlorobenzene, o,m&p	50	0.12
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.03
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.22
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	0.04
Tetrachloroethene	0.7	0.18
Toluene	5	0.01
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.03
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the General Powers and modified by 11/10/88 laws to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
 Wastewater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 23, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	294.4
Benzene (ND)	0	5.64
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.95
Chlorodibromomethane	50***	0
Chloroethane	5	0.38
Chloroform	100***	4.49
Dichlorobenzene, o&p	4.7	1.65
Dichlorobenzene, o,m&p	50	1.75
1,1 Dichloroethane	5	7.46
1,2 Dichloroethane	5	0.43
1,1 Dichloroethane	0.07	0.43
cis-1,2 Dichloroethane	5	45.3
trans-1,2 Dichloroethane	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	6.87
Tetrachloroethene	0.7	191.29
Toluene	5	0.08
1,1,1 Trichloroethane	5	2.55
Trichloroethylene	5	17.36
Vinyl Chloride	1	6.74
Xylene, o	5	2.52
Xylene, m&p	5	0.06
Xylene, o,m&p	50	2.68
four Trihalomethanes (***)	100	0

* Regulatory maximum allowable groundwater concentration as set forth in the Ground Water Protection Ordinance of the Town of Oyster Bay, New York.

** Compounds exceeding allowable EPA/USEPA concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Environmental Treatment Facility
 ORGANICS ANALYSIS REPORT

Jul 23, 1983 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	2.03
Benzene (ND)	0	0.07
Bromodichloromethane	50***	0.01
Bromoform	50***	0
Carbon Tetrachloride	5	0.04
Chlorobenzene	5	0.06
Chlorodibromomethane	50***	0
Chloroethane	5	0.08
Chloroform	100***	0.05
Dichlorobenzene, o&p	4.7	0.16
Dichlorobenzene, o,m&p	50	0.19
1,1 Dichloroethane	5	0.05
1,2 Dichloroethane	5	0.09
1,1 Dichloroethene	0.07	0.02
cis-1,2 Dichloroethene	5	0.33
trans-1,2 Dichloroethene	5	0.04
1,2 Dichloropropane	5	0.03
Ethylbenzene	5	0.05
Methylene Chloride	5	0.14
Tetrachloroethene	0.7	0.27
Toluene	5	0.05
1,1,1 Trichloroethane	5	0.05
Trichloroethylene	5	0.09
Vinyl Chloride	1	0.23
Xylene, o	5	0.04
Xylene, m&p	5	0.05
Xylene, o,m&p	50	0.09
four Trihalomethanes (***)	100	0

Report prepared by Environmental Sciences, Inc. for the Town of Oyster Bay, New York.

Compounds exceeding allowable TCE limit concentrations are highlighted.

Report prepared by Environmental Sciences, Inc. for the Town of Oyster Bay, New York.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 26, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	283.74
Benzene (ND)	0	5.44
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.92
Chlorodibromomethane	50***	0
Chloroethane	5	2.39
Chloroform	100***	4.81
Dichlorobenzene, o&p	4.7	2.6
Dichlorobenzene, o,m&p	60	2.72
1,1 Dichloroethane	5	7.58
1,2 Dichloroethane	5	0.77
1,1 Dichloroethene	0.07	0.11
cis-1,2 Dichloroethene	5	44.7
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	6.7
Tetrachloroethene	0.7	178.92
Toluene	5	0.07
1,1,1 Trichloroethane	5	2.71
Trichloroethylene	5	15.41
Vinyl Chloride	1	7.82
Xylene, o	5	2.62
Xylene, m&p	5	0.06
Xylene, o,m&p	50	2.67
four Trihalomethanes (***)	100	0

* Regulatory maximum allowable groundwater concentration as specified in the Environmental Conservation Law and Regulations, Sections 27-2.1 and 27-2.2.

** Compounds exceeding allowable groundwater concentrations are highlighted.

*** The concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Jul 26, 1998

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.63
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0.01
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.08
Dichlorobenzene, o,m&p	50	0.1
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.03
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.07
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.1
Toluene	5	0.02
1,1,1 Trichloroethane	5	0.02
Trichloroethylene	5	0.03
Vinyl Chloride	1	0
Xylene, o	5	0.08
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.05
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standards as reported in the Current Status of Groundwater by EPA and DEC in 1995.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT

Jul 28, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	290.72
Benzene (ND)	0	5.8
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.96
Chlorodibromomethane	50***	0
Chloroethane	5	1.79
Chloroform	100***	4.9
Dichlorobenzene, o&p	4.7	1.89
Dichlorobenzene, o,m&p	50	2.02
1,1 Dichloroethane	5	7.54
1,2 Dichloroethane	5	0.98
1,1 Dichloroethene	0.07	0.78
cis-1,2 Dichloroethene	5	46.75
trans-1,2 Dichloroethene	5	0.01
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	7.09
Tetrachloroethene	0.7	183.77
Toluene	5	0.07
1,1,1 Trichloroethane	5	2.29
Trichloroethylene	5	16.39
Vinyl Chloride	1	7.46
Xylene, o	5	2.69
Xylene, m&p	5	0.05
Xylene, o,m&p	50	2.74
four Trihalomethanes (***)	100	0

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Jul 28, 1993 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.56
Benzene (ND)	0	0.08
Bromodichloromethane	50***	0.02
Bromoform	50***	0
Carbon Tetrachloride	5	0.06
Chlorobenzene	5	0.06
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.07
Dichlorobenzene, o&p	4.7	0.14
Dichlorobenzene, o,m&p	50	0.19
1,1 Dichloroethane	5	0.04
1,2 Dichloroethane	5	0.05
1,1 Dichloroethane	0.07	0.02
cis-1,2 Dichloroethane	5	0.08
trans-1,2 Dichloroethane	5	0.03
1,2 Dichloropropane	5	0.04
Ethylbenzene	5	0.07
Methylene Chloride	5	0.1
Tetrachloroethane	0.7	0.15
Toluene	5	0.11
1,1,1 Trichloroethane	5	0.06
Trichloroethylene	5	0.07
Vinyl Chloride	1	0.11
Xylene, o	5	0.07
Xylene, m&p	5	0.08
Xylene, o,m&p	50	0.15
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Current State and Federal Groundwater Protection Act.

** Compounds exceeding allowable (MCL/MCLL) concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 30, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	185.16
Benzene (ND)	0	4.67
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.29
Chlorodibromomethane	50***	0
Chloroethane	5	2.11
Chloroform	100***	3.81
Dichlorobenzene, o&p	4.7	3.57
Dichlorobenzene, o,m&p	50	3.7
1,1 Dichloroethane	5	10.38
1,2 Dichloroethane	5	0.31
1,1 Dichloroethene	0.07	0.81
cis-1,2 Dichloroethene	5	45.93
trans-1,2 Dichloroethene	5	0.04
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.09
Methylene Chloride	5	5.65
Tetrachloroethene	0.7	87.4
Toluene	5	0.12
1,1,1 Trichloroethane	5	1.98
Trichloroethylene	5	5.67
Vinyl Chloride	1	8.08
Xylene, o	5	2.09
Xylene, m&p	5	0.06
Xylene, o,m&p	50	2.14
four Trihalomethanes (***)	100	0

* Regulatory allowed maximum concentrations as specified in the Current Chapter and modified by 11/1989 letter to the Town.

** Compounds including allowable PCE/CHL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

BOARD OF SUPERVISORS

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 30, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.66
Benzene (ND)	0	0.03
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.01
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	0.07
Dichlorobenzene, o,m&p	50	0.03
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.03
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.31
Toluene	5	0.08
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.09
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.06
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Control Order and modified by 1910(a) limits in the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Aug 2, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	175.67
Benzene (ND)	0	3.75
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.3
Chlorodibromomethane	50***	0
Chloroethane	5	3.08
Chloroform	100***	4.61
Dichlorobenzene, o&p	4.7	3.73
Dichlorobenzene, o,m&p	50	3.76
1,1 Dichloroethane	5	0.95
1,2 Dichloroethane	5	0.36
1,1 Dichloroethene	0.07	0.21
cis-1,2 Dichloroethene	5	43
trans-1,2 Dichloroethene	5	0.06
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.08
Methylene Chloride	5	6.47
Tetrachloroethene	0.7	81.09
Toluene	5	0.09
1,1,1 Trichloroethane	5	1.49
Trichloroethylene	5	5.13
Vinyl Chloride	1	2.14
Xylene, o	5	2.06
Xylene, m&p	5	0.04
Xylene, o,m&p	50	2.1
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Current Ordinance and modified by 11/10/88 letter to the Town.

** Compounds exceeding ALLOWED TO EXCEED concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 2, 1993 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.4
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.07
Dichlorobenzene, o,m&p	50	0.09
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.01
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.06
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.03
Toluene	5	0.03
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.07
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.04
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 14(1)(b) here to the Town.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 4, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	250.75
Benzene (ND)	0	4.6
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.06
Chlorodibromomethane	50***	0
Chloroethane	5	1.28
Chloroform	100***	4.14
Dichlorobenzene, o&p	4.7	4.26
Dichlorobenzene, o,m&p	50	4.29
1,1 Dichloroethane	5	6.89
1,2 Dichloroethane	5	0.46
1,1 Dichloroethene	0.07	0.79
cis-1,2 Dichloroethene	5	34.98
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	7.46
Tetrachloroethene	0.7	158.73
Toluene	5	0.09
1,1,1 Trichloroethane	5	2.58
Trichloroethylene	5	15.05
Vinyl Chloride	1	5.58
Xylene, o	5	2.15
Xylene, m&p	5	0.06
Xylene, o,m&p	50	2.2
four Trihalomethanes (***)	100	0

* Regulatory values established by the state are specified in the Chemical Database and modified by the 1990 New York State Law.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 4, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.07
Benzene (ND)	0	0.06
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.08
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.04
Dichlorobenzene, o&p	4.7	0.18
Dichlorobenzene, o,m&p	50	0.21
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.04
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.15
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.06
Tetrachloroethene	0.7	0.13
Toluene	5	0.11
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.03
Vinyl Chloride	1	0.05
Xylene, o	5	0.04
Xylene, m&p	5	0.04
Xylene, o,m&p	50	0.08
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by E/10/93 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 6, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	210.77
Benzene (ND)	0	4.13
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.76
Chlorodibromomethane	50***	0
Chloroethane	5	0.47
Chloroform	100***	3.97
Dichlorobenzene, o&p	4.7	2.87
Dichlorobenzene, o,m&p	50	2.52
1,1 Dichloroethane	5	5.06
1,2 Dichloroethane	5	0.89
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	30.05
trans-1,2 Dichloroethene	5	0.34
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	5.23
Tetrachloroethene	0.7	137.66
Toluene	5	0
1,1,1 Trichloroethane	5	2.39
Trichloroethylene	5	12.17
Vinyl Chloride	1	3.84
Xylene, o	5	1.72
Xylene, m&p	5	0.03
Xylene, o,m&p	50	1.75
four Trihalomethanes (***)	100	0

This report was prepared by the Town of Oyster Bay, New York, Department of Public Works, Groundwater Treatment Facility, and is not to be used for any other purpose without the written consent of the Town of Oyster Bay.

The concentration of the above listed chemicals shall not exceed the values shown in this report.

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Aug 6, 1993 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.96
Benzene (ND)	0	0.06
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.07
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.14
Dichlorobenzene, o,m&p	50	0.18
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.01
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.18
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.19
Toluene	5	0.05
1,1,1 Trichloroethane	5	0.03
Trichloroethylene	5	0.03
Vinyl Chloride	1	0.07
Xylene, o	5	0.03
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.05
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the General Decree approved by the State of New York.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

10/10/11 10:11 AM

Department of Public Works
 Groundwater Treatment Facility
 100 West 10th Street, New York, NY 10011



Aug 9, 1998

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	188.08
Benzene (ND)	0	3.61
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.69
Chlorodibromomethane	50***	0
Chloroethane	5	0.18
Chloroform	100***	3.68
Dichlorobenzene, o&p	4.7	2.16
Dichlorobenzene, o,m&p	50	2.29
1,1 Dichloroethane	5	4.63
1,2 Dichloroethane	5	0
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethane	5	25.23
trans-1,2 Dichloroethane	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	4.03
Tetrachloroethane	0.7	126.87
Toluene	5	0
1,1,1 Trichloroethane	5	2.06
Trichloroethylene	5	11.2
Vinyl Chloride	1	2.02
Xylene, o	5	1.52
Xylene, m&p	5	0.06
Xylene, o,m&p	50	1.55
fourTribalomethanes (***)	100	0

Organics Analysis Report

[REDACTED]

Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 9, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.94
Benzene (ND)	0	0.06
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0.01
Chlorobenzene	5	0.06
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.09
Dichlorobenzene, o,m&p	50	0.13
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.02
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.07
trans-1,2 Dichloroethene	5	0.02
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.05
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.27
Toluene	5	0.09
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.04
Vinyl Chloride	1	0
Xylene, o	5	0.04
Xylene, m&p	5	0.06
Xylene, o,m&p	50	0.1
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by USEPA Consent Decree.

** Compound exceeding allowable TCE/THM concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 11, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	256.33
Benzene (ND)	0	4.29
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.99
Chlorodibromomethane	50***	0
Chloroethane	5	0.51
Chloroform	100***	4.12
Dichlorobenzene, o&p	4.7	0.69
Dichlorobenzene, o,m&p	50	0.78
1,1 Dichloroethane	5	5.98
1,2 Dichloroethane	5	0.14
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	37.32
trans-1,2 Dichloroethene	5	0.09
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	3.98
Tetrachloroethene	0.7	176.31
Toluene	5	0.05
1,1,1 Trichloroethane	5	2.24
Trichloroethylene	5	15.09
Vinyl Chloride	1	2.4
Xylene, o	5	1.99
Xylene, m&p	5	0.03
Xylene, o,m&p	50	2.02
four Trihalomethanes (***)	100	0

Organics Analysis Report

1653

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 11, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.48
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.01
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	0.03
Dichlorobenzene, o,m&p	50	0.04
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethane	5	0.06
trans-1,2 Dichloroethane	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.23
Toluene	5	0.06
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.05
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the General Orders and modified by 1/10/88 laws in the Town.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT

Aug 13, 1998

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	248.63
Benzene (ND)	0	4.23
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.73
Chlorodibromomethane	50***	0
Chloroethane	5	0.94
Chloroform	100***	3.5
Dichlorobenzene, o&p	4.7	2.25
Dichlorobenzene, o,m&u	50	2.37
1,1 Dichloroethane	5	5.63
1,2 Dichloroethane	5	0.29
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	35.51
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	4.31
Tetrachloroethene	0.7	168.54
Toluene	5	0.05
1,1,1 Trichloroethane	5	2.96
Trichloroethylene	5	13.43
Vinyl Chloride	1	4.11
Xylene, o	5	1.86
Xylene, m&p	5	0.03
Xylene, o,m&p	50	1.89
four Trihalomethanes (***)	100	0

Organics Analysis Report

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Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 13, 1998

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.78
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.04
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.09
Dichlorobenzene, o,m&p	50	0.12
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.02
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.27
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.2
Toluene	5	0.01
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Control Order and modified by 1/10/98 letter to the Town.

** Compounds exceeding allowable EPA/USEPA concentrations are highlighted.

*** Total concentration of these four chloromethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Aug 16, 1993 AM Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	243.25
Benzene (ND)	0	3.99
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.65
Chlorodibromomethane	50***	0
Chloroethane	5	1.57
Chloroform	100***	3.96
Dichlorobenzene, o&p	4.7	2.1
Dichlorobenzene, o,m&p	50	2.22
1,1 Dichloroethane	5	5.65
1,2 Dichloroethane	5	0.33
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	34.22
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	4.47
Tetrachloroethene	0.7	163.63
Toluene	5	0
1,1,1 Trichloroethane	5	2.7
Trichloroethylene	5	12.86
Vinyl Chloride	1	5.08
Xylene, o	5	1.84
Xylene, m&p	5	0.03
Xylene, o,m&p	50	1.87
four Trihalomethanes (***)	100	0

Discharge of any chemical discharge standards as specified in the Consent Decree shall be controlled by the following:

1. The concentration of any chemical discharge shall not exceed the following:

2. The concentration of any chemical discharge shall not exceed 100 ug/l.

Organics Analysis Report

1653

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 16, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.74
Benzene (ND)	0	0.09
Bromodichloromethane	50***	0.03
Bromoform	50***	0
Carbon Tetrachloride	5	0.08
Chlorobenzene	5	0.08
Chlorodibromomethane	50***	0
Chloroethane	5	0.02
Chloroform	100***	0.05
Dichlorobenzene, o&p	4.7	0.11
Dichlorobenzene, o,m&p	50	0.19
1,1 Dichloroethane	5	0.05
1,2 Dichloroethane	5	0.07
1,1 Dichloroethene	0.07	0.03
cis-1,2 Dichloroethene	5	0.15
trans-1,2 Dichloroethene	5	0.02
1,2 Dichloropropane	5	0.06
Ethylbenzene	5	0.08
Methylene Chloride	5	0.04
Tetrachloroethene	0.7	0.19
Toluene	5	0.08
1,1,1 Trichloroethane	5	0.09
Trichloroethylene	5	0.1
Vinyl Chloride	1	0.08
Xylene, o	5	0.07
Xylene, m&p	5	0.09
Xylene, o,m&p	50	0.16
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the General Orders and modified by 17/19/92 laws of the Town.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 18, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	264.53
Benzene (ND)	0	4.35
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.78
Chlorodibromomethane	50***	0
Chloroethane	5	0.95
Chloroform	100***	4.15
Dichlorobenzene, o&p	4.7	2.48
Dichlorobenzene, o,m&p	50	2.57
1,1 Dichloroethane	5	5.87
1,2 Dichloroethane	5	0.29
1,1 Dichloroethene	0.07	0.07
cis-1,2 Dichloroethene	5	36.49
trans-1,2 Dichloroethene	5	0.03
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	4.78
Tetrachloroethene	0.7	180.83
Toluene	5	0.05
1,1,1 Trichloroethane	5	2.8
Trichloroethylene	5	14.33
Vinyl Chloride	1	4.31
Xylene, o	5	1.93
Xylene, m&p	5	0.03
Xylene, o,m&p	50	1.96
four Trihalomethanes (***)	100	0

* Regulatory and health risk standards as specified in the Environmental Quality and Health Act, and modified by Article 13 of the State Constitution.

** Concentration exceeding allowable EPA USEPA concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 18, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.93
Benzene (ND)	0	0.04
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.05
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.03
Dichlorobenzene, o&p	4.7	0.12
Dichlorobenzene, o,m&p	50	0.16
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.03
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.29
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.21
Toluene	5	0.01
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.04
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by 1991/92 laws of the Town.

** Compounds exceeding allowable TCE/EDC/THM concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Aug 20, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	288.99
Benzene (ND)	0	4.92
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.81
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	5.91
Dichlorobenzene, o&p	4.7	2.95
Dichlorobenzene, o,m&p	50	3.07
1,1 Dichloroethane	5	6.64
1,2 Dichloroethane	5	0.49
1,1 Dichloroethene	0.07	0.14
cis-1,2 Dichloroethene	5	43.51
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.05
Methylene Chloride	5	5.01
Tetrachloroethene	0.7	183.78
Toluene	5	0.07
1,1,1 Trichloroethane	5	3.13
Trichloroethylene	5	15.44
Vinyl Chloride	1	3.71
Xylene, o	5	2.27
Xylene, m&p	5	0.04
Xylene, o,m&p	50	2.31
four Trihalomethanes (***)	100	0

* This report is based on the data analysis as reported in the Chemical Analysis and modified by 1/10/00 value to the Town.

** This report is based on the data analysis as reported in the Chemical Analysis and modified by 1/10/00 value to the Town.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

1653

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 20, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.62
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.04
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.09
Dichlorobenzene, o,m&p	50	0.12
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.02
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.18
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.12
Toluene	5	0.03
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the General Orders and modified by 13/10/92 laws in the town.

** Compounds exceeding allowable (MCL/MCLL) concentrations are highlighted.

** Total concentration of these four trihalomethanes shall not exceed 100ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Aug 23, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	274.15
Benzene (ND)	0	4.54
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.76
Chlorodibromomethane	50***	0
Chloroethane	5	0.81
Chloroform	100***	5.56
Dichlorobenzene, o&p	4.7	1.07
Dichlorobenzene, o,m&p	50	1.17
1,1 Dichloroethane	5	6.18
1,2 Dichloroethane	5	0.37
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	40.41
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	5.96
Tetrachloroethene	0.7	185.29
Toluene	5	0.06
1,1,1 Trichloroethane	5	2.68
Trichloroethylene	5	14.71
Vinyl Chloride	1	3.44
Xylene, o	5	2.14
Xylene, m&p	5	0.03
Xylene, o,m&p	50	2.17
four Trihalomethanes (***)	100	0

* The safety-related discharge standards as specified in the General Orders and modified by 1/2/02 letter to the Town.

** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

BOARD OF SUPERVISORS
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 23, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.6
Benzene (ND)	0	0.06
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.05
Chlorodibromomethane	50***	0
Chloroethane	5	0.17
Chloroform	100***	0.04
Dichlorobenzene, o&p	4.7	0.14
Dichlorobenzene, o,m&p	50	0.17
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.04
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.36
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.02
Tetrachloroethane	0.7	0.4
Toluene	5	0.06
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.16
Vinyl Chloride	1	0
Xylene, o	5	0.04
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.06
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the General Orders and modified by 11/10/92 laws of the Town.

** Compounds exceeding allowable effluent concentrations are highlighted.

*** Total concentration of four trihalomethanes did not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 27, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	263.11
Benzene (ND)	0	5.27
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.04
Chlorodibromomethane	50***	0
Chloroethane	5	0.24
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	2.17
Dichlorobenzene, o,m&p	50	2.33
1,1 Dichloroethane	5	7.58
1,2 Dichloroethane	5	0.21
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	48.85
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.05
Methylene Chloride	5	7.22
Tetrachloroethene	0.7	164.29
Toluene	5	0.07
1,1,1 Trichloroethane	5	2.44
Trichloroethylene	5	15.52
Vinyl Chloride	1	5.36
Xylene, o	5	2.6
Xylene, m&p	5	0.04
Xylene, o,m&p	50	2.64
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by E-1000 letter to the Town.

** Compounds exceeding allowable E-1-E2-E3 concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Aug 27, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.61
Benzene (ND)	0	0.07
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.07
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.07
Dichlorobenzene, o&p	4.7	0.23
Dichlorobenzene, o,m&p	50	0.28
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0.04
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethane	5	0.47
trans-1,2 Dichloroethane	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.03
Methylene Chloride	5	0.02
Tetrachloroethane	0.7	0.31
Toluene	5	0.09
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.05
Vinyl Chloride	1	0
Xylene, o	5	0.08
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.09
four Trihalomethanes (***)	100	0

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Aug 31, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	262.25
Benzene (ND)	0	6.35
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.2
Chlorodibromomethane	50***	0
Chloroethane	5	1.22
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	2.63
Dichlorobenzene, o,m&p	50	2.88
1,1 Dichloroethane	5	7.65
1,2 Dichloroethane	5	0.44
1,1 Dichloroethene	0.07	0.45
cis-1,2 Dichloroethene	5	53.44
trans-1,2 Dichloroethene	5	0.34
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.97
Methylene Chloride	5	6.71
Tetrachloroethene	0.7	145.5
Toluene	5	0.21
1,1,1 Trichloroethane	5	3.01
Trichloroethylene	5	16.27
Vinyl Chloride	1	5.47
Xylene, o	5	10
Xylene, m&p	5	0.14
Xylene, o,m&p	50	10.14
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consents Decree and modified by 11/18/93 letter to the Town.

** Compounds exceeding allowable USEPA MCL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Environmental Treatment Facility
 ORGANIC ANALYSIS REPORT

Aug 31, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.09
Benzene (ND)	0	0.04
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.06
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.04
Dichlorobenzene, o&p	4.7	0.18
Dichlorobenzene, o,m&p	50	0.22
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0.02
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethane	5	0.34
trans-1,2 Dichloroethane	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethane	0.7	0.18
Toluene	5	0.06
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.03
Vinyl Chloride	1	0
Xylene, o	5	0.05
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.07
four Trihalomethanes (****)	100	0

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 3, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	247.45
Benzene (ND)	0	5.46
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.27
Chlorodibromomethane	50***	0
Chloroethane	5	0.86
Chloroform	100***	6.57
Dichlorobenzene, o&p	4.7	4.1
Dichlorobenzene, o,m&p	50	4.27
1,1 Dichloroethane	5	8.85
1,2 Dichloroethane	5	0.41
1,1 Dichloroethene	0.07	0.42
cis-1,2 Dichloroethene	5	46.51
trans-1,2 Dichloroethene	5	0.11
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.06
Methylene Chloride	5	5.25
Tetrachloroethene	0.7	138.14
Toluene	5	0.13
1,1,1 Trichloroethane	5	3.64
Trichloroethylene	5	18.54
Vinyl Chloride	1	4.33
Xylene, o	5	2.58
Xylene, m&p	5	0.06
Xylene, o,m&p	50	2.63
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as reported in the Chemical Database and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable MCL/MCLL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Sep 3, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.87
Benzene (ND)	0	0.06
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.08
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.05
Dichlorobenzene, o&p	4.7	0.26
Dichlorobenzene, o,m&p	50	0.31
1,1 Dichloroethane	5	0.03
1,2 Dichloroethane	5	0.04
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.58
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.09
Methylene Chloride	5	0.03
Tetrachloroethene	0.7	0.29
Toluene	5	0.03
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.06
Vinyl Chloride	1	0
Xylene, o	5	0.19
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.21
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards are specified in the Connecticut General Statutes, Chapter 222, Section 22-210a.

** Compounds exceeding allowed PCE and TCE concentrations are highlighted.

*** Regulatory discharge standards for THMs are not specified in the Connecticut General Statutes.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Sep 8, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	252.29
Benzene (ND)	0	4.51
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.99
Chlorodibromomethane	50***	0
Chloroethane	5	0.09
Chloroform	100***	5.13
Dichlorobenzene, o&p	4.7	3.5
Dichlorobenzene, o,m&p	50	3.69
1,1 Dichloroethane	5	7.26
1,2 Dichloroethane	5	0.32
1,1 Dichloroethene	0.07	0.54
cis-1,2 Dichloroethene	5	41.21
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	6.73
Tetrachloroethene	0.7	160.59
Toluene	5	0.09
1,1,1 Trichloroethane	5	2.14
Trichloroethylene	5	15.84
Vinyl Chloride	1	0.72
Xylene, o	5	2.32
Xylene, m&p	5	0.05
Xylene, o,m&p	50	2.37
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the General Order and modified by 11/10/90 letter to the Town.

** Compounds exceeding allowable 1-1-1-1-1-1 measurements are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Sep 8, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.45
Benzene (ND)	0	0.01
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.03
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.06
Dichlorobenzene, o,m&p	50	0.08
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethane	5	0.09
trans-1,2 Dichloroethane	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0
Tetrachloroethane	0.7	0.08
Toluene	5	0.05
1,1,1 Trichloroethane	5	0.02
Trichloroethylene	5	0.04
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and approved by the State Department of Environmental Conservation.

** Compounds exceeding allowed PCCB/CB concentrations are highlighted.

*** Total Trihalomethanes (TTHM) concentration is 0.00 ug/l.

Organics Analysis Report



Sep 10, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	251.22
Benzene (ND)	0	3.38
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.78
Chlorodibromomethane	50***	0
Chloroethane	5	0.68
Chloroform	100***	8.01
Dichlorobenzene, o&p	4.7	1.48
Dichlorobenzene, o,m&p	50	1.59
1,1 Dichloroethane	5	8.48
1,2 Dichloroethane	5	0.69
1,1 Dichloroethene	0.07	0.81
cis-1,2 Dichloroethene	5	35.44
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.05
Methylene Chloride	5	8.11
Tetrachloroethene	0.7	162.11
Toluene	5	0
1,1,1 Trichloroethane	5	3.58
Trichloroethylene	5	14.2
Vinyl Chloride	1	0.87
Xylene, o	5	1.88
Xylene, m&p	5	0.04
Xylene, o,m&p	50	1.9
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the General Orders and modified by 1/10/88 letter to the Town.

** Compounds exceeding allowable 1-1-1988-89 concentrations are highlighted.

*** Total concentration of four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 10, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	60.19
Benzene (ND)	0	0.98
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.24
Chlorodibromomethane	50***	0
Chloroethane	5	0.05
Chloroform	100***	2.04
Dichlorobenzene, o&p	4.7	0.42
Dichlorobenzene, o,m&p	50	0.45
1,1 Dichloroethane	5	2.58
1,2 Dichloroethane	5	0.33
1,1 Dichloroethene	0.07	0.08
cis-1,2 Dichloroethene	5	11.01
trans-1,2 Dichloroethene	5	0.09
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.48
Tetrachloroethene	0.7	35.54
Toluene	5	0.03
1,1,1 Trichloroethane	5	0.84
Trichloroethylene	5	4.12
Vinyl Chloride	1	0.73
Xylene, o	5	0.67
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.58
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 1/1/1993 letter to the Town

** Compounds exceeding allowable 1-1-1 MCHL concentrations are highlighted

*** Total concentrations of these four trihalomethanes are not reported in this report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 15, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	263.27
Benzene (ND)	0	3.41
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.58
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	7.2
Dichlorobenzene, o&p	4.7	0.9
Dichlorobenzene, o,m&p	50	1.04
1,1 Dichloroethane	5	7.27
1,2 Dichloroethane	5	0.75
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	34.84
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	6.81
Tetrachloroethene	0.7	180.44
Toluene	5	0
1,1,1 Trichloroethane	5	3.26
Trichloroethylene	5	15.75
Vinyl Chloride	1	0
Xylene, o	5	1.88
Xylene, m&p	5	0
Xylene, o,m&p	50	1.88
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/93 laws in the Town.

** Compounds exceeding allowable MFL/UBFL concentration are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OSTERBAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 15, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	58.69
Benzene (ND)	0	0.9
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.17
Chlorodibromomethane	50***	0
Chloroethane	5	0.4
Chloroform	100***	1.77
Dichlorobenzene, o&p	4.7	0.35
Dichlorobenzene, o,m&p	50	0.37
1,1 Dichloroethane	5	1.85
1,2 Dichloroethane	5	0.09
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	9.83
trans-1,2 Dichloroethene	5	0.08
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.42
Tetrachloroethene	0.7	36.43
Toluene	5	0.03
1,1,1 Trichloroethane	5	0.55
Trichloroethylene	5	4.3
Vinyl Chloride	1	0.98
Xylene, o	5	0.5
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.51
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consents Decree and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Sep 17, 1983

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	304.82
Benzene (ND)	0	5.35
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1
Chlorodibromomethane	50***	0
Chloroethane	5	2.47
Chloroform	100***	2.3
Dichlorobenzene, o&p	4.7	3.53
Dichlorobenzene, o,m&p	50	3.72
1,1 Dichloroethane	5	8.19
1,2 Dichloroethane	5	0.32
1,1 Dichloroethene	0.07	0.73
cis-1,2 Dichloroethene	5	51.09
trans-1,2 Dichloroethene	5	0.74
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.06
Methylene Chloride	5	7.83
Tetrachloroethene	0.7	198.22
Toluene	5	0.08
1,1,1 Trichloroethane	5	3.3
Trichloroethylene	5	17.06
Vinyl Chloride	1	0
Xylene, o	5	2.33
Xylene, m&p	5	0.04
Xylene, o,m&p	50	2.37
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Control Decree and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable PFC-ELM concentrations are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 17, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)

Total VOCs	100	80.21
Benzene (ND)	0	1.67
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.31
Chlorodibromomethane	50***	0
Chloroethane	5	0.67
Chloroform	100***	0.59
Dichlorobenzene, o&p	4.7	0.91
Dichlorobenzene, o,m&p	50	0.96
1,1 Dichloroethane	5	2.36
1,2 Dichloroethane	5	0.21
1,1 Dichloroethene	0.07	0.14
cis-1,2 Dichloroethene	5	13.8
trans-1,2 Dichloroethene	5	0.07
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.52
Tetrachloroethene	0.7	52.17
Toluene	5	0.03
1,1,1 Trichloroethane	5	1.08
Trichloroethylene	5	6.06
Vinyl Chloride	1	0
Xylene, o	5	0.64
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.66
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by E/10/90 letter to the Town.

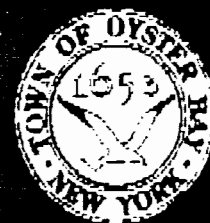
** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 20, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	295.31
Benzene (ND)	0	4.77
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.94
Chlorodibromomethane	50***	0
Chloroethane	5	0.71
Chloroform	100***	4.6
Dichlorobenzene, o&p	4.7	3.11
Dichlorobenzene, o,m&p	50	3.29
1,1 Dichloroethane	5	7.68
1,2 Dichloroethane	5	0.31
1,1 Dichloroethene	0.07	0.11
cis-1,2 Dichloroethene	5	45.2
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.09
Methylene Chloride	5	5.62
Tetrachloroethene	0.7	195.08
Toluene	5	0.1
1,1,1 Trichloroethane	5	3.78
Trichloroethylene	5	15.11
Vinyl Chloride	1	5.61
Xylene, o	5	2.38
Xylene, m&p	5	0.06
Xylene, o,m&p	50	2.43
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Current Decision and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

Department of Public Works
 Groundwater Treatment Facility
 ORGANIC ANALYSIS REPORT



Sep 20, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.09
Benzene (ND)	0	0.03
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.03
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.05
Dichlorobenzene, o,m&p	50	0.16
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.2
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.54
Toluene	5	0.02
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.06
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Groundwater Protection and Monitoring (GWP/M) Ordinance for Town.

** Concentrations exceeding allowable GWP/M concentrations are highlighted.

*** Total Trihalomethanes (TTHM) for this sample was not determined.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Sep 21, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	301.98
Benzene (ND)	0	4.97
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.02
Chlorodibromomethane	50***	0
Chloroethane	5	0.13
Chloroform	100***	5.68
Dichlorobenzene, o&p	4.7	3.55
Dichlorobenzene, o,m&p	50	3.73
1,1 Dichloroethane	5	6.78
1,2 Dichloroethane	5	0.75
1,1 Dichloroethene	0.07	0.28
cis-1,2 Dichloroethene	5	47.58
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	5.72
Tetrachloroethene	0.7	198.44
Toluene	5	0.09
1,1,1 Trichloroethane	5	3.48
Trichloroethylene	5	16.99
Vinyl Chloride	1	3.93
Xylene, o	5	2.29
Xylene, m&p	5	0.05
Xylene, o,m&p	50	2.34
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Current Decree and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

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 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 21, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.3
Benzene (ND)	0	0.03
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.04
Dichlorobenzene, o&p	4.7	0.05
Dichlorobenzene, o,m&p	50	0.07
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.19
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.78
Toluene	5	0.04
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.06
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.04
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards are provided by New York State Department of Environmental Conservation and modified by USEPA rules to the extent shown.

** Compounds exceeding allowed discharge concentrations are highlighted.

*** This constituent is not regulated by the Department of Environmental Conservation.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 22, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	267.97
Benzene (ND)	0	4.4
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.94
Chlorodibromomethane	50***	0
Chloroethane	5	0.24
Chloroform	100***	6.04
Dichlorobenzene, o&p	4.7	3.01
Dichlorobenzene, o,m&p	50	3.17
1,1 Dichloroethane	5	6.9
1,2 Dichloroethane	5	0.19
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	42.67
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.09
Methylene Chloride	5	7.2
Tetrachloroethene	0.7	175.61
Toluene	5	0.09
1,1,1 Trichloroethane	5	2.3
Trichloroethylene	5	15.17
Vinyl Chloride	1	1.79
Xylene, o	5	2.1
Xylene, m&p	5	0.07
Xylene, o,m&p	50	2.17
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/90 letter to the Town.

** Compounds exceeding allowable PCE-MCHL concentrations are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT

Sep 22, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.92
Benzene (ND)	0	0.02
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	0.03
Dichlorobenzene, o,m&p	50	0.05
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.11
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.53
Toluene	5	0.02
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.04
Vinyl Chloride	1	0
Xylene, o	5	0.01
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.02
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Groundwater Quality Act and regulated by 14/10/93 laws in the Town.

** Compliance according to the 14/10/93 concentrations are 100 ug/l.

*** Total Trihalomethanes (TTHM)

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Sep 23, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	307.83
Benzene (ND)	0	5.28
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.01
Chlorodibromomethane	50***	0
Chloroethane	5	0.91
Chloroform	100***	4.41
Dichlorobenzene, o&p	4.7	1.64
Dichlorobenzene, o,m&p	50	1.77
1,1 Dichloroethane	5	8.28
1,2 Dichloroethane	5	0.34
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	48.86
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.06
Methylene Chloride	5	6.24
Tetrachloroethene	0.7	200.91
Toluene	5	0.09
1,1,1 Trichloroethane	5	3.45
Trichloroethylene	5	17.36
Vinyl Chloride	1	5.47
Xylene, o	5	2.37
Xylene, m&p	5	0.04
Xylene, o,m&p	50	2.41
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowable 1-1-1-1-1-1 concentrations are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 23, 1983

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.52
Benzene (ND)	0	0.03
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	0.03
Dichlorobenzene, o,m&p	50	0.05
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.08
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0.01
Tetrachloroethane	0.7	0.19
Toluene	5	0.07
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.02
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.04
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the General Discharge Ordinance and modified by 19/10/82 New York State Laws.

** Compounds exceeding allowable discharge concentrations are highlighted.

*** Total Trihalomethanes (TTHM) concentration is 0.0000 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 24, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	305.12
Benzene (ND)	0	5.01
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.27
Chlorodibromomethane	50***	0
Chloroethane	5	0.17
Chloroform	100***	4.51
Dichlorobenzene, o&p	4.7	3.51
Dichlorobenzene, o,m&p	50	3.65
1,1 Dichloroethane	5	8.03
1,2 Dichloroethane	5	0.54
1,1 Dichloroethene	0.07	0.54
cis-1,2 Dichloroethene	5	47.21
trans-1,2 Dichloroethene	5	0.36
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	6.47
Tetrachloroethene	0.7	198.14
Toluene	5	0.06
1,1,1 Trichloroethane	5	3.79
Trichloroethylene	5	17.78
Vinyl Chloride	1	5.35
Xylene, o	5	2.16
Xylene, m&p	5	0.03
Xylene, o,m&p	50	2.19
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Current Rules and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 24, 1993 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.98
Benzene (ND)	0	0.04
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.05
Dichlorobenzene, o,m&p	50	0.07
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.23
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.85
Toluene	5	0.01
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.08
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.03
four Trihalomethanes (***)	100	0

* Maximum allowable discharge standards as specified in the Chemicals Control Act and adopted by the City of New York.

** Compound exceeding allowable EFFLUENT concentration are highlighted.

*** Total concentration of four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 27, 1988

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	209.1
Benzene (ND)	0	3.38
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.69
Chlorodibromomethane	50***	0
Chloroethane	5	0.21
Chloroform	100***	4.08
Dichlorobenzene, o&p	4.7	2.39
Dichlorobenzene, o,m&p	50	2.66
1,1 Dichloroethane	5	5.6
1,2 Dichloroethane	5	0.33
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	33.24
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	5.9
Tetrachloroethene	0.7	132.3
Toluene	5	0.21
1,1,1 Trichloroethane	5	2.3
Trichloroethylene	5	11.32
Vinyl Chloride	1	5.35
Xylene, o	5	1.67
Xylene, m&p	5	0.03
Xylene, o,m&p	50	1.6
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consolidated Law and modified by 11/10/88 letter to the Town.

** Compliance monitoring allowed by 11/10/88 letter to the Town.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF WESTFIELD
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 27, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	1.43
Benzene (ND)	0	0.05
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.03
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.02
Dichlorobenzene, o&p	4.7	0.08
Dichlorobenzene, o,m&p	50	0.11
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.14
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	0.01
Tetrachloroethene	0.7	0.81
Toluene	5	0.1
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.06
Vinyl Chloride	1	0
Xylene, o	5	0.03
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.06
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standards are specified in the Current Chapter and modified by V/1000 later in the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** The concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 28, 1998

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	208.22
Benzene (ND)	0	3.48
Bromodichloromethane	50***	0
Bromotorm	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.68
Chlorodibromomethane	50***	0
Chloroethane	5	0.32
Chloroform	100***	4.21
Dichlorobenzene, o&p	4.7	2.43
Dichlorobenzene, o,m&p	50	2.58
1,1 Dichloroethane	5	5.47
1,2 Dichloroethane	5	0.35
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	32.17
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	5.11
Tetrachloroethene	0.7	138.01
Toluene	5	0.24
1,1,1 Trichloroethane	5	2.31
Trichloroethylene	5	11.88
Vinyl Chloride	1	0
Xylene, o	5	1.57
Xylene, m&p	5	0.04
Xylene, o,m&p	50	1.61
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by (1)10% lower to the Town.

** All reported concentrations are in ug/l. All concentrations are based on 100% recovery.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
 Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Sep 29, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	228.11
Benzene (ND)	0	3.68
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.69
Chlorodibromomethane	50***	0
Chloroethane	5	0.74
Chloroform	100***	3.79
Dichlorobenzene, o&p	4.7	2.19
Dichlorobenzene, o,m&p	50	2.31
1,1 Dichloroethane	5	5.47
1,2 Dichloroethane	5	0.31
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	34.32
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.05
Methylene Chloride	5	5.65
Tetrachloroethene	0.7	148.94
Toluene	5	0.26
1,1,1 Trichloroethane	5	2.82
Trichloroethylene	5	13.49
Vinyl Chloride	1	3.99
Xylene, o	5	1.56
Xylene, m&p	5	0.04
Xylene, o,m&p	50	1.6
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standard as specified by the General Order and modified by 1/10/93 letter to the Town.

** Compounds exceeding allowed by 1,1,1,2,2,2-HCFCs are not included.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 29, 1993

AM

Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.93
Benzene (ND)	0	0.03
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.01
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.01
Dichlorobenzene, o&p	4.7	0.05
Dichlorobenzene, o,m&p	50	0.07
1,1 Dichloroethane	5	0.01
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.1
trans-1,2 Dichloroethene	5	0.06
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.49
Toluene	5	0.06
1,1,1 Trichloroethane	5	0
Trichloroethylene	5	0.04
Vinyl Chloride	1	0
Xylene, o	5	0.02
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.04
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 15 NYCRR in the Town.

** Compounds exceeding allowable GROUNDWATER concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 30, 1993

AM

Influent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	271.93
Benzene (ND)	0	4.64
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.85
Chlorodibromomethane	50***	0
Chloroethane	5	0.86
Chloroform	100***	2.78
Dichlorobenzene, o&p	4.7	2.52
Dichlorobenzene, o,m&p	50	2.66
1,1 Dichloroethane	5	4.39
1,2 Dichloroethane	5	0.36
1,1 Dichloroethene	0.07	0.07
cis-1,2 Dichloroethene	5	42.09
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.06
Methylene Chloride	5	5.12
Tetrachloroethene	0.7	182.38
Toluene	5	0.06
1,1,1 Trichloroethane	5	2.86
Trichloroethylene	5	14.61
Vinyl Chloride	1	6.18
Xylene, o	5	1.97
Xylene, m&p	5	0.02
Xylene, o,m&p	50	1.99
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/91 letter to the Town.

** Compounds exceeding allowable (MCL) concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

LEWISTON TOWN OF OYSTERS
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 30, 1993 AM Effluent

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	0.73
Benzene (ND)	0	0.03
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.02
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	0.04
Dichlorobenzene, o,m&p	50	0.07
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	0.08
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	0
Tetrachloroethene	0.7	0.23
Toluene	5	0.02
1,1,1 Trichloroethane	5	0.01
Trichloroethylene	5	0.25
Vinyl Chloride	1	0
Xylene, o	5	0.01
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.02
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Current Tables and modified by 11/10/92 New York State Laws.

** Compounds exceeding allowable MCL-MCLDL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF CASTLEBAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 1, 1993

WELL

1

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	19.49
Benzene (ND)	0	2.2
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.63
Chlorodibromomethane	50***	0
Chloroethane	5	0.23
Chloroform	100***	0.6
Dichlorobenzene, o&p	4.7	2.87
Dichlorobenzene, o,m&p	50	2.96
1,1 Dichloroethane	5	1.51
1,2 Dichloroethane	5	0.19
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	3.99
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	4.19
Tetrachloroethene	0.7	0.01
Toluene	5	0
1,1,1 Trichloroethane	5	0.08
Trichloroethylene	5	0.79
Vinyl Chloride	1	1.08
Xylene, o	5	0.06
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.09
four Trihalomethanes (***)	100	0

Regulatory allowed discharge standards as specified in the Clean Water Act and modified by 11/1988 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 8, 1993

WELL

1

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	21.14
Benzene (ND)	0	2.63
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.96
Chlorodibromomethane	50***	0
Chloroethane	5	0.24
Chloroform	100***	0.72
Dichlorobenzene, o&p	4.7	3.64
Dichlorobenzene, o,m&p	50	3.78
1,1 Dichloroethane	5	1.72
1,2 Dichloroethane	5	0.13
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	4.62
trans-1,2 Dichloroethene	5	1.11
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.06
Methylene Chloride	5	2.22
Tetrachloroethene	0.7	1.37
Toluene	5	0
1,1,1 Trichloroethane	5	0.16
Trichloroethylene	5	1.12
Vinyl Chloride	1	0.06
Xylene, o	5	0.19
Xylene, m&p	5	0.06
Xylene, o,m&p	50	0.24
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Chemical Discharge and modified by 11/1990 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

HOWLAND COUNTY, N.Y.
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Jul 15, 1983

WELL

1

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	26.01
Benzene (ND)	0	2.97
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.14
Chlorodibromomethane	50***	0
Chloroethane	5	0.15
Chloroform	100***	0.91
Dichlorobenzene, o&p	4.7	4.05
Dichlorobenzene, o,m&p	50	4.2
1,1 Dichloroethane	5	1.57
1,2 Dichloroethane	5	0.14
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	5.14
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	4.88
Tetrachloroethene	0.7	1.67
Toluene	5	0.03
1,1,1 Trichloroethane	5	0.2
Trichloroethylene	5	1.03
Vinyl Chloride	1	1.89
Xylene, o	5	0.18
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.21
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/82 letter to the Town

** Compounds exceeding allowable PCE-DEI concentrations are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l

Organlos Analysis Report

TOWN OF WESTBURY

Department of Public Works
Groundwater Treatment Facility
HOWARD A. ANTHONY CENTER

Jul 22, 1993

WELL

1

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)

Total VOCs	100	35.14
Benzene (ND)	0	3.69
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.33
Chlorodibromomethane	50***	0
Chloroethane	5	1.23
Chloroform	100***	0.86
Dichlorobenzene, o&p	4.7	4.76
Dichlorobenzene, o,m&p	50	4.94
1,1 Dichloroethane	5	2.29
1,2 Dichloroethane	5	0.15
1,1 Dichloroethene	0.07	0.29
cis-1,2 Dichloroethene	5	5.98
trans-1,2 Dichloroethene	5	0.52
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	4.23
Tetrachloroethene	0.7	1.58
Toluene	5	0.03
1,1,1 Trichloroethane	5	0.24
Trichloroethylene	5	1.38
Vinyl Chloride	1	6.19
Xylene, o	5	0.19
Xylene, m&p	5	0.09
Xylene, o,m&p	50	0.22
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report



Department of Public Works
 Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT

Aug 5, 1993

WELL

1

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	34.06
Benzene (ND)	0	2.98
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.31
Chlorodibromomethane	50***	0
Chloroethane	5	1.2
Chloroform	100***	0.76
Dichlorobenzene, o&p	4.7	3.55
Dichlorobenzene, o,m&p	50	3.74
1,1 Dichloroethane	5	2.53
1,2 Dichloroethane	5	0.17
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	5.7
trans-1,2 Dichloroethene	5	0.66
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.11
Methylene Chloride	5	6.39
Tetrachloroethene	0.7	1.31
Toluene	5	0.06
1,1,1 Trichloroethane	5	0.17
Trichloroethylene	5	1.09
Vinyl Chloride	1	6.66
Xylene, o	5	0.18
Xylene, m&p	5	0.05
Xylene, o,m&p	50	0.23
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Control Orders and modified by 1990B1 laws in the Town.

** Compounds exceeding allowable MFL/MTL concentrations are highlighted.

*** Total concentration of four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Jul 1, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	29.94
Benzene (ND)	0	1.71
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.48
Chlorodibromomethane	50***	0
Chloroethane	5	1.12
Chloroform	100***	0.94
Dichlorobenzene, o&p	4.7	4.99
Dichlorobenzene, o,m&p	50	5.29
1,1 Dichloroethane	5	3.39
1,2 Dichloroethane	5	0.36
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	6.79
trans-1,2 Dichloroethene	5	0.12
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.14
Methylene Chloride	5	4.66
Tetrachloroethene	0.7	1.37
Toluene	5	0.09
1,1,1 Trichloroethane	5	0.45
Trichloroethylene	5	1.57
Vinyl Chloride	1	0.26
Xylene, o	5	0.09
Xylene, m&p	5	0.13
Xylene, o,m&p	50	0.22
fourTrihalomethanes (***)	100	0

* Regulatory limits on organic substances at specified in the Contaminant Criteria and modified by 1/10/93 letter to the Town

** Compounds exceeding allowable 1,1,1,2,2,2-PCE, 1,1,1,2,2,2-Perchloroethane are highlighted

*** Total concentration of 4 compounds: 1,1,1,2,2,2-PCE, 1,1,1,2,2,2-Perchloroethane, 1,1,1,2,2,2-TCE, and 1,1,1,2,2,2-TCF (100 ug/l)

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Jul 16, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	35.28
Benzene (ND)	0	1.95
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.69
Chlorodibromomethane	50***	0
Chloroethane	5	1.04
Chloroform	100***	1.47
Dichlorobenzene, o&p	4.7	5.09
Dichlorobenzene, o,m&p	50	5.15
1,1 Dichloroethane	5	4.06
1,2 Dichloroethane	5	0.19
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	7.89
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	4.17 3.68
Tetrachloroethene	0.7	2.17 1.48
Toluene	5	0
1,1,1 Trichloroethane	5	1
Trichloroethylene	5	1.99 2.01
Vinyl Chloride	1	1.08 3.39
Xylene, o	5	0.45
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.48
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Current Orders and modified by E-1016 issued to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 29, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	18.63
Benzene (ND)	0	0.34
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.48
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.74
Dichlorobenzene, o&p	4.7	2.56
Dichlorobenzene, o,m&p	50	2.61
1,1 Dichloroethane	5	0.98
1,2 Dichloroethane	5	0.05
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	2.76
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	6.25
Tetrachloroethene	0.7	0.62
Toluene	5	0
1,1,1 Trichloroethane	5	0.19
Trichloroethylene	5	0.63
Vinyl Chloride	1	0.67
Xylene, o	5	0.08
Xylene, m&p	5	0.03
Xylene, o,m&p	50	0.11
fourTrihalomethanes (***)	100	0

* Regulatory national discharge standards are specified in the Clean Water Act and modified by 1/10/90 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 5, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	42.2
Benzene (ND)	0	2.19
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.9
Chlorodibromomethane	50***	0
Chloroethane	5	2.55
Chloroform	100***	1.45
Dichlorobenzene, o&p	4.7	5.72
Dichlorobenzene, o,m&p	50	5.85
1,1 Dichloroethane	5	4.68
1,2 Dichloroethane	5	0.27
1,1 Dichloroethene	0.07	0.1
cis-1,2 Dichloroethene	5	8.21
trans-1,2 Dichloroethene	5	0.77
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.11
Methylene Chloride	5	6.8
Tetrachloroethene	0.7	1.62
Toluene	5	0.05
1,1,1 Trichloroethane	5	1.34
Trichloroethylene	5	1.73
Vinyl Chloride	1	2
Xylene, o	5	0.53
Xylene, m&p	5	0.05
Xylene, o,m&p	50	0.58
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by EPA/DOH Order to the Town.

** Compounds exceeding allowable EPA/DOH concentration are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTERS BAY
 Department of Public Works
 Groundwater Treatment Facility
 OYSTERS BAY, NEW YORK



Aug 12, 1998

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	35.58
Benzene (ND)	0	1.9
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.49
Chlorodibromomethane	50***	0
Chloroethane	5	1.57
Chloroform	100***	1.18
Dichlorobenzene, o&p	4.7	4.74
Dichlorobenzene, o,m&p	50	5
1,1 Dichloroethane	5	3.61
1,2 Dichloroethane	5	0.11
1,1 Dichloroethene	0.07	0.18
cis-1,2 Dichloroethene	5	7.97
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	4.52
Tetrachloroethene	0.7	1.16
Toluene	5	0
1,1,1 Trichloroethane	5	0.7
Trichloroethylene	5	1.54
Vinyl Chloride	1	4.21
Xylene, o	5	0.38
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.4
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by DCE 1998 Order to the Town.

** Compounds exceeding allowable PPEL/MTL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

LEWIS COUNTY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 19, 1993 WELL 2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	96.99
Benzene (ND)	0	2.38
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.61
Chlorodibromomethane	50***	0
Chloroethane	5	0.89
Chloroform	100***	1.08
Dichlorobenzene, o&p	4.7	4.45
Dichlorobenzene, o,m&p	50	4.78
1,1 Dichloroethane	5	3.29
1,2 Dichloroethane	5	0.12
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethane	5	8.75
trans-1,2 Dichloroethane	5	0.17
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.19
Methylene Chloride	5	3.45
Tetrachloroethane	0.7	1.57
Toluene	5	0.12
1,1,1 Trichloroethane	5	0.96
Trichloroethylene	5	1.82
Vinyl Chloride	1	3.44
Xylene, o	5	1.67
Xylene, m&p	5	0.1
Xylene, o,m&p	50	1.77
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by 62 NYCRR 3.1(b)(3).

** Comparative monitoring allowed by 62 NYCRR 3.1(b)(3) - maximum allowed per regulatory standard.

*** Total Trihalomethanes (TTHM) allowed by 62 NYCRR 3.1(b)(3) - maximum allowed per regulatory standard.

Organics Analysis Report

TOWN OF CENTER HAVEN

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 26, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	34.95
Benzene (ND)	0	2.37
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.93
Chlorodibromomethane	50***	0
Chloroethane	5	0.58
Chloroform	100***	1.51
Dichlorobenzene, o&p	4.7	5.97
Dichlorobenzene, o,m&p	50	6.33
1,1 Dichloroethane	5	3.31
1,2 Dichloroethane	5	0.13
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	9.77
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.1
Methylene Chloride	5	4.28
Tetrachloroethene	0.7	1.47
Toluene	5	0.1
1,1,1 Trichloroethane	5	0.78
Trichloroethylene	5	1.77
Vinyl Chloride	1	0
Xylene, o	5	0.48
Xylene, m&p	5	0.08
Xylene, o,m&p	50	0.54
four Trihalomethanes (****)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 1991/92 Order for Consent Decree

** Compounds exceeding allowable PCE/TCE/MSL concentrations are highlighted

*** Total trihalomethanes (TTHM) as specified in the Consent Decree

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 2, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	33.44
Benzene (ND)	0	2.12
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.76
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	5.29
Dichlorobenzene, o,m&p	60	5.66
1,1 Dichloroethane	6	2.92
1,2 Dichloroethane	6	0.08
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	9.63
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.11
Methylene Chloride	5	3.2
Tetrachloroethene	0.7	1.41
Toluene	6	0.12
1,1,1 Trichloroethane	5	0.58
Trichloroethylene	6	1.79
Vinyl Chloride	1	3.49
Xylene, o	5	0.49
Xylene, m&p	5	0.08
Xylene, o,m&p	50	0.57
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by E/10/92 letter to the Town.

** Compounds exceeding allowable MTHM/T concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF Oyster Bay
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 9, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	34.62
Benzene (ND)	0	2.13
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.81
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.94
Dichlorobenzene, o&p	4.7	5.81
Dichlorobenzene, o,m&p	60	6.09
1,1 Dichloroethane	5	3.98
1,2 Dichloroethane	5	0.17
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	9.26
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	4.03
Tetrachloroethene	0.7	1.24
Toluene	5	0
1,1,1 Trichloroethane	5	1.15
Trichloroethylene	5	1.98
Vinyl Chloride	1	0.33
Xylene, o	5	0.45
Xylene, m&p	5	0
Xylene, o,m&p	60	0.45
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/11/93 letter to the Town

** Comparison monitoring allowable 1,1,1,1,1,1,1,1,1,1 concentrations not highlighted

*** Total concentrations of these four trihalomethanes shall not exceed 100 ug/l

Organics Analysis Report

TOWN OF Oyster Bay
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 16, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	33.96
Benzene (ND)	0	1.94
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.64
Chlorodibromomethane	50***	0
Chloroethane	5	1.02
Chloroform	100***	1.62
Dichlorobenzene, o&p	4.7	4.81
Dichlorobenzene, o,m&p	50	5.09
1,1 Dichloroethane	5	3.7
1,2 Dichloroethane	5	0.11
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	8.76
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	5.31
Tetrachloroethene	0.7	1.31
Toluene	5	0
1,1,1 Trichloroethane	5	1.03
Trichloroethylene	5	1.67
Vinyl Chloride	1	0.25
Xylene, o	5	0.4
Xylene, m&p	5	0.04
Xylene, o,m&p	50	0.44
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 23, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	37.63
Benzene (ND)	0	2.25
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.94
Chlorodibromomethane	50***	0
Chloroethane	5	0.84
Chloroform	100***	1.9
Dichlorobenzene, o&p	4.7	5.34
Dichlorobenzene, o,m&p	50	5.6
1,1 Dichloroethane	5	2.35
1,2 Dichloroethane	5	0.13
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	11.13
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.08
Methylene Chloride	5	5.5
Tetrachloroethene	0.7	1.66
Toluene	5	0
1,1,1 Trichloroethane	5	0.95
Trichloroethylene	5	2.28
Vinyl Chloride	1	0.57
Xylene, o	5	0.45
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.47
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/92 letter to the Town.

** Compounds exceeding allowable **EEFLCMT** concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

EDWARD BROOKLYN
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Sep 30, 1993

WELL

2

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	33.37
Benzene (ND)	0	2.06
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.62
Chlorodibromomethane	50***	0
Chloroethane	5	0.22
Chloroform	100***	0.69
Dichlorobenzene, o&p	4.7	4.32
Dichlorobenzene, o,m&p	50	4.57
1,1 Dichloroethane	5	3.43
1,2 Dichloroethane	5	0.09
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	6	10.55
trans-1,2 Dichloroethene	6	0
1,2 Dichloropropane	6	0
Ethylbenzene	6	0.06
Methylene Chloride	6	4.96
Tetrachloroethene	0.7	2.03
Toluene	5	0.04
1,1,1 Trichloroethane	5	0.63
Trichloroethylene	5	2.06
Vinyl Chloride	1	0
Xylene, o	5	0.37
Xylene, m&p	5	0.01
Xylene, o,m&p	50	0.38
four Trihalomethanes (***)	100	0

* Regulatory surface discharge standards as specified in the Clean Air Act and modified by 11/10/88 rules to the Town.

** Compounds exceeding allowable PCE/UVCL concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 1, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	193.24
Benzene (ND)	0	7.74
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.38
Chlorodibromomethane	50***	0
Chloroethane	5	0.78
Chloroform	100***	7.11
Dichlorobenzene, o&p	4.7	1.68
Dichlorobenzene, o,m&p	50	1.93
1,1 Dichloroethane	5	19.29
1,2 Dichloroethane	5	0.66
1,1 Dichloroethene	0.07	0.59
cis-1,2 Dichloroethene	5	94.99
trans-1,2 Dichloroethene	5	1.3
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	16.74
Tetrachloroethene	0.7	26.2
Toluene	5	0.13
1,1,1 Trichloroethane	5	2.01
Trichloroethylene	5	7.68
Vinyl Chloride	1	4.54
Xylene, o	5	0.05
Xylene, m&p	5	0.05
Xylene, o,m&p	50	0.1
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Current Orders and modified by T110200 NEW YORK TOWN.

** Compounds exceeding allowable EFFECT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 8, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)

Total VOCs	100	220.31
Benzene (ND)	0	9.24
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.72
Chlorodibromomethane	50***	0
Chloroethane	5	0.33
Chloroform	100***	9.69
Dichlorobenzene, o&p	4.7	2.11
Dichlorobenzene, o,m&p	50	2.28
1,1 Dichloroethane	5	23.22
1,2 Dichloroethane	5	0.4
1,1 Dichloroethene	0.07	0.19
cis-1,2 Dichloroethene	5	111.2
trans-1,2 Dichloroethene	5	0.13
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.14
Methylene Chloride	5	3.47
Tetrachloroethene	0.7	31.63
Toluene	5	0.16
1,1,1 Trichloroethane	5	3.49
Trichloroethylene	5	9.74
Vinyl Chloride	1	7.23
Xylene, o	5	6.06
Xylene, m&p	5	0.09
Xylene, o,m&p	50	6.15
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Current Rules and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable MTELCNT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Jul 15, 1988

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	292.5
Benzene (ND)	0	10.58
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	2.25
Chlorodibromomethane	50***	0
Chloroethane	5	4.15
Chloroform	100***	14.49
Dichlorobenzene, o&p	4.7	2.45
Dichlorobenzene, o,m&p	50	4.08
1,1 Dichloroethane	5	27.67
1,2 Dichloroethane	5	0.59
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	131.46
trans-1,2 Dichloroethene	5	2.37
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	14.54
Tetrachloroethene	0.7	37.08
Toluene	5	0.23
1,1,1 Trichloroethane	5	4.4
Trichloroethylene	5	11.88
Vinyl Chloride	1	20.16
Xylene, o	5	6.5
Xylene, m&p	5	0.09
Xylene, o,m&p	50	6.59
four Trihalomethanes (***)	100	0

* Regulatory allowed thresholds standards as specified in the Current Health and modified by 11/1988 letter to the Town.

** Compounds exceeding allowable MTHLHNT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 22, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	315.6
Benzene (ND)	0	12.45
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	2.34
Chlorodibromomethane	60***	0
Chloroethane	5	10.76
Chloroform	100***	11.71
Dichlorobenzene, o&p	4.7	2.48
Dichlorobenzene, o,m&p	50	2.89
1,1 Dichloroethane	5	25.1
1,2 Dichloroethane	5	0.63
1,1 Dichloroethene	0.07	1.18
cis-1,2 Dichloroethene	5	144.19
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	7.14
Tetrachloroethene	0.7	42.48
Toluene	5	0.19
1,1,1 Trichloroethane	5	3.76
Trichloroethylene	5	12.78
Vinyl Chloride	1	30.77
Xylene, o	5	7.16
Xylene, m&p	5	0.07
Xylene, o,m&p	50	7.23
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by 11/10/92 laws to the Town.

** Compounds exceeding allowable PPT/UGHT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 29, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	359.98
Benzene (ND)	0	13.16
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	3.22
Chlorodibromomethane	50***	0
Chloroethane	5	7.66
Chloroform	100***	16.34
Dichlorobenzene, o&p	4.7	4.39
Dichlorobenzene, o,m&p	50	4.99
1,1 Dichloroethane	5	29.99
1,2 Dichloroethane	5	0.92
1,1 Dichloroethene	0.07	1.39
cis-1,2 Dichloroethene	5	162.79
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	20.84
Tetrachloroethene	0.7	45.05
Toluene	5	0.26
1,1,1 Trichloroethane	5	4.11
Trichloroethylene	5	12.87
Vinyl Chloride	1	27.52
Xylene, o	5	8.74
Xylene, m&p	5	0.13
Xylene, o,m&p	50	8.87
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/16/92 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 5, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	324.55
Benzene (ND)	0	11.26
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	2.36
Chlorodibromomethane	50***	0
Chloroethane	5	9.19
Chloroform	100***	13.18
Dichlorobenzene, o&p	4.7	2.65
Dichlorobenzene, o,m&p	50	4.41
1,1 Dichloroethane	5	29.15
1,2 Dichloroethane	5	0.97
1,1 Dichloroethene	0.07	0.45
cis-1,2 Dichloroethene	5	138.52
trans-1,2 Dichloroethene	5	0.06
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.15
Methylene Chloride	5	15.61
Tetrachloroethene	0.7	44
Toluene	5	0.18
1,1,1 Trichloroethane	5	4.21
Trichloroethylene	5	13.33
Vinyl Chloride	1	30.19
Xylene, o	5	7.25
Xylene, m&p	5	0.08
Xylene, o,m&p	50	7.33
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by E/10/92 Annex to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 12, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	277.88
Benzene (ND)	0	9.91
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.69
Chlorodibromomethane	50***	0
Chloroethane	5	6.7
Chloroform	100***	14.69
Dichlorobenzene, o&p	4.7	1.32
Dichlorobenzene, o,m&p	50	1.54
1,1 Dichloroethane	5	27.27
1,2 Dichloroethane	5	0.62
1,1 Dichloroethene	0.07	0.34
cis-1,2 Dichloroethene	5	121.47
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.09
Methylene Chloride	5	14.01
Tetrachloroethene	0.7	38.98
Toluene	5	0.14
1,1,1 Trichloroethane	5	5.08
Trichloroethylene	5	10.11
Vinyl Chloride	1	21.11
Xylene, o	5	6.07
Xylene, m&p	5	0.08
Xylene, o,m&p	50	6.13
four Trihalomethanes (***)	100	0

* The safety allowed discharge standards as specified in the Groundwater Protection Ordinance and amended by 11/10/93 letter to the Town.

** Comparison against the California 1991 DDT/PCB standard (100 ug/l).

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Aug 18, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	277.45
Benzene (ND)	0	10.69
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.62
Chlorodibromomethane	50***	0
Chloroethane	5	3.43
Chloroform	100***	13.88
Dichlorobenzene, o&p	4.7	1.1
Dichlorobenzene, o,m&p	50	1.28
1,1 Dichloroethane	5	24.31
1,2 Dichloroethane	5	0.62
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	131.41
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.08
Methylene Chloride	5	10.74
Tetrachloroethene	0.7	41.28
Toluene	5	0.16
1,1,1 Trichloroethane	5	4.52
Trichloroethylene	5	8.98
Vinyl Chloride	1	17.21
Xylene, o	5	8.25
Xylene, m&p	5	0.05
Xylene, o,m&p	50	6.3
four Trihalomethanes (***)	100	0

* Regulatory values listed in this table are specified in Part 201 of the Environmental Conservation Law and modified by 11/10/93 laws in the Town.

** Concentration exceeding applicable regulatory concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Aug 26, 1988

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	313.78
Benzene (ND)	0	12.29
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	6	0
Chlorobenzene	5	2.25
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	19.27
Dichlorobenzene, o&p	4.7	1.59
Dichlorobenzene, o,m&p	50	1.79
1,1 Dichloroethane	5	25.36
1,2 Dichloroethane	5	0.7
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	154.74
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	6	0
Ethylbenzene	5	0.16
Methylene Chloride	5	13.38
Tetrachloroethene	0.7	43.71
Toluene	6	0.93
1,1,1 Trichloroethane	5	4.37
Trichloroethylene	5	9.79
Vinyl Chloride	1	17.7
Xylene, o	5	7.81
Xylene, m&p	5	0.13
Xylene, o,m&p	50	7.94
four Trihalomethanes (***)	100	0

* Regulatory allowed values are standards as specified in the Current Chapter and modified by H/0000 later to the Town.

** Concentration of each chemical listed in this report shall not exceed the regulatory value.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 2, 1983

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	279.51
Benzene (ND)	0	11.08
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	2.08
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	1.99
Dichlorobenzene, o,m&p	50	2.38
1,1 Dichloroethane	5	23.22
1,2 Dichloroethane	5	0.78
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	143.93
trans-1,2 Dichloroethene	5	0.12
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.17
Methylene Chloride	5	10.64
Tetrachloroethene	0.7	43.24
Toluene	5	0.3
1,1,1 Trichloroethane	5	4.91
Trichloroethylene	5	10.16
Vinyl Chloride	1	19.42
Xylene, o	5	6.95
Xylene, m&p	5	0.16
Xylene, o,m&p	50	7.1
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Chemical Discharge Act imposed by the State upon the Town.

** Compounds exceeding allowable MCL/MCLDT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 16, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	271.64
Benzene (ND)	0	9.72
Bromodichloromethane	50***	0
Bromotom	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	1.88
Chlorodibromomethane	50***	0
Chloroethane	5	4
Chloroform	100***	14.49
Dichlorobenzene, o&p	4.7	3.42
Dichlorobenzene, o,m&p	50	3.7
1,1 Dichloroethane	5	23.74
1,2 Dichloroethane	5	0.93
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	170.81
trans-1,2 Dichloroethene	5	2.09
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.12
Methylene Chloride	5	14.18
Tetrachloroethene	0.7	37.8
Toluene	5	0.29
1,1,1 Trichloroethane	5	5.61
Trichloroethylene	5	10.41
Vinyl Chloride	1	15.86
Xylene, o	5	5.92
Xylene, m&p	5	0.09
Xylene, o,m&p	50	6.01
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Contaminant Discharge and Control by 13/11/2001 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 23, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	338.84
Benzene (ND)	0	12.47
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	2.36
Chlorodibromomethane	50***	0
Chloroethane	5	0.59
Chloroform	100***	17.84
Dichlorobenzene, o&p	4.7	3.99
Dichlorobenzene, o,m&p	50	4.25
1,1 Dichloroethane	5	28.2
1,2 Dichloroethane	5	1.19
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	164.04
trans-1,2 Dichloroethene	5	2.48
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.12
Methylene Chloride	5	15.07
Tetrachloroethene	0.7	48.72
Toluene	5	0.2
1,1,1 Trichloroethane	5	6.08
Trichloroethylene	5	12.91
Vinyl Chloride	1	14.84
Xylene, o	5	7.42
Xylene, m&p	5	0.06
Xylene, o,m&p	50	7.49
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and amended by 11/13/92 letter to the Town

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 30, 1993

WELL

3

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	308.11
Benzene (ND)	0	12.11
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	2.02
Chlorodibromomethane	50***	0
Chloroethane	5	4.05
Chloroform	100***	3.04
Dichlorobenzene, o&p	4.7	1.58
Dichlorobenzene, o,m&p	50	1.82
1,1 Dichloroethane	5	25.77
1,2 Dichloroethane	5	0.45
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	149.21
trans-1,2 Dichloroethene	5	1.75
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.09
Methylene Chloride	5	17.12
Tetrachloroethene	0.7	44.26
Toluene	5	0.18
1,1,1 Trichloroethane	5	2.95
Trichloroethylene	5	10.67
Vinyl Chloride	1	24.21
Xylene, o	5	6.39
Xylene, m&p	5	0.04
Xylene, o,m&p	50	6.43
four Trihalomethanes (***)	100	0

* Regulatory organic chemical standards as specified in the Current Orders and modified by 11/10/85 letter to the Town.

** Compounds exceeding allowable MCL/MCLNT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF WESTBURY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT

Jul 1, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	270.13
Benzene (ND)	0	1.77
Bromodichloromethane	50***	0.57
Bromoform	50***	0
Carbon Tetrachloride	5	1.22
Chlorobenzene	5	1.14
Chlorodibromomethane	50***	0
Chloroethane	5	0.44
Chloroform	100***	3.16
Dichlorobenzene, o&p	4.7	4.19
Dichlorobenzene, o,m&p	50	5.21
1,1 Dichloroethane	5	1.94
1,2 Dichloroethane	5	2.05
1,1 Dichloroethene	0.07	0.15
cis-1,2 Dichloroethene	5	7.53
trans-1,2 Dichloroethene	5	1.65
1,2 Dichloropropane	5	2.12
Ethylbenzene	5	1.65
Methylene Chloride	5	11.86
Tetrachloroethene	0.7	215.75
Toluene	5	1.51
1,1,1 Trichloroethane	5	2.58
Trichloroethylene	5	4.67
Vinyl Chloride	1	0.36
Xylene, o	5	1.2
Xylene, m&p	5	1.6
Xylene, o,m&p	50	2.8
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 8, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	218.85
Benzene (ND)	0	0.29
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.42
Dichlorobenzene, o&p	4.7	0.72
Dichlorobenzene, o,m&p	50	0.72
1,1 Dichloroethane	5	0.79
1,2 Dichloroethane	5	0.08
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	6.31
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	5.65
Tetrachloroethene	0.7	196.4
Toluene	5	0
1,1,1 Trichloroethane	5	0.69
Trichloroethylene	5	3.48
Vinyl Chloride	1	2.83
Xylene, o	5	0.27
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.29
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consents Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 22, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)

Total VOCs	100	291.37
Benzene (ND)	0	0.4
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.3
Dichlorobenzene, o&p	4.7	0.94
Dichlorobenzene, o,m&p	50	0.94
1,1 Dichloroethane	5	0.86
1,2 Dichloroethane	5	0.07
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	7.96
trans-1,2 Dichloroethene	5	0.72
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	7.99
Tetrachloroethene	0.7	265.13
Toluene	5	0
1,1,1 Trichloroethane	5	0.51
Trichloroethylene	5	4.06
Vinyl Chloride	1	0.48
Xylene, o	5	0.86
Xylene, m&p	5	0
Xylene, o,m&p	50	0.86
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/92 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

ROSWIDE OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANIC ANALYSIS REPORT



Jul 29, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	325.19
Benzene (ND)	0	0.44
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.1
Dichlorobenzene, o&p	4.7	0.15
Dichlorobenzene, o,m&p	50	0.15
1,1 Dichloroethane	5	1.23
1,2 Dichloroethane	5	0.17
1,1 Dichloroethene	0.07	1.35
cis-1,2 Dichloroethene	5	9.9
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	23.8
Tetrachloroethene	0.7	281.35
Toluene	5	0
1,1,1 Trichloroethane	5	0.71
Trichloroethylene	5	4.76
Vinyl Chloride	1	0.66
Xylene, o	5	0.53
Xylene, m&p	5	0.04
Xylene, o,m&p	50	0.57
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 5, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	298.64
Benzene (ND)	0	0.37
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.48
Dichlorobenzene, o&p	4.7	0.68
Dichlorobenzene, o,m&p	50	0.68
1,1 Dichloroethane	5	1.07
1,2 Dichloroethane	5	0.14
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	8.08
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	15.65
Tetrachloroethene	0.7	264.97
Toluene	5	0
1,1,1 Trichloroethane	5	0.75
Trichloroethylene	5	4.72
Vinyl Chloride	1	0.58
Xylene, o	5	0.16
Xylene, m&p	5	0
Xylene, o,m&p	50	0.16
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by 11/10/92 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF ORISKANY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS RESULTS



Aug 12, 1998

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	254.06
Benzene (ND)	0	0.31
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.04
Dichlorobenzene, o&p	4.7	0.73
Dichlorobenzene, o,m&p	50	0.73
1,1 Dichloroethane	5	0.4
1,2 Dichloroethane	5	0
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethene	5	6.63
trans-1,2 Dichloroethene	5	0.35
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.03
Methylene Chloride	5	11.13
Tetrachloroethene	0.7	226.21
Toluene	5	0
1,1,1 Trichloroethane	5	0.34
Trichloroethylene	5	3.32
Vinyl Chloride	1	2.75
Xylene, o	5	0.78
Xylene, m&p	5	0.04
Xylene, o,m&p	50	0.82
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/1998 letter to the Town.

** Compounds exceeding allowable CPT/CEMT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF TITUSVILLE
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 19, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	286.87
Benzene (ND)	0	0.31
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1
Dichlorobenzene, o&p	4.7	0.35
Dichlorobenzene, o,m&p	50	0.35
1,1 Dichloroethane	5	0.45
1,2 Dichloroethane	5	0
1,1 Dichloroethane	0.07	0
cis-1,2 Dichloroethene	5	7.07
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	9.55
Tetrachloroethene	0.7	262.82
Toluene	5	0
1,1,1 Trichloroethane	5	0.33
Trichloroethylene	5	3.29
Vinyl Chloride	1	1.57
Xylene, o	5	0.11
Xylene, m&p	5	0
Xylene, o,m&p	50	0.11
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/1992 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100ug/l.

Organics Analysis Report

TOWN OF WESTBURY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 26, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	303.46
Benzene (ND)	0	0.44
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.31
Dichlorobenzene, o&p	4.7	0.24
Dichlorobenzene, o,m&p	50	0.24
1,1 Dichloroethane	5	0.51
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	8.12
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	9.7
Tetrachloroethene	0.7	278.64
Toluene	5	0.16
1,1,1 Trichloroethane	5	0.32
Trichloroethylene	5	8.58
Vinyl Chloride	1	0
Xylene, o	5	0.37
Xylene, m&p	5	0.05
Xylene, o,m&p	50	0.42
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by H/10/12 laws of the Town.

** Compounds exceeding allowable MCL/MCLNT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 9, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	334.31
Benzene (ND)	0	0.38
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.2
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.33
Dichlorobenzene, o&p	4.7	0.77
Dichlorobenzene, o,m&p	50	1.13
1,1 Dichloroethane	5	0.22
1,2 Dichloroethane	5	0.15
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	6	7.45
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	6	0
Ethylbenzene	6	0.2
Methylene Chloride	5	9.43
Tetrachloroethene	0.7	307.66
Toluene	5	0.2
1,1,1 Trichloroethane	6	0.44
Trichloroethylene	5	5.04
Vinyl Chloride	1	0
Xylene, o	5	0.28
Xylene, m&p	5	0.2
Xylene, o,m&p	50	0.48
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/1088 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF MILLER HAVEN

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 16, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	273.11
Benzene (ND)	0	0.38
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.09
Dichlorobenzene, o&p	4.7	0.7
Dichlorobenzene, o,m&p	50	0.9
1,1 Dichloroethane	5	0.59
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	7.36
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.05
Methylene Chloride	5	10.36
Tetrachloroethene	0.7	247.73
Toluene	5	0
1,1,1 Trichloroethane	5	0.46
Trichloroethylene	5	3.94
Vinyl Chloride	1	0
Xylene, o	5	0.16
Xylene, m&p	5	0.1
Xylene, o,m&p	50	0.26
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/92 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANIC ANALYSIS REPORT

Sep 23, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	345.25
Benzene (ND)	0	0.41
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	2.66
Dichlorobenzene, o&p	4.7	0.42
Dichlorobenzene, o,m&p	50	0.42
1,1 Dichloroethane	5	0.54
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	9.85
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.03
Methylene Chloride	5	13.32
Tetrachloroethene	0.7	311.29
Toluene	5	0
1,1,1 Trichloroethane	5	0.98
Trichloroethylene	5	5.45
Vinyl Chloride	1	0
Xylene, o	5	0.3
Xylene, m&p	5	0
Xylene, o,m&p	50	0.3
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility
ORGANICS ANALYSIS REPORT



Sep 30, 1993

WELL

4

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	341.46
Benzene (ND)	0	0.51
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.05
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0.95
Dichlorobenzene, o&p	4.7	0.25
Dichlorobenzene, o,m&p	50	0.33
1,1 Dichloroethane	5	1.02
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	11.82
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.02
Methylene Chloride	5	10.83
Tetrachloroethene	0.7	303
Toluene	5	0.1
1,1,1 Trichloroethane	5	0.62
Trichloroethylene	5	5.65
Vinyl Chloride	1	6.46
Xylene, o	5	0.08
Xylene, m&p	5	0.02
Xylene, o,m&p	50	0.1
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Control Decree and modified by H/10/92 letter to the Town.

** Compounds exceeding allowable PPT/PPM concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 1, 1988

WELL

6

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	587.98
Benzene (ND)	0	7.05
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0.28
Chlorobenzene	5	0.49
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	1.81
Dichlorobenzene, o&p	4.7	4.58
Dichlorobenzene, o,m&p	50	5.22
1,1 Dichloroethane	5	0.56
1,2 Dichloroethane	5	0.88
1,1 Dichloroethene	0.07	0.37
cis-1,2 Dichloroethene	5	18.97
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.72
Methylene Chloride	5	19.59
Tetrachloroethene	0.7	488.9
Toluene	5	0.83
1,1,1 Trichloroethane	5	3.86
Trichloroethylene	5	37.84
Vinyl Chloride	1	0
Xylene, o	5	0.11
Xylene, m&p	5	0.72
Xylene, o,m&p	50	0.83
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 1/16/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 8, 1998

WELL

6

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	554.04
Benzene (ND)	0	5.99
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	3.99
Dichlorobenzene, o&p	4.7	4.75
Dichlorobenzene, o,m&p	50	5.01
1,1 Dichloroethane	5	0.42
1,2 Dichloroethane	5	0.53
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	17.78
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	15.14
Tetrachloroethene	0.7	453.32
Toluene	5	0
1,1,1 Trichloroethane	5	5.83
Trichloroethylene	5	43.17
Vinyl Chloride	1	0
Xylene, o	5	2.63
Xylene, m&p	5	0.13
Xylene, o,m&p	50	2.76
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/1990 letter to the Town.

** Compounds exceeding allowed 1,1,1,1-TETRA - concentrations are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Jul 16, 1993

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	665.09
Benzene (ND)	0	9.84
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.19
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	3.22
Dichlorobenzene, o&p	4.7	4.36
Dichlorobenzene, o,m&p	50	4.66
1,1 Dichloroethane	5	0.84
1,2 Dichloroethane	5	0.43
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	24.67
trans-1,2 Dichloroethene	5	2.56
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	18.59
Tetrachloroethene	0.7	526.85
Toluene	5	0.25
1,1,1 Trichloroethane	5	6.93
Trichloroethylene	5	54.1
Vinyl Chloride	1	8.15
Xylene, o	5	3.56
Xylene, m&p	5	0.26
Xylene, o,m&p	50	3.82
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by E-11000 letter to the Town.

** Compounds measured in ug/liter are E-11000-01 concentrations are highlighted

*** Total concentration of base for trihalomethanes shall not exceed 100 ug/l

Organics Analysis Report

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Jul 22, 1993

WELL

6

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	635.31
Benzene (ND)	0	7.89
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	2.38
Dichlorobenzene, o&p	4.7	3.8
Dichlorobenzene, o,m&p	50	3.84
1,1 Dichloroethane	5	0.44
1,2 Dichloroethane	5	0.21
1,1 Dichloroethene	0.07	1.7
cis-1,2 Dichloroethene	5	21.72
trans-1,2 Dichloroethene	5	1.53
1,2 Dichloropropane	5	0
Ethylbenzene	5	0
Methylene Chloride	5	17.28
Tetrachloroethene	0.7	513.74
Toluene	5	0
1,1,1 Trichloroethane	5	5.53
Trichloroethylene	5	52.61
Vinyl Chloride	1	3.54
Xylene, o	5	2.98
Xylene, m&p	5	0.14
Xylene, o,m&p	50	3.12
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Groundwater Protection Act modified by 11/19/90 order of the town.

** Compounds exceeding allowable MTHLCHT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 5, 1993

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	670.86
Benzene (ND)	0	7.91
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	2.88
Dichlorobenzene, o&p	4.7	4.91
Dichlorobenzene, o,m&p	50	4.56
1,1 Dichloroethane	5	0.62
1,2 Dichloroethane	5	0.32
1,1 Dichloroethene	0.07	0.8
cis-1,2 Dichloroethene	5	22.71
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.01
Methylene Chloride	5	30.61
Tetrachloroethene	0.7	536.36
Toluene	5	0
1,1,1 Trichloroethane	5	6.01
Trichloroethylene	5	54.41
Vinyl Chloride	1	0
Xylene, o	5	3.55
Xylene, m&p	5	0.11
Xylene, o,m&p	50	3.66
four Trihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by H21000 letter to the Town.

** Compounds exceeding allowed discharge standards are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OISTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 12, 1999

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	538.91
Benzene (ND)	0	5.75
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	3.32
Dichlorobenzene, o&p	4.7	2.94
Dichlorobenzene, o,m&p	50	2.94
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	17.68
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.06
Methylene Chloride	5	19.11
Tetrachloroethene	0.7	440.13
Toluene	5	0
1,1,1 Trichloroethane	5	4.31
Trichloroethylene	5	42.98
Vinyl Chloride	1	0
Xylene, o	5	2.48
Xylene, m&p	5	0.15
Xylene, o,m&p	50	2.63
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Clean Air Act and modified by Title V rules in the Town.

** Compounds exceeding allowable CRF/CAAT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF OYSTER BAY
 Department of Public Works
 Groundwater Treatment Facility
 ORGANICS ANALYSIS REPORT



Aug 19, 1993

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	597.74
Benzene (ND)	0	6.14
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	3.4
Dichlorobenzene, o&p	4.7	3.68
Dichlorobenzene, o,m&p	50	3.68
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	20.46
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.04
Methylene Chloride	5	14.38
Tetrachloroethene	0.7	489.16
Toluene	5	0
1,1,1 Trichloroethane	5	4.83
Trichloroethylene	5	43.31
Vinyl Chloride	1	0
Xylene, o	5	2.34
Xylene, m&p	5	0
Xylene, o,m&p	50	2.34
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Contingency Plan and modified by TW/1993 letter to the Town.

** Compounds exceeding allowable EPA/USEPA concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF WESTBURY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Aug 26, 1998

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	647.59
Benzene (ND)	0	0.73
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	3.15
Dichlorobenzene, o&p	4.7	3.49
Dichlorobenzene, o,m&p	50	3.71
1,1 Dichloroethane	5	0.2
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	22.88
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	19.85
Tetrachloroethene	0.7	538.64
Toluene	5	0.38
1,1,1 Trichloroethane	5	4.21
Trichloroethylene	5	47.08
Vinyl Chloride	1	0
Xylene, o	5	2.73
Xylene, m&p	5	0.18
Xylene, o,m&p	50	2.91
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/93 letter to the Town.

** Compound exceeding allowable PFC/PCAT concentration as specified.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

LOWELL CENTRAL
 Department of Public Works
 Groundwater Treatment Facility
 RICHARDSON AVENUE, DEERFIELD



Sep 2, 1999

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	600.43
Benzene (ND)	0	6.29
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.58
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	0
Dichlorobenzene, o&p	4.7	4.3
Dichlorobenzene, o,m&p	50	4.99
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	23.18
trans-1,2 Dichloroethene	5	1.12
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.38
Methylene Chloride	5	18.1
Tetrachloroethene	0.7	493.49
Toluene	5	0.56
1,1,1 Trichloroethane	5	3.16
Trichloroethylene	5	44.76
Vinyl Chloride	1	0
Xylene, o	5	3.29
Xylene, m&p	5	0.53
Xylene, o,m&p	50	3.82
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/98 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.



TOWN OF OYSTER BAY

 Department of Public Works
 Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT

Sep 9, 1993

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	618.56
Benzene (ND)	0	6.21
Bromodichloromethane	50 ^{***}	0
Bromoform	50 ^{***}	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.46
Chlorodibromomethane	50 ^{***}	0
Chloroethane	5	0
Chloroform	100 ^{***}	6.88
Dichlorobenzene, o&p	4.7	5.03
Dichlorobenzene, o,m&p	50	5.77
1,1 Dichloroethane	5	0
1,2 Dichloroethane	5	1.35
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	21.63
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.45
Methylene Chloride	5	27.49
Tetrachloroethene	0.7	486.04
Toluene	5	0.52
1,1,1 Trichloroethane	5	6.79
Trichloroethylene	5	51.07
Vinyl Chloride	1	0
Xylene, o	5	3.37
Xylene, m&p	5	0.53
Xylene, o,m&p	50	3.9
fourTrihalomethanes (^{***})	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/1988 letter to the Town.

** Components exceeding applicable PCE/1,1,1-TCE/total trihalomethanes are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

Organics Analysis Report

TOWN OF TILLET

Department of Public Works
Groundwater Treatment Facility

ORGANIC ANALYSIS REPORT



Sep 16, 1993

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	588.36
Benzene (ND)	0	6.1
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	4.4
Dichlorobenzene, o&p	4.7	4.32
Dichlorobenzene, o,m&p	50	4.72
1,1 Dichloroethane	5	0.25
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	21.25
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.27
Methylene Chloride	5	22.98
Tetrachloroethene	0.7	481.67
Toluene	5	0.41
1,1,1 Trichloroethane	5	4.96
Trichloroethylene	5	47.86
Vinyl Chloride	1	0
Xylene, o	5	3.13
Xylene, m&p	5	0.36
Xylene, o,m&p	50	3.49
four Trihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/1993 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF OYSTER BAY

Department of Public Works
Groundwater Treatment Facility

ORGANICS ANALYSIS REPORT



Sep 23, 1993

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	656.01
Benzene (ND)	0	7.41
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.33
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	6.37
Dichlorobenzene, o&p	4.7	4.8
Dichlorobenzene, o,m&p	50	5.2
1,1 Dichloroethane	5	0.27
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	27.42
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.23
Methylene Chloride	5	26.43
Tetrachloroethene	0.7	523.27
Toluene	5	0.3
1,1,1 Trichloroethane	5	5.83
Trichloroethylene	5	50.3
Vinyl Chloride	1	0
Xylene, o	5	3.28
Xylene, m&p	5	0.27
Xylene, o,m&p	50	3.55
fourTrihalomethanes (***)	100	0

* Regulatory allowed discharge standards as specified in the Consent Decree and modified by 11/10/93 letter to the Town.

** Compounds exceeding allowed in P-T-T-L-E-HI concentrations are highlighted

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

TOWN OF BEREA

Department of Public Works
Groundwater Treatment Facility
ORGANIC ANALYSIS REPORT



Sep 30, 1993

WELL

5

Chemical Constituent	Concentration	
	Allowed * (ug/l)	Measured ** (ug/l)
Total VOCs	100	600.89
Benzene (ND)	0	6.52
Bromodichloromethane	50***	0
Bromoform	50***	0
Carbon Tetrachloride	5	0
Chlorobenzene	5	0.12
Chlorodibromomethane	50***	0
Chloroethane	5	0
Chloroform	100***	3.48
Dichlorobenzene, o&p	4.7	2.92
Dichlorobenzene, o,m&p	50	3.08
1,1 Dichloroethane	5	0.35
1,2 Dichloroethane	5	0
1,1 Dichloroethene	0.07	0
cis-1,2 Dichloroethene	5	25.39
trans-1,2 Dichloroethene	5	0
1,2 Dichloropropane	5	0
Ethylbenzene	5	0.07
Methylene Chloride	5	22.17
Tetrachloroethene	0.7	487.07
Toluene	5	0.09
1,1,1 Trichloroethane	5	4.65
Trichloroethylene	5	45.58
Vinyl Chloride	1	0
Xylene, o	5	2.37
Xylene, m&p	5	0.07
Xylene, o,m&p	50	2.44
fourTrihalomethanes (***)	100	0

* Regulatory effluent discharge standards as specified in the Consent Decree and modified by 11/10/88 letter to the Town.

** Compounds exceeding allowable EFFLUENT concentrations are highlighted.

*** Total concentration of these four trihalomethanes shall not exceed 100 ug/l.

APPENDIX D

Self-Monitoring Inorganic Analyses

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30702IA	SAMPLER:	PM/MA
LOCATION:	INFLUENT-RAP	ANALYST:	PM
DATE:	7/2/93	TIME:	8:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.255
DISSOLVED OXYGEN	>=5.0	2.9
AMMONIA	10	6.5

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30702EA	SAMPLER:	PM/MA
LOCATION:	EFFLUENT-RAP	ANALYST:	PM
DATE:	7/2/93	TIME:	8:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.257
DISSOLVED OXYGEN	>=5.0	6.5
AMMONIA	10	6.75

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30712IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/12/93	TIME:	11:45 AM

WELL #1 & #3 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON. TOTAL	0.3	NOT PERFORMED
MANGANESE. TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30712 EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/12/93	TIME:	11:30

WELL #1 & #9 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30714IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/14/93	TIME:	8:30 AM

WELL #5 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30714EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/14/93	TIME:	8:20 AM

WELL #5 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30716IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/16/93	TIME:	8:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON. TOTAL	0.3	0.05
MANGANESE. TOTAL	0.3	.270
DISSOLVED OXYGEN	>=5.0	3.0
AMMONIA	10	9.5

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30716EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/16/93	TIME:	7:55 AM

WELL #3 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.268
DISSOLVED OXYGEN	>=5.0	8.8
AMMONIA	10	9

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	307191A	SAMPLER:	MA & JB
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/19/93	TIME:	11:05AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30719EA	SAMPLER:	MA & JB
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/19/93	TIME:	11:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30721 IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/21/98	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30721EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/21/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30723IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/23/93	TIME:	10:40 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.262
DISSOLVED OXYGEN	>=5.0	4.5
AMMONIA	10	5.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30723EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/23/93	TIME:	10:35 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.264
DISSOLVED OXYGEN	>=5.0	8.7
AMMONIA	10	5.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30726IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/26/93	TIME:	11:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30726EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/26/93	TIME:	10:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	307281A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/28/93	TIME:	7:50 AM

WELL #2 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON. TOTAL	0.3	NOT PERFORMED
MANGANESE. TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30728EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAO	ANALYST:	LK
DATE:	7/28/93	TIME:	7:45 AM

WELL #2 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30730IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	7/30/95	TIME:	7:55 AM

WELL #1 & #5 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.207
DISSOLVED OXYGEN	>=5.0	2.4
AMMONIA	10	7.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30730EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	7/30/93	TIME:	7:55 AM

WELL #1 & #5 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)*	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.198
DISSOLVED OXYGEN	>=5.0	8.8
AMMONIA	10	7.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	308021A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/2/93	TIME:	7:45 AM

WELL #1 & #5 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON. TOTAL	0.3	NOT PERFORMED
MANGANESE. TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30802EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/2/93	TIME:	7:45 AM

WELL #1 & #5 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30804IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/4/93	TIME:	8:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	. 30804EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/4/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	308061A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/6/93	TIME:	9:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.264
DISSOLVED OXYGEN	>=5.0	2.5
AMMONIA	10	7.62

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30806EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/6/93	TIME:	9:05 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.267
DISSOLVED OXYGEN	>=5.0	8.6
AMMONIA	10	7.50

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MGL EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	308091A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/9/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30809EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/9/93	TIME:	7:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30811IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/11/93	TIME:	7:55 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30811EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/11/93	TIME:	7:50 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.2
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30816IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/16/93	TIME:	8:20 AM

Cell # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.187
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	5.12

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30816EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/16/93	TIME:	8:15 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.189
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	5.05

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30818IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/18/93	TIME:	7:45 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30818EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/18/93	TIME:	7:40 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.4
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	NOI PERFORMED
MANGANESE, TOTAL	0.3	NOI PERFORMED
DISSOLVED OXYGEN	>=5.0	NOI PERFORMED
AMMONIA	10	NOI PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

'NORGANICS ANALYSIS REPORT

SAMPLE ID:	508201A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/20/93	TIME:	7:50 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30820EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/20/93	TIME:	7:45 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	308231A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/23/93	TIME:	7:58 AM

Well # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.3
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.184
DISSOLVED OXYGEN	>=5.0	4.00
AMMONIA	10	4.62

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30823EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/23/93	TIME:	7:50 AM

Well # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.3
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.189
DISSOLVED OXYGEN	>=5.0	8.1
AMMONIA	10	4.88

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30827IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/27/93	TIME:	11:20 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30827EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/27/93	TIME:	11:15 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30931IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	8/31/93	TIME:	8:00 AM

WELLS #1, & #4 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.237
DISSOLVED OXYGEN	>=5.0	3
AMMONIA	10	6.5

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30831EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	8/31/93	TIME:	7:50 AM

WELL #1 & #4 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.240
DISSOLVED OXYGEN	>=5.0	8.4
AMMONIA	10	6.75

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	309031A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/3/93	TIME:	8:05 AM

WELLS #1 & #4 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON. TOTAL	0.3	NOT PERFORMED
MANGANESE. TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30903EA	SAMPLE:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/3/93	TIME:	8:00 AM

WELLS #1 & #4 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	7.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	309081A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/8/93	TIME:	10:30 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30908EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/8/93	TIME:	10:25 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	809101A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/10/93	TIME:	2:35 PM

WELL #1 WAS DOWN. OTHERS WERE UP AT 2:10 PM.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.0
ORP (mV)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30910EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/10/93	TIME:	2:30 PM

WELL #1 WAS DOWN. OTHERS UP AT 2:10 PM.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	6.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30915IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/15/93	TIME:	8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.177
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	1.75

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30915EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/15/93	TIME:	8:45 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.177
DISSOLVED OXYGEN	>= 5.0	NOT PERFORMED
AMMONIA	10	1.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	80916 IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/16/93	TIME:	8:05 AM

Well # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30916EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/16/93	TIME:	11:15 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	7.4
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	309171A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/17/93	TIME:	7:55 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>= 5.0	3
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30917EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/17/93	TIME:	7:50 AM

Well # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	7.8
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	309201A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/20/93	TIME:	8:00 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	NOI PERFORMED
MANGANESE, TOTAL	0.3	NOI PERFORMED
DISSOLVED OXYGEN	>=5.0	4
AMMONIA	10	NOI PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30920EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/20/93	TIME:	7:55 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.5
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	NOI PERFORMED
MANGANESE, TOTAL	0.3	NOI PERFORMED
DISSOLVED OXYGEN	>=5.0	6.1
AMMONIA	10	NOI PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30921 IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/21/93	TIME:	1:30 PM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.2
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	NOI PERFORMED
MANGANESE, TOTAL	0.3	NOI PERFORMED
DISSOLVED OXYGEN	>=5.0	3.6
AMMONIA	10	NOI PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30921EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/21/93	TIME:	1:25 PM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.2
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>= 5.0	8.6
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30922IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/22/93	TIME:	7:50 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)*	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30922EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/22/93	TIME:	7:45 AM

WELL #1 DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30923IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/23/93	TIME:	9:30 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30923EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/23/93	TIME:	9:25 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	309241A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/24/93	TIME:	9:45 AM

Well #1 was low.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.188
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	4.88

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30924EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/24/93	TIME:	9:40 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.1
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.192
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	5.00

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30927IA	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/27/93	TIME:	8:40 AM

Well # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30927EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/27/93	TIME:	8:35 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	809281A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/28/93	TIME:	7:50 AM

Well # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	≥ 5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30928EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/28/93	TIME:	7:45 AM

WELL #1 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.2
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	NOI PERFORMED
MANGANESE, TOTAL	0.3	NOI PERFORMED
DISSOLVED OXYGEN	>=5.0	NOI PERFORMED
AMMONIA	10	NOI PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	809291A	SAMPLER:	LK
LOCATION:	INFLUENT-RAP	ANALYST:	LK
DATE:	9/29/98	TIME:	7:45 AM

Well # 1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	6.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30929EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/29/93	TIME:	7:40 AM

well #1 was down

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.2
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
 DEPARTMENT OF PUBLIC WORKS
 GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	809801A	SAMPLER:	LK
LOCATION:	INFLUENT-P&P	ANALYST:	LK
DATE:	8/30/98	TIME:	8:10 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mvt)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/86 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30930EA	SAMPLER:	LK
LOCATION:	EFFLUENT-RAP	ANALYST:	LK
DATE:	9/30/93	TIME:	8:05 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	7.3
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30701W1	SAMPLER:	PM/MA
LOCATION:	WELL 1	ANALYST:	PM
DATE:	7/1/93	TIME:	8:00-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.15
MANGANESE, TOTAL	0.3	0.559
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	18.625

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30715W1	SAMPLER:	MA & JB
LOCATION:	WELL 1	ANALYST:	LK
DATE:	7/15/93	TIME:	8:25-8:45 AM

WELL #4 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>= 5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30722W1	SAMPLER:	MA & JB
LOCATION:	WE11 1	ANALYST:	LK
DATE:	7/22/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.14
MANGANESE, TOTAL	0.3	0.562
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	19.5

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30805W1	SAMPLER:	MA & JB
LOCATION:	WELL 1	ANALYST:	LK
DATE:	8/5/93	TIME:	9:05-9:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.12
MANGANESE, TOTAL	0.3	0.548
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	18.75

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30701W2	SAMPLER:	PM/MA
LOCATION:	WELL 2	ANALYST:	PM
DATE:	7/1/93	TIME:	8:00-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.303
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	16

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30715W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	7/15/93	TIME:	8:25-8:45 AM

WELL #4 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30729W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	7/29/93	TIME:	10:00-10:20 AM

WELL #1, & #5 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30805W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	8/5/93	TIME:	9:05-9:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.296
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	16.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30812W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	8/12/93	TIME:	8:25-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30819W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	8/19/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.300
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	16.5

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30826W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	8/26/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30902W2	SAMPLED:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	9/2/93	TIME:	8:30-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.300
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	16.12

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30909W2	SAMPLER:	MA & BB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	9/9/93	TIME:	9:00-9:15 AM

WELLS #1 & #9 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	NOI PERFORMED
MANGANESE, TOTAL	0.3	NOI PERFORMED
DISSOLVED OXYGEN	>=5.0	NOI PERFORMED
AMMONIA	10	NOI PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30916W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	9/16/93	TIME:	8:10-8:35 AM

Well #1 was down.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.5
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.301
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	16.38

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30923W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	9/23/93	TIME:	8:30-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.6
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MGL EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30930W2	SAMPLER:	MA & JB
LOCATION:	WELL 2	ANALYST:	LK
DATE:	9/30/93	TIME:	8:10 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.4
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.300
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	16.1

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30701W3	SAMPLER:	PM/MA
LOCATION:	WELL 3	ANALYST:	PM
DATE:	7/1/93	TIME:	8:00-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.249
DISSOLVED OXYGEN	>=5.0	NOI PERFORMED
AMMONIA	10	0.47

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30715W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	7/15/93	TIME:	8:25-8:45 AM

WELL #4 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30722W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	7/22/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.00
MANGANESE, TOTAL	0.3	0.246
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.45

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30729W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	7/29/93	TIME:	10:00-10:20 AM

WELL #1, & #5 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30805W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	8/5/93	TIME:	9:05-9:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.246
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.45

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30812W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	8/12/93	TIME:	8:25-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30819W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	8/19/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.249
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.45

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30826W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	8/26/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30902W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	9/2/93	TIME:	8:30-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.247
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.45

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/16/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30916W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	9/16/93	TIME:	8:10-8:35 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.248
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.44

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30923W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	9/23/93	TIME:	8:30-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	5.0
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30930W3	SAMPLER:	MA & JB
LOCATION:	WELL 3	ANALYST:	LK
DATE:	9/30/93	TIME:	8:15 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.248
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.45

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30701W4	SAMPLER:	PM/MA
LOCATION:	WELL 4	ANALYST:	PM
DATE:	7/1/93	TIME:	8:00-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.01
MANGANESE, TOTAL	0.3	0.031
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.02

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30722W4	SAMPLER:	MA & JB
LOCATION:	WE11 4	ANALYST:	LK
DATE:	7/22/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.05
MANGANESE, TOTAL	0.3	0.027
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30729W4	SAMPLER:	MA & JB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	7/29/93	TIME:	10:00-10:20 AM

WELL #1, & #5 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30812W4	SAMPLER:	MA & JB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	8/12/93	TIME:	8:25-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOI PERFORMED
IRON, TOTAL	0.3	NOI PERFORMED
MANGANESE, TOTAL	0.3	NOI PERFORMED
DISSOLVED OXYGEN	>=5.0	NOI PERFORMED
AMMONIA	10	NOI PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30819W4	SAMPLER:	MA & JB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	8/19/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.031
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30826W4	SAMPLER:	MA & JB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	8/26/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30909W4	SAMPLER:	MA & BB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	9/9/93	TIME:	9:00-9:15 AM

WELLS #1 & #9 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30916W4	SAMPLER:	MA & JB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	9/16/93	TIME:	8:10-8:35 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.027
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30923W4	SAMPLER:	MA & JB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	9/23/93	TIME:	8:30-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>= 5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30930W4	SAMPLER:	MA & JB
LOCATION:	WELL 4	ANALYST:	LK
DATE:	9/30/93	TIME:	8:20 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.02
MANGANESE, TOTAL	0.3	0.030
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.03

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30701W5	SAMPLER:	PM/MA
LOCATION:	WELL 5	ANALYST:	PM
DATE:	7/1/93	TIME:	8:00-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.153
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.16

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30715W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	7/15/93	TIME:	8:25-8:45 AM

WELL #4 WAS DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30722W5	SAMPLER:	MA & JB
LOCATION:	WE11 5	ANALYST:	LK
DATE:	7/22/93	TIME:	8:05-8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.09
MANGANESE, TOTAL	0.3	0.147
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.17

- * REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
- ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
- *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30805W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	8/5/93	TIME:	9:05-9:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.163
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.19

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30812W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	8/12/93	TIME:	8:25-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30819W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	8/19/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.158
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.18

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30826W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	8/26/93	TIME:	8:30-9:00 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30902W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	9/2/93	TIME:	8:30-8:45 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.153
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.18

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30909W5	SAMPLER:	MA & BB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	9/9/93	TIME:	9:00-9:15 AM

WELLS #1 & #3 WERE DOWN.

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30916W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	9/16/93	TIME:	8:10-8:35 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.8
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.03
MANGANESE, TOTAL	0.3	0.162
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.17

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30923W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	9/23/93	TIME:	8:30-8:50 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	6.5 - 8.5	4.9
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	NOT PERFORMED
MANGANESE, TOTAL	0.3	NOT PERFORMED
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	NOT PERFORMED

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.
 ** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.
 *** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
GROUNDWATER TREATMENT FACILITY

INORGANICS ANALYSIS REPORT

SAMPLE ID:	30930W5	SAMPLER:	MA & JB
LOCATION:	WELL 5	ANALYST:	LK
DATE:	9/30/93	TIME:	8:30 AM

CHEMICAL CONSTITUENT	ALLOWABLE EFFLUENT CONCENTRATION* (mg/l)**	MEASURED CONCENTRATION*** (mg/l)
pH (units)	8.5 - 8.5	4.7
ORP (mv)	NO REQUIREMENT	NOT PERFORMED
IRON, TOTAL	0.3	0.04
MANGANESE, TOTAL	0.3	0.164
DISSOLVED OXYGEN	>=5.0	NOT PERFORMED
AMMONIA	10	0.17

* REGULATORY EFFLUENT DISCHARGE STANDARDS AS SPECIFIED IN THE CONSENT DECREE AND AS MODIFIED BY 11/10/88 LETTER TO THE TOWN.

** ALL CONCENTRATIONS EXPRESSED IN MG/L EXCEPT pH AND ORP.

*** HIGHLIGHTED COMPOUNDS IN EXCESS OF REQUIRED EFFLUENT CONCENTRATIONS.

APPENDIX E

SPDES Reports

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

LAB NO. C932939/1

07/28/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 07/14/93 RECEIVED: 07/14/93

SAMPLE: Wastewater sample, Influent

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	6.2
Chloroethane	ug/L	2.2
Methylene Chloride	ug/L	2.7
1,1 Dichloroethene	ug/L	<1.
1,2 Dichloroethene	ug/L	48
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	11
111 Trichloroethane	ug/L	1.2
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	4.6
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	67
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	3.9
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR 

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

LAB NO. C932939/2

07/28/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 07/14/93 RECEIVED: 07/14/93

SAMPLE: Wastewater sample, Effluent

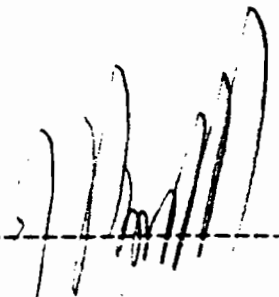
ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	<1.
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	<1.
1,1 Dichloroethene	ug/L	ND*
1,2 Dichloroethene	ug/L	<1.
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	<1.
111 Trichloroethane	ug/L	<1.
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	<1.
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	<1.
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	<1.
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o-p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

cc:

REMARKS: • Not detected at the MDL of 0.07 ug/L.

DIRECTOR _____


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

LAB NO. C932939/3

07/28/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:07/14/93 RECEIVED:07/14/93

SAMPLE: Wastewater sample, Air Stripper Effluent

ANALYTICAL PARAMETERS

Barium as Ba	mg/L	0.10
Cadmium as Cd	mg/L	<0.001
Chloride as Cl	mg/L	130
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	<0.02
Cyanide as CN	mg/L	<0.02
Iron as Fe	mg/L	0.07
Lead as Pb	mg/L	<0.005
Magnesium as Mg	mg/L	10
Manganese as Mn	mg/L	0.28
Mercury as Hg	mg/L	<0.001
Silver as Ag	mg/L	<0.01
Zinc as Zn	mg/L	<0.02
Tot Dissolved Solids	mg/L	290
Nitrate as N	mg/L	0.7
Sulfate as SO4	mg/L	20
Phenols as Phenol	mg/L	<0.001

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



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

LAB NO. C933507/1

08/31/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

RECEIVED
SEP 03 1993

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:08/16/93 RECEIVED:08/16/93

SAMPLE: Wastewater sample, Influent

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	4.7
Chloroethane	ug/L	1.6
Methylene Chloride	ug/L	3.0
1,1 Dichloroethene	ug/L	<1.
1,2 Dichloroethene	ug/L	51
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	9.7
111 Trichloroethane	ug/L	2.7
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	18
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	170
Chlorobenzene	ug/L	1.1
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	4.8
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	5.8

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C933507/2

08/31/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:08/16/93 RECEIVED:08/16/93

SAMPLE: Wastewater sample, Effluent

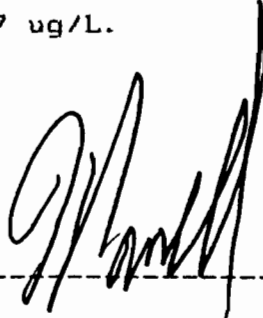
ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	<1.
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	<1.
1,1 Dichloroethene	ug/L	ND*
1,2 Dichloroethene	ug/L	<1.
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	<1.
111 Trichloroethane	ug/L	<1.
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	<1.
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	<1.
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	<1.
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

CC:

REMARKS: • Not detected at the MDL of 0.07 ug/L.

DIRECTOR _____


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

LAB NO. C933507/3

08/31/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Ray Wegener

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:08/16/93 RECEIVED:08/16/93

SAMPLE: Wastewater sample, Air Stripper Effluent

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Barium as Ba	mg/L	0.10
Cadmium as Cd	mg/L	<0.001
Chloride as Cl	mg/L	94
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	<0.02
Cyanide as CN	mg/L	<0.02
Iron as Fe	mg/L	0.15
Lead as Pb	mg/L	<0.005
Magnesium as Mg	mg/L	7.6
Manganese as Mn	mg/L	0.17
Mercury as Hg	mg/L	<0.001
Silver as Ag	mg/L	<0.05
Zinc as Zn	mg/L	0.04
Tot Dissolved Solids	mg/L	230
Nitrate as N	mg/L	1.0
Sulfate as SO4	mg/L	15
Phenols as Phenol	mg/L	<0.001

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C934005/1

10/04/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Lauren Ku

Lockwood
RECEIVED
OCT 08 1993

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:09/15/93 RECEIVED:09/15/93

SAMPLE: Wastewater sample, Air Stripper Influent

ANALYTICAL PARAMETERS

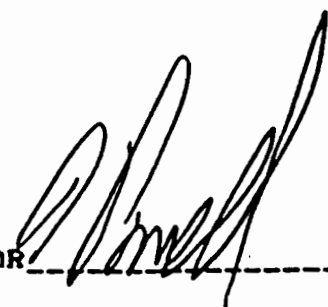
ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	5.1
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	<1.
1,1 Dichloroethene	ug/L	<1.
1,2 Dichloroethene	ug/L	59
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	9.0
111 Trichloroethane	ug/L	2.2
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	17
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	170
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	15
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

CC:

REMARKS:

DIRECTOR

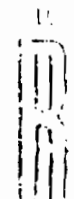


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C934005/2

10/04/93

Lockwood, Kessler & Bartlett
 1 Aerial Way
 Syosset, NY 11797
 ATTN: Lauren Ku



OCT 08 1993

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
 COLLECTED BY: Client DATE COL'D:09/15/93 RECEIVED:09/15/93

SAMPLE: Wastewater sample, Air Stripper Effluent

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	1.1
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	<1.
1,1 Dichloroethene	ug/L	0.19
1,2 Dichloroethene	ug/L	14
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	1.7
111 Trichloroethane	ug/L	<1.
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	3.7
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	49
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	1.3
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

CC:

REMARKS:



DIRECTOR

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

LAB NO. C934005/3

10/04/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Lauren Ku

OCT 08 1993

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:09/15/93 RECEIVED:09/15/93

SAMPLE: Wastewater sample, Air Stripper Effluent

ANALYTICAL PARAMETERS

Barium as Ba	mg/L	0.10
Cadmium as Cd	mg/L	<0.001
Chloride as Cl	mg/L	71
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	0.06
Cyanide as CN	mg/L	<0.02
Iron as Fe	mg/L	0.06
Lead as Pb	mg/L	0.016
Magnesium as Mg	mg/L	7.0
Manganese as Mn	mg/L	0.16
Mercury as Hg	mg/L	0.0012
Silver as Ag	mg/L	<0.01
Zinc as Zn	mg/L	0.03
Tot Dissolved Solids	mg/L	140
Nitrate as N	mg/L	1.4
Sulfate as SO ₄	mg/L	11
Phenols as Phenol	mg/L	<0.001

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C934170/1

10/11/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Laureen Ku

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D: 09/24/93 RECEIVED: 09/24/93

SAMPLE: Wastewater sample, Air Stripper Influent

ANALYTICAL PARAMETERS

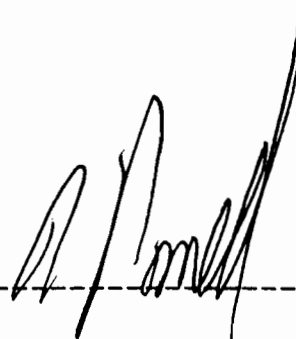
Vinyl Chloride	ug/L	4.3
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	2.1
1,1 Dichloroethene	ug/L	<1.
1,2 Dichloroethene	ug/L	47
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	8.7
111 Trichloroethane	ug/L	2.4
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	13
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	150
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	4.2
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

cc: Ralph Cuomo

REMARKS:

DIRECTOR



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

LAB NO. C934170/3

10/11/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Lauren Ku

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:09/24/93 RECEIVED:09/24/93

SAMPLE: Wastewater sample, Air Stripper Effluent


ANALYTICAL PARAMETERS

Barium as Ba	mg/L	0.09
Cadmium as Cd	mg/L	<0.001
Chloride as Cl	mg/L	95
Chromium as Cr	mg/L	<0.02
Copper as Cu	mg/L	0.02
Cyanide as CN	mg/L	<0.02
Iron as Fe	mg/L	0.13
Lead as Pb	mg/L	<0.005
Magnesium as Mg	mg/L	8.9
Manganese as Mn	mg/L	0.16
Mercury as Hg	mg/L	<0.001
Silver as Ag	mg/L	<0.01
Zinc as Zn	mg/L	<0.02
Tot Dissolved Solids	mg/L	230
Nitrate as N	mg/L	0.9
Sulfate as SO4	mg/L	15
Phenols as Phenol	mg/L	<0.001

ANALYTICAL PARAMETERS

cc:Ralph Cuomo

REMARKS:

DIRECTOR 

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

LAB NO. C934170/2

10/11/93

Lockwood, Kessler & Bartlett
1 Aerial Way
Syosset, NY 11797

ATTN: Lauren Ku

SOURCE OF SAMPLE: Town of Oyster Bay-Solid Waste Disposal
COLLECTED BY: Client DATE COL'D:09/24/93 RECEIVED:09/24/93

SAMPLE: Wastewater sample, Air Stripper Effluent

ANALYTICAL PARAMETERS

Vinyl Chloride	ug/L	<1.
Chloroethane	ug/L	<1.
Methylene Chloride	ug/L	<1.
1,1 Dichloroethene	ug/L	ND*
1,2 Dichloroethene	ug/L	<1.
Chloroform	ug/L	<1.
1,2 Dichloroethane	ug/L	<1.
1,1 Dichloroethane	ug/L	<1.
111 Trichloroethane	ug/L	<1.
Carbon Tetrachloride	ug/L	<1.
Bromodichloromethane	ug/L	<1.
1,2 Dichloropropane	ug/L	<1.
Trichloroethylene	ug/L	<1.
Chlorodibromomethane	ug/L	<1.
Bromoform	ug/L	<2.
Tetrachloroethene	ug/L	<1.
Chlorobenzene	ug/L	<1.
1,2 Dichlorobenzene	ug/L	<2.
1,3 Dichlorobenzene	ug/L	<2.
1,4 Dichlorobenzene	ug/L	<2.
Benzene	ug/L	<1.
Toluene	ug/L	<2.
Ethyl Benzene	ug/L	<1.
m Xylene	ug/L	<2.
o+p Xylene	ug/L	<4.

ANALYTICAL PARAMETERS

cc:Ralph Cuomo

REMARKS: * Not detected at MDL of 0.07 ug/L.

DIRECTOR _____


APPENDIX F

**"Air Stripper Stack Emissions Test Program"
Second Year of Operation
1993 - 1994 Second Quarterly Report
February 1994**

**OLD BETHPAGE LANDFILL
OYSTER BAY SOLID WASTE DISPOSAL COMPLEX
AIR STRIPPER STACK EMISSIONS TEST PROGRAM**

Second Year of Operation

1993 - 1994 Second Quarterly Report

Prepared for:

Lockwood Kessler & Bartlett, Inc.
One Aerial Way
Syosset, New York 11791

Prepared by:

RTP Environmental Associates, Inc.
400 Post Avenue
Westbury, New York 11590

FEBRUARY 1994

**SECOND YEAR OF OPERATION
SECOND QUARTERLY REPORT
OBSWDC AIR STRIPPER TEST PROGRAM**

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**SECOND YEAR OF OPERATION
SECOND QUARTERLY REPORT
OBSWDC AIR STRIPPER TEST PROGRAM**

LIST OF TABLES

<u>No.</u>	<u>Description</u>
1	Program Target Compound List and NYSDEC Ambient Guidelines
2	Summary of Air Stripper Operational Data
3	Air Stripper VOST Results - (Test P)
4	Air Stripper VOST Results - (Test Q)
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7	Comparison of Air Stripper Emission Concentrations Using Two Independent Methods
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9	Ambient Air VOST Test Results
10	Comparison of Applicable Discharge Requirements for Air Stripper Treatment System with Stack Test Results
11	Model Validation Results for Tetrachloroethene
12	Maximum Annual Impacts Based on Corrected Air Stripper Emissions Test Results

FIGURE NO 1: SITE MAP

**SECOND YEAR OF OPERATION
SECOND QUARTERLY REPORT
OBSWDC AIR STRIPPER TEST PROGRAM**

1.0 INTRODUCTION

The Town of Oyster Bay entered into a Consent Decree (83CIV5357) with the New York State Department of Law (DOL) regarding remediation efforts at the Oyster Bay Solid Waste Disposal Complex (OBSWDC). The Decree requires, among other items, quarterly stack emissions testing of the air stripper. The air stripper was constructed to remediate an offsite groundwater plume.

This report has been prepared by RTP Environmental Associates, Inc. (RTP), the subcontractor for conducting source testing of the air stripper emissions and evaluating ambient impacts. This report presents the second year second quarterly test results. It is one of a series of quarterly reports that provide data on the individual air emission tests being performed by RTP. This report provides a brief summary of sampling procedures and analytical methods; a presentation of data collected during the test; an analysis of the data including comparisons to the Consent Decree emission limits used in facility design; and an air quality modeling analysis.

The report contains five additional sections that address sampling and analysis procedures, discussion of results, comparison of emission rates to Consent Decree limitations, air quality modeling and conclusions and recommendations. An annual summary report will be prepared at the conclusion of the second year of quarterly sampling. The annual report will include a direct comparison of observed ambient concentrations and predicted impacts with applicable and relevant guidelines and regulations.

2.0 SAMPLING AND ANALYSIS PROCEDURES

Prior to initiating the stack testing, RTP developed and submitted a monitoring and analysis protocol (RTP, 1992) for the quarterly tests to the New York State Department of Environmental Conservation (NYSDEC) for approval. The specific sampling and analysis procedures are fully defined in a series of documents including the project scope of work and subsequent correspondence with the NYSDEC and Lockwood, Kessler & Bartlett, Inc. (LKB). NYSDEC gave formal protocol approval on May 14, 1992

(NYSDEC, 1992a). A subsequent modification to the protocol was suggested to and approved by the NYSDEC (1992b) to reduce the run time and increase the flow volume for a Volatile Organic Sampling Train (VOST) run.

An additional protocol modification was requested by RTP (RTP, 1993) and approved by the NYSDEC (NYSDEC, 1993) to change from the originally proposed mass balance approach in determining air stripper ammonia emissions to a stack sampling method using sorbent trap media. The approved protocol as used during this effort is detailed below:

- o Monitor air stripper operations continuously. Monitor process parameters including all five individual recovery well flow rates in gallons per minute (GPM), system flow rate (well total/pump station tank influent - GPM), air stripper influent flow (GPM), pressure filter flow (final holding tank effluent flow - GPM), air stripper blower pressure (inches H₂O), air stripper blower flow rate in cubic feet per minute (CFM) and the status of air stripper operations. Record the above mentioned process parameters every 10 minutes during the test program. Record air stripper groundwater inlet totalizer readings at the beginning and end of each VOST run to calculate the total system flow (gallons of groundwater processed) during each VOST run.
- o Determine air stripper exhaust concentrations of targeted Volatile Organic Compounds (VOCs) presented in Table 1 by utilizing the VOST procedure as outlined in EPA SW846 Method 0030. Perform three (3) VOST tests consisting of four (4) 20-minute VOST runs (total of twelve (12) 20-minute VOST runs). Utilize VOST train flow rate of 0.2 liters per minute (Lpm) and a probe temperature of $\geq 265^{\circ}\text{F}$. Analyze all VOST samples for targeted VOCs (Table 1) by Desorb Purge Trap Desorb Gas Chromatography Mass Spectrometry (DPTD GC/MS) in accordance with EPA SW846 Method 5040/8240.
- o Determine air stripper exhaust ammonia mass emission rate by performing ammonia sampling at the exhaust stack utilizing modified NIOSH P&CAM Method 205 (silica gel tubes impregnated with 0.1N sulfuric acid, analyzed by colorimetric methodology). Collect one pair of silica gel tubes (1 Test) per four VOST runs (1 Test).

- o Determine the air stripper volumetric flow rate in accordance with EPA Methods 1 and 2 before and after each VOST test (every four (4) VOST runs). Flow rate data is used to determine air stripper exhaust VOC mass emission rates and ammonia concentrations.

The analytical laboratories selected for this project were Research Triangle Laboratories (RTL), and Environmental Health Laboratories. RTL provided the required analytical gas chromatograph-mass spectrographic services to identify and quantify all substances listed on the Target Compound List (TCL) except ammonia. The TCL was based on the Consent Decree and is provided in Table 1. Environmental Health Laboratories provided analyses of the stack test samples for ammonia.

All sampling equipment was calibrated before and after the quarterly field effort. Equipment pre and post calibrations are presented in Appendix A.

3.0 DISCUSSION OF RESULTS

The following section presents a discussion of results for the second year, second quarterly stack test at the OBSWDC air stripper performed on September 24, 1993. This includes the results of quarterly measured monitoring parameters (process operations and VOC and ammonia emissions) detailed in the test protocol as outlined in Section 2.0 and the concurrent ambient VOST data. A comparison of the stack test results to Consent Decree stack discharge limits will be presented in Section 4.0. An air quality impact analysis based on stack and ambient air VOST test data is presented in Section 5.0. Section 6.0 provides a discussion of conclusions and recommendations. In all, the testing was within the general parameters and conditions outlined in the test protocol and the results, as discussed below, are considered valid for this quarter.

3.1 Air Stripper Operational Data

The facility operations were monitored on a continuous basis during the performance of the stack test. Site personnel kept detailed records of well flows, air stripper flow, air blower flow and blower pressure. Table 2 summarizes the operational data for the groundwater treatment facility during the air stripper stack test. Operations data during each stack test performed by RTP are provided in the table. Well 1 was non-operational, however, all other major unit processes were operating normally during the entire

period of the test. The process data is presented in Appendix B. Air stripper exhaust flow rates measured at the stack in accordance with EPA Methods 1 and 2 are presented in Section 3.2 along with the target compound concentration results.

The observed second year, second quarter operations data and VOC and ammonia results are corrected in Section 5.4 of this report, to estimate "expected" air stripper exhaust stack emissions and their impacts during normal operations (all 5 wells operating). These corrected results will be combined with other second year quarterly test results and modeled (tested during normal operating conditions) for comparison to NYSDEC ambient Annual Guideline Concentration (AGC) values in the annual report.

3.2 Air Stripper VOST Results

Tables 3 through 5 provide the nanograms per liter (ng/l) air concentrations for each TCL constituent detected during the twelve (12) VOST runs performed by RTP at the air stripper exhaust stack. A test is comprised of four (4) individual 20-minute VOST runs. The test averages (P, Q and R) are provided in Table 6 along with the average for all test runs. Several compounds were identified in the exhaust gases with the most prevalent being tetrachloroethene. There was no condensate in any of the test samples primarily because of the low (4 liter) total sample volume required for each test run. Field and trip blank samples were collected. There is no indication that contamination was present in the blank sample tubes. This is described in the RTL report presented in Appendix C and in Table 6. Field data sheets are presented in Appendix D.

In-stack measurements at the facility were made of pressure differential, temperature and dew point. This data was used to calculate the air stripper volumetric flow rate for each VOST test and to correct each individual VOST run sample volume to air stripper exhaust stack conditions. VOST test volumetric flow rates and corrected VOST run sample volumes are presented in Tables 3 through 6. EPA Method 2 field data sheets are presented in Appendix D.

Air stripper influent and effluent water samples were collected and analyzed for target VOCs. Table 7 provides a direct comparison between stack VOC concentrations (via mass balance) as determined by water analyses (water samples collected during VOST Run 63) and by VOST stack test (Run 63 VOC

results). In general, the water analyses suggested lower concentrations of VOCs. Influent and effluent water VOC laboratory results are presented in Appendix E.

3.3 Air Stripper Ammonia Emission Results

Prior to this effort, RTP has evaluated the air stripper ammonia release rate by collecting and analyzing influent and effluent air stripper water samples and applying mass balance methodology. This approach had provided unsatisfactory results (negative mass emission rates). RTP has in the past supplemented this means of estimating the air stripper's ammonia emissions by measuring the ammonia concentrations in the air stripper exhaust according to NIOSH P&CAM sampling Method S347 (Adsorption onto sulfuric acid-treated silica gel tubes) and modified NIOSH P&CAM analytical Method 205 (colorimetric). This supplemental method has been a reliable means of determining the air stripper exhaust stack ammonia concentrations at levels below the assigned AGC for ammonia (360 ug/m^3). As mentioned in Section 2.0, RTP has requested a modification to the sampling protocol allowing the continuance of the supplemental method (using sorbent traps) and omission of further ammonia mass balance activities. The NYSDEC has approved this change which is effective as of this second year, second quarter air stripper effort.

RTP measured ammonia emissions at the air stripper exhaust stack during the second year, second quarterly sampling event in accordance with modified NIOSH P&CAM Method 205 (silica gel tubes impregnated with 0.1N sulfuric acid, analyzed by colorimetric methodology). The silica gel tubes were analyzed by Environmental Health Laboratories to a minimum detection level of 5 micrograms. The ammonia stack tests are presented in Table 8. As shown, the test results were as follows: $< 211 \text{ ug/m}^3$ (Test P), $< 196 \text{ ug/m}^3$ (Test Q) and $< 221 \text{ ug/m}^3$ (Test R). RTP will present measured stack ammonia emissions data for comparison with discharge requirements and ambient air guideline values in Section 4.0. Field data sheets are presented in Appendix D and rotameter calibrations are presented in Appendix A. Ammonia stack test analytical results from Environmental Health Laboratories are presented in Appendix F.

3.4 Ambient Air VOST Results

Ambient VOST samples were collected at three locations during the air stripper tower stack test. Sample A2-2U was collected upwind of the tower to provide background VOC concentrations in the air

approaching or being drawn into the tower. The upwind sample location was about 90 feet west northwest of the air stripper tower and at the base elevation of the tower. Sample A2-2D.1 and A2-2D.2 were collected downwind of the tower to determine combined VOC impacts from background sources and the operation of the tower. Downwind site A2-2D.1 was about 150 feet east southeast of the air stripper tower with an elevation of about 10 feet below the air stripper tower base, located near the entrance gate to the RAP building. The second site, A2-2D.2, was 250 feet south of the RAP building.

The analytical TCL results for the ambient VOST samples are presented in Table 9. The same nine (9) VOCs were detected at or above the lower quantitation limit (LQL) in each of the downwind ambient air samples (A2-2D.1 and A2-2D.2) and the upwind ambient air sample (A2-2U). Those VOCs are benzene, carbon tetrachloride, ethylbenzene, methylene chloride, tetrachloroethene, toluene, 1,1,1-trichloroethane, trichloroethene and xylenes.

VOCs detected at the downwind and upwind sampling locations were also detected in the air stripper exhaust stack (see Table 6) with the exception of three VOCs: carbon tetrachloride, ethylbenzene and toluene. In addition, 1,1-dichloroethane and cis-1,2-dichloroethene were detected in the stack exhaust but were not detected in the ambient air. An ambient air field blank (A2-2FB) and trip blank (A2-2TB) were collected and both were free of any quantifiable contamination. The respective upwind and two downwind air samples (D.1 and D.2) with total air volumes of 391, 382 and 408 liters did not contain sufficient moisture to have a collectable condensate sample. Rotameter calibrations are presented in Appendix A. Field data sheets are presented in Appendix D, and RTL ambient VOST results are presented in Appendix C.

4.0 COMPARISON OF EMISSION RATES TO CONSENT DECREE LIMITATIONS

The Consent Decree stipulates air stripper discharge concentration requirements which are provided in Table 10. A direct comparison of observed discharge concentrations to the limits tabulated in the Consent Decree, which is the first step in the analysis, indicates that potentially one (1) compound (tetrachloroethene) exceeds the specified limit. Several other targeted VOCs (bromodichloromethane, bromoform, dibromochloromethane, 1,3-dichlorobenzene, 1,2-dichloroethane, freon 13 and/or vinyl chloride) may have exceeded, but were not identified as exceeding Consent Decree discharge requirements since their individually assigned discharge limit (ranging from 0.03 to 20 ug/m³) was lower

than the combined sampling and analytical lower quantitation limit (41.9 ug/m³). This limitation results from the combination of the wide range of concentrations observed in the tower outlet and the limited range of the analytical methods.

This was the second quarterly stack test performed during the second year of testing at the air stripper. Future and past stack test data will be combined to evaluate facility operations on an annual basis. In Section 5.0, the impacts of VOC and ammonia emissions as observed during the second year, second quarterly tests are analyzed using a dispersion model. Modeled emission impacts are then compared to former and current AGCs (NYSDEC 1991 a,b).

5.0 AIR QUALITY MODELING

An air quality modeling analysis is performed to validate the dispersion model and to determine if the annual air quality impacts of the air stripper operation exceeded ambient air quality guideline concentrations. The air quality impact analysis uses the approved United States Environmental Protection Agency (USEPA) ISCST2 model (EPA, 1993) and is based on stack and ambient air VOST test data. The air stripper emission rates and associated source parameters, as monitored in the second year second quarterly stack test, were used in this modeling analysis. Meteorological data used in the analysis are presented in Appendix H and the model results are presented in Appendix I. Predicted model values were compared to observed ambient air VOST test data and will be compared to NYSDEC ambient air annual guidelines as provided in Air Guide-1 (NYSDEC, 1991a).

5.1 Modeling Methodology

The ISCST2 dispersion model is a restructured and reprogrammed version of the original ISCST model. This model provides the ability to simulate the dispersion of emissions from a wide range of air pollutant sources including elevated point sources. The basis of the model is the straight-line, steady-state Gaussian plume dispersion equation. It has the ability to take into account building downwash effects for different wind angles and incorporates local terrain information and hourly meteorological data. The user can select various time period averages including an annual average. Because of these features, the model has been selected for evaluating the air stripper tower air quality impacts on receptors surrounding the OBSWDC.

5.2 Model and Source Configuration

The ISCST2 model has a variety of run options that are useful in customizing the model for a specific application. Prior to running the model for predicting annual impacts, a validation effort was prepared based on the data recorded during the quarterly test program. General model options, source/receptor configurations and meteorological data were then input into the model to predict the maximum annual average impacts for off-property receptors associated with the air stripper tower.

The following regulatory default options are applied in the simulation:

- o stack-tip downwash,
- o buoyancy-induced dispersion,
- o calm wind speed processing routine,
- o upper bound concentration estimates for sources influenced by building downwash from a super-squat building,
- o regulatory default wind speed profile exponents and
- o regulatory default vertical potential temperature gradients.

The source parameters utilized in the model are based on the second year, second quarterly air stripper exhaust tests. The important parameters are air stripper base location and elevation, tower height, stack exit temperature, inner stack diameter of the exhaust section, exhaust volume flow rates and various VOC emission rates. Since building downwash is included, the building crosswind dimensions for various wind directions are also input into the model. The air stripper tower base elevation is 42.8 meters, the tower height is 16.7 meters, the stack exit diameter is 1.02 meters and other parameter values (stack exit temperature and velocity) vary with the tower's operation. In this second year, second quarterly effort, the monitored average exit temperature and velocity were 285°K and 7.24 m/s, respectively.

Receptors used in the modeling analysis covered a one (1) kilometer square area around the air stripper. A receptor grid with 100 meter spacing was used along with a separate series of property line receptors. The above surface height of each receptor was set at one (1) meter.

5.3 Model Validation

The objective of the model validation process is to verify that the model set-up and results compare favorably with available onsite ambient air sampling results. Both upwind and downwind ambient air concentrations along with the onsite meteorological data were collected during the second year, second quarterly test effort. These data were collected concurrent with the air stripper emissions tests described in Section 3.0.

Ambient volatile organic compounds were monitored at one upwind and two downwind sites surrounding the air stripper during the second quarter, second year stack tests. The ambient monitoring was performed over a six hour period concurrent with the stack tests. Laboratory results indicated that tetrachloroethene was the only VOC emitted from the air stripper that was detected in significant quantities at both downwind monitoring sites and at the effluent of the air stripper. Therefore, tetrachloroethene was used to validate the ISCST2 model results. A variety of options were chosen to try to validate the ISCST2 model to the observed measurements which were averaged over the six-hour sampling period. The following parameters were used in successive model runs to simulate field conditions: hourly meteorological data including wind direction, speed and atmospheric stability for two independent meteorological stations; building wake effects; stack tip downwash; detailed receptor grids; and downwind sampling results for two monitoring sites. Two of these modeling runs are discussed below and are included in Appendix I. The Site Map, Figure 1, shows the three sampling locations: 1U (upwind), 1D and 2D (downwind).

Only one set of meteorological data can be used for an ISCST2 model run. Model run 9321 used data collected from the meteorological station located on top of the RAP building. Model run 9322 used meteorological data collected at sampling location 1D.

The model estimated the normalized concentrations over the test period at all receptor grid points including the downwind sampling locations for a one gram per second emission rate. These concentration values were then multiplied by the measured tetrachloroethene emission rate of 0.0238 g/sec as measured during the stack tests.

The background tetrachloroethene concentration in the ambient air upwind of the air stripper was measured. The upwind sample was collected to the northwest of the air stripper tower under average northwesterly wind conditions. The measured upwind tetrachloroethene concentration was 0.742 micrograms per cubic meter. The tetrachloroethene results for the downwind sampling locations were adjusted for the measured upwind background concentration so that the resultant concentrations could then be compared directly to the tetrachloroethene concentrations resulting from air stripper emissions as predicted by the ISCST2 model.

5.4 Modeling Results

The modeling results for this quarter are presented in Table 11 for the two sets of meteorological data collected onsite during the stack tests. The observed versus predicted ratios are provided for model run 9321 which used meteorological data from the meteorology station located atop the RAP building and for model run 9322 which used meteorology obtained at sampling site 1D. Both ratios for predicted to observed tetrachloroethene concentrations show poor correlations. If there was reasonable correlation between the modeling and monitoring results, the concentration ratios indicated above could then be used to define the ambient impacts for the other targeted compounds. However, the correlations during this quarterly test do not warrant further extrapolation to other compounds. Observed to predicted ratios at 0.9 and above are preferred to confidently verify receptor concentrations and then for use in determining regulatory compliance.

A primary reason for the lack of model calibration data being experienced at the site is the high background concentrations of tetrachloroethene. Tetrachloroethene is released from the air stripper tower at sufficiently high emission rates to have a detectable impact at selected monitoring sites. Unfortunately, the background levels of tetrachloroethene are also in the same relative range of concentration, making it difficult to differentiate between the tetrachloroethene levels generated by the tower versus those occurring in the background. This has been somewhat of a problem since the program began. However, during this quarterly effort, the positioning of the monitoring sites and the maximum impact point during the test, combined with the high background levels, has made it impossible to validate the ISCST2 model predictions with confidence. Other compounds in the air stripper exhaust can also be used in validating the model, however, again background concentration of these compounds, monitoring site positioning and the position of the maximum impact point made validation impossible during this quarterly field effort.

Should the background levels continue to interfere with model validation, an alternative solution for model validation may need to be applied to assure model predictions are realistic. An alternative approach would be to release a tracer like sulfur hexafluoride from the tower and monitor ambient impacts for direct comparison to predicted impacts under specific meteorological conditions. Using a tracer such as sulfur hexafluoride is advantageous for expanding the range of meteorological conditions that can be used in model validation. Using a tracer would also be helpful in determining how well the model predicts air stripper tower impacts for wind directions from the south and southwest. These directions are important in defining dispersion under the influence of the landfill. Model predictions can thus be verified for receptors in the lee of the landfill and for other turbulent diffusion regimes affecting the dispersion rate of tower emissions.

A modeling analysis using annual meteorological data is not included in this report because the validation runs as discussed above did not have sufficient correlation to justify extrapolating the data to determine predicted annual concentrations. Table 12, however, provides the corrected mass emission rates for the second quarter, second year tests for use in the annual report. Corrected mass emission rates are derived by converting the air stripper exhaust stack VOC concentrations shown in Table 10 to grams per second values using the average observed air stripper exhaust flow rate of 12,400 actual cubic feet per minute (see Table 6). The grams per second emissions rate for each reported VOC is corrected to represent emissions during the operation of all five (5) groundwater collection wells. At the time of the second year second quarter test (9/24/93), only four (4) wells were in service (Wells 2,3,4 and 5). A mass emission rate multiplier for each reported individual VOC is based on dividing the total mass flow rate for all five (5) Wells by the total mass flow rate for Wells 2,3,4 and 5. September 23, 1993 (Wells 2,3,4 and 5) and August 5, 1993 (Well 1) Well water VOC analysis data (included in Appendix E) and September 24, 1994 well flow rate data were used for all mass flow rate calculations. Well 1 ground water flow was assumed at 200 gallons per minute.

The USEPA periodically upgrades and improves the preferred list of atmospheric diffusion models. The USEPA's ISCST2 model initially used for defining air stripper impacts was released in 1992. There were several error messages within the code which apparently had no impact on the calculations or predictive accuracy of the model. However, these were unsettling since there was a slim possibility that concentration calculations were in error. In order to rule out any fault with the software program, the

latest 1993 ISCST2 version was obtained and was run for this quarterly report. The results were identical for the 1992 and 1993 versions of the models.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The second year, second quarter air stripper test results indicate that the air stripper continues to operate according to design. Test results indicate that there is one compound, tetrachloroethene, that exceeds the specified discharge concentration limit based on the Consent Decree. Annual modeling of the observed emission rates was not performed because of several issues that were discussed.

Reviewing the data accumulated thus far indicates that the significance of the air stripper emissions in terms of the New York State Air Guide-1 (AG-1) compliance cannot be adequately determined using the current modeling and monitoring techniques. The complexities of the site require a more sophisticated approach to adequately evaluate actual airflow patterns and contaminant dispersion on the site and beyond the property boundaries. As an example, the RAP building adjacent to the air stripper tower generates substantial wake effects which may not be adequately addressed by the ISCST2 algorithms for predicting building downwash. This is evidenced by the results of the modeling efforts as compared to the measured emission rates and ambient air sampling results. In addition to the RAP building, the northwesterly winds prevalent in the winter months are significantly modified by the turbulence resulting from the old incinerator plant located directly northwest of the tower. The southwesterly winds that tend to occur in the summer months are impacted upwind of the tower by the steep landfill embankment southwest of the tower. The old incinerator also impacts the dispersion rates downwind of the tower for south and southeasterly winds. These unaccounted for obstacles could effect the predicted concentrations of the receptors to the north and east of the property.

Based on these conditions, additional data is required to reasonably predict impact concentrations and therefore, appropriate air stripper operating conditions. It is important to obtain this additional information since the contribution to certain targeted VOC concentrations at the property line by the air stripper, although they may at times be small relative to background concentrations from other sources in the area, could potentially determine compliance or exceedance of New York State Guidelines.

Variations in background concentrations of VOCs and recent increases in these values have been observed both upwind of the air stripper as well as at the monitoring locations. To date, the single upwind sample has been subtracted from downwind sample concentrations for each targeted compound. The upwind and downwind samples are collected during the same sampling interval, however, the source contributions to these levels needs to be more precisely defined to assure spatial distributions have been properly addressed.

Several sets of data are, therefore, necessary to validate an appropriate modeling and monitoring protocol for a complex site such as the OBSWDC.

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- NYSDEC, 1991b. Letter submitted to NYSDEC Regional Air Pollution Control Engineers, Bureau Directors and Section Chiefs from Mr. Tom Allen (Director, Division of Air Resources) stating the new 1.2 ug/m³ AGC for perchloroethylene (tetrachloroethene), November 22, 1991.
- NYSDEC, 1992a. Letter submitted to Mr. Karl J. Leupold (Commissioner of the Town of Oyster Bay) from Mr. Robert C. Knizek (NYSDEC) approving the March 1992 sampling protocol for the air stripper monitoring and assessment program, May 14, 1992.
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- NYSDEC, 1993. Letter submitted to Mr. Scott Mills (RTP) from Mr. Robert Waterfall (NYSDEC) approving ammonia sampling protocol changes, July 7, 1993.
- RTP, 1992. Sampling Protocol for the Air Stripper Monitoring and Assessment Program at the Old Bethpage Solid Waste Disposal Complex, RTP Environmental Associates, Inc., March 1992.
- RTP, 1993. Sampling Protocol Change (ammonia sampling) for the Air Stripper Monitoring and Assessment Program at the Old Bethpage Landfill in Nassau County (Site No. 1-30-001) submitted to Mr. Robert Waterfall (NYSDEC) from Mr. Scott Mills (RTP), June 21, 1993.

TABLE 1

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

**PROGRAM TARGET COMPOUND LIST
AND NYSDEC AMBIENT GUIDELINES**

VOC COMPOUND NAME	TOXICITY	CURRENT SGC (ug/m3)		CURRENT AGC (ug/m3)		FORMER AGC (ug/m3)	CONSENT DECREE LIMITS***
Benzene	H	30	(p)	0.12	(E,U)	100	100
Bromodichloromethane	H			0.02	(D)	0.03**	0.03
Bromoform	M	1,200	(t)	12	(T)	11.9**	16.7
Carbon Tetrachloride	H	1,300	(r)	0.07	(E,U)	100	100
Chlorobenzene	M	11,000	(p)	20	(E)	1,170	1,170
Chloroethane	L	630,000	(t)	63,000	(T)	52,000	52,000
Chloroform	M	980	(r)	23	(R)	167	167
Dibromochloromethane	M			0.1	(D)	0.03**	0.03
1,2-Dichlorobenzene (o)	M	30,000	(t)	200	(E)	1,000	1,000
1,3-Dichlorobenzene (m)	M	30,000	(a)	200	(A)	714**	0.03
1,4-Dichlorobenzene (p)	M**	110,000**		700**			1,500
1,1-Dichloroethane	L	190,000	(t)	500	(E)	9,524**	2,700
1,2-Dichloroethane	M	950	(r)	0.039	(E,U)	0.2	20
1,1-Dichloroethene	H	2,000	(t)	0.02	(E,U)	66.7	66.7
cis-1,2-Dichloroethene*	M	190,000	(a)	1,900	(A)	1,880**	2,630****
trans-1,2-Dichloroethene	M			360	(D)	360**	
1,2-Dichloropropane	M	83,000	(t)	0.15	(D)	833**	1,170
Ethylbenzene	M	100,000	(t)	1,000	(T)	1,450	1,450
Freon 13*	L	43,000	(a)	530	(A)	133,333**	0.03
Methylene Chloride	M	41,000	(t)	27	(D,U)	1,170	1,170
Tetrachloroethene	M	81,000	(t)	1.2*****	(D,U)	1,120	1,120
Toluene	L	89,000	(r)	2,000	(I)	7,500	7,500
1,1,1-Trichloroethane	L	450,000	(t)	1,000	(E)	38,000	38,000
Trichloroethene	M	33,000	(r)	0.45	(D,U)	900	900
Vinyl Chloride	H	1,300	(t)	0.02	(E,U)	0.4	0.4
Xylenes (Total)	M	100,000	(t)	300	(I)	1,450	1,450*****
OTHER COMPOUNDS							
Ammonia	L	4,000	(t)	360	(E)	360	360

FOOTNOTES:

SGC - Short-term guideline concentration (current as of June 1991).

AGC - Annual guideline concentration (current as of June 1991, former as of 1986, 9/89 Edition).

* Tentatively Identified Compound (TIC) using EPA SW846 Method 8240.

** Proposed Value.

*** As per Table 1 of the Final Consent Decree. Reported in micrograms per cubic meter (ug/m3).

**** Total for cis and trans isomers.

***** Tetrachloroethene AGC current as of November 22, 1991.

***** 1,450 total for ortho and para xylene and 1450 total for meta xylene.

Toxicity - H for high; M for moderate; and L for low as defined by NYSDEC.

(a) - SGC based on NYSDEC structure-activity analogy.

(p) - SGC derived from proposed ACGIH TLV-TWA (1990-1991).

(r) - SGC derived from NIOSH REL-TWA (1988).

(t) - SGC derived from ACGIH TLV-TWA (1990-1991).

(A) - AGC based on NYSDEC structure-activity analogy.

(D) - AGC derived from NYSDEC, Division of Air Resources, Bureau of Air Toxics, Toxics Assessment Section.

(E) - AGC based on derivation by USEPA.

(I) - AGC based on RFC developed by USEPA - Integrated Risk Information System (IRIS), input pending.

(R) - AGC derived from NIOSH REL-TWA (1988).

(T) - AGC derived from ACGIH TLV-TWA (1990-1991).

(U) - AGC is the ambient air concentration which corresponds to an excess cancer risk of one in one million for a lifetime exposure.

TABLE 2

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

SUMMARY OF AIR STRIPPER OPERATIONAL DATA

Second Year of Operation
Second Quarter Test

VOST RUN NUMBER	WELL 1 FLOW(a) (GPM)	WELL 2 FLOW (GPM)	WELL 3 FLOW (GPM)	WELL 4 FLOW (GPM)	WELL 5 FLOW (GPM)	SYSTEM FLOW (GPM)	STRIPPER FLOW (GPM)	PRESSURE FILTER FLOW (GPM)	BLOWER AIR FLOW(b) (CFM)	AIR PRESSURE(c) (Inches H2O)	GROUNDWATER PROCESSED(d) (gallons)
S-61	NA	277	199	202	212	842	1,030	1,110	NA	NA	25,500
S-62	NA	280	197	198	203	867	789	557	NA	NA	14,400
S-63	NA	279	204	192	228	874	1,030	1,110	NA	NA	19,800
S-64	NA	278	200	197	233	875	1,010	1,120	NA	NA	16,400
S-65	NA	277	204	195	231	880	794	559	NA	NA	14,500
S-66	NA	275	201	197	218	878	806	562	NA	NA	20,000
S-67	NA	276	196	200	226	876	720	1,110	NA	NA	13,800
S-68	NA	277	204	197	208	862	876	906	NA	NA	20,500
S-69	NA	278	198	197	235	882	792	558	NA	NA	12,600
S-70	NA	275	204	201	224	874	1,030	1,100	NA	NA	20,400
S-71	NA	278	198	199	214	853	789	897	NA	NA	12,400
S-72	NA	278	196	202	204	839	1,032	1,100	NA	NA	21,500
Average	NA	277	200	198	220	867	891	891	NA	NA	17,700

NOTE:

NA - Measurements were not available.

(a) Well 1 was down for repairs.

(b) Blower air flow meter not working.

(c) Air pressure meter not working.

(d) Values determined from the air stripper inlet flow totalizer recordings.

TABLE 3

**OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY**

AIR STRIPPER VOST RESULTS - TEST P

**Second Year of Operation
Second Quarter Test Results**

Sample ID	S-61	S-62	S-63	S-64	Condensate	Average
Sample Volume (L)*	3.94	4.03	3.98	3.87		3.96
Flow Rate (ACFM)	11,900			12,800		12,400
Stack Temperature (Deg.F)	54			54		54
Lower Quantitation Limit (ng/l)	60.9	54.6	40.2	41.3		49.3

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene	86.3	57.1	70.4	64.6	NA	69.6
Bromodichloromethane					NA	
Bromoform					NA	
Carbon Tetrachloride					NA	
Chlorobenzene					NA	
Chloroethane					NA	
Chloroform					NA	
Dibromochloromethane					NA	
1,2-Dichlorobenzene (o)					NA	
1,3-Dichlorobenzene (m)					NA	
1,4-Dichlorobenzene (p)					NA	
1,1-Dichloroethane	147	86.8	116	114	NA	116
1,2-Dichloroethane					NA	
1,1-Dichloroethene					NA	
cis-1,2-Dichloroethene **	558	471	503	543	NA	519
trans-1,2-Dichloroethene					NA	
1,2-Dichloropropane					NA	
Ethylbenzene					NA	
Freon 13**					NA	
Methylene Chloride					NA	
Tetrachloroethene	4,820	2,110	4,270	3,880	NA	3,770
Toluene					NA	
1,1,1-Trichloroethane					NA	
Trichloroethene	254	161	216	186	NA	204
Vinyl Chloride					NA	
Xylenes (Total)	68.5		57.8	51.7	NA	<58.2

NOTE:

- All blank values are below the Lower Quantitation Limit.
- < Values are used where the Lower Quantitation Limit is averaged with reported values.
- A condensate sample was not available (NA) for collection.

* Corrected to stack conditions.

** Tentatively Identified Compound (TIC).

TABLE 4

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AIR STRIPPER VOST RESULTS - TEST Q

Second Year of Operation
Second Quarter Test Results

Sample ID	S-65	S-66	S-67	S-68	Condensate	Average
Sample Volume (L)*	3.87	3.73	3.62	4.2		3.86
Flow Rate (ACFM)	12,800			11,800		12,300
Stack Temperature (Deg.F)	54			54		54
Lower Quantitation Limit (ng/l)	46.5	37.5	38.7	33.3		39.0

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene	62.0	83.1	55.2	81	NA	70.3
Bromodichloromethane					NA	
Bromoform					NA	
Carbon Tetrachloride					NA	
Chlorobenzene					NA	
Chloroethane					NA	
Chloroform					NA	
Dibromochloromethane					NA	
1,2-Dichlorobenzene (o)					NA	
1,3-Dichlorobenzene (m)					NA	
1,4-Dichlorobenzene (p)					NA	
1,1-Dichloroethane	103	147	99.4	155	NA	126
1,2-Dichloroethane					NA	
1,1-Dichloroethene					NA	
cis-1,2-Dichloroethene **	388	536	359	452	NA	434
trans-1,2-Dichloroethene					NA	
1,2-Dichloropropane					NA	
Ethylbenzene					NA	
Freon 13**					NA	
Methylene Chloride		42.9		45.2	NA	<43.3
Tetrachloroethene	3,620	5,360	3,590	5,240	NA	4,450
Toluene					NA	
1,1,1-Trichloroethane		40.2		42.9	NA	<42.1
Trichloroethene	183	241	169	238	NA	208
Vinyl Chloride					NA	
Xylenes (Total)	49.1	69.7	47.0	71.4	NA	59.3

NOTE:

- All blank values are below the Lower Quantitation Limit.
- < Values are used where the Lower Quantitation Limit is averaged with reported values.
- A condensate sample was not available (NA) for collection.

* Corrected to stack conditions.

** Tentatively Identified Compound (TIC).

TABLE 5

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AIR STRIPPER VOST RESULTS - TEST R

Second Year of Operation
Second Quarter Test Results

Sample ID	S-69	S-70	S-71	S-72	Condensate	Average***
Sample Volume (L)*	3.67	3.78	3.97	4.13		3.89
Flow Rate (ACFM)	11,800			12,900		12,400
Stack Temperature (Deg.F)	54			54		54
Lower Quantitation Limit (ng/l)	38.1	37.0	35.3	38.7		37.3

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene	49.0	82.0	47.9	72.6	NA	62.9
Bromodichloromethane					NA	
Bromoform					NA	
Carbon Tetrachloride					NA	
Chlorobenzene					NA	
Chloroethane					NA	
Chloroform					NA	
Dibromochloromethane					NA	
1,2-Dichlorobenzene (o)					NA	
1,3-Dichlorobenzene (m)					NA	
1,4-Dichlorobenzene (p)					NA	
1,1-Dichloroethane	81.7	138	75.6	140	NA	109
1,2-Dichloroethane					NA	
1,1-Dichloroethene					NA	
cis-1,2-Dichloroethene **	381	661	302	484	NA	457
trans-1,2-Dichloroethene					NA	
1,2-Dichloropropane					NA	
Ethylbenzene					NA	
Freon 13**					NA	
Methylene Chloride		39.7		38.7	NA	<38.0
Tetrachloroethene	3,000	5,030	2,770	5,080	NA	3,970
Toluene					NA	
1,1,1-Trichloroethane	139	39.7		43.6	NA	<64.4
Trichloroethene		233	136	235	NA	<161
Vinyl Chloride					NA	
Xylenes (Total)	40.9	71.4	37.8	63.0	NA	53.3

NOTE:

- All blank values are below the Lower Quantitation Limit.
- < Values are used where the Lower Quantitation Limit is averaged with reported values.
- A condensate sample was not available (NA) for collection.

* Corrected to stack conditions.

** Tentatively Identified Compound (TIC).

TABLE 6

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AIR STRIPPER VOST TEST RESULTS

Second Year of Operation
Second Quarter Test Results

Sample ID	P	Q	R	Average****	S-FB(A)	S-TB(A)
Sample Volume (L)*	3.96	3.86	3.89	3.90		
Flow Rate (ACFM)	12,400	12,300	12,400	12,400		
Stack Temperature (Deg.F)	54	54	54	54		
Lower Quantitation Limit (ng/l)	49.3	39.0	37.3	41.9	20*****	20*****

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	(ng)	(ng/l)
Benzene	69.6	70.3	62.9	67.6		
Bromodichloromethane						
Bromoform						
Carbon Tetrachloride						
Chlorobenzene						
Chloroethane						
Chloroform						
Dibromochloromethane						
1,2-Dichlorobenzene (o)						
1,3-Dichlorobenzene (m)						
1,4-Dichlorobenzene (p)						
1,1-Dichloroethane	116	126	109	117		
1,2-Dichloroethane						
1,1-Dichloroethene						
cis-1,2-Dichloroethene **	519	434	457	470		
trans-1,2-Dichloroethene						
1,2-Dichloropropane						
Ethylbenzene						
Freon 13**						
Methylene Chloride		<43.3	<38.0	<43.5		
Tetrachloroethene	3,770	4,450	3,970	4,060		
Toluene						
1,1,1-Trichloroethane		<42.1	<64.4	<51.9		
Trichloroethene	204	208	<161	<191		
Vinyl Chloride						
Xylenes (Total)	<58.2	59.3	53.3	<56.9		

NOTE:

- All blank values are below the Lower Quantitation Limit.
- < Values are used where the Lower Quantitation Limit is averaged with reported values.

- * Test ID: P - Average of Runs S-61, S-62, S-63 and S-64
Q - Average of Runs S-65, S-66, S-67 and S-68
R - Average of Runs S-69, S-70, S-71 and S-72

** Corrected to stack conditions.

*** Tentatively Identified Compound (TIC).

**** Average of three (3) VOST tests.

***** The Lower Quantitation Limit (LQL) for the Stack Sampling Train Field Blank (S-FB(A)) and Trip Blank (S-TB(A)) as 20ng (mass loading limit of detection).

S-FB(A) - Second year second quarter stack sampling train.

S-TB(A) - Second year second quarter stack and ambient air trip blank.

TABLE 7

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

**COMPARISON OF AIR STRIPPER EMISSION CONCENTRATIONS
USING TWO INDEPENDENT METHODS**

Second Year of Operation
Second Quarter Test Results

CONSTITUENT	WATER INFLUENT CONCENTRATION (ug/l)	WATER EFFLUENT CONCENTRATION (ug/l)	STACK EXHAUST CONCENTRATION (ng/l)	VOST STACK EXHAUST CONCENTRATION (ng/l)	RATIO WATER/VOST
Benzene	5.01	0.04	53.1	70.4	0.75
Bromodichloromethane					
Bromoform					
Carbon Tetrachloride					
Chlorobenzene	1.27	0.02	13.4		
Chloroethane	0.17				
Chloroform	4.51	0.01	48.1		
Dibromochloromethane					
1,2-Dichlorobenzene (o)	0.81	0.02	8.44		
1,3-Dichlorobenzene (m)	0.14	0.02	1.28		
1,4-Dichlorobenzene (p)	2.70	0.03	28.5		
1,1-Dichloroethane	8.03	0.01	85.7	116	0.74
1,2-Dichloroethane	0.54				
1,1-Dichloroethene	0.54				
cis-1,2-Dichloroethene*	47.21	0.23	502	503	1.0
trans-1,2-Dichloroethene	0.36				
1,2-Dichloropropane					
Ethylbenzene	0.04	0.01	0.320		
Methylene Chloride	6.47				
Tetrachloroethene	198.14	0.85	2,110	4,270	0.49
Toluene	0.06	0.01	0.534		
1,1,1-Trichloroethane	3.79				
Trichloroethene	17.79	0.08	189	216	0.88
Vinyl Chloride	5.35				
Xylenes (Total)	4.38	0.06	46.1	57.8	0.80

NOTES:

- ug/l = micrograms per liter of water.
- ng/l = nanograms per liter of air leaving tower.
- Exhaust Concentration: Concentration in ng/l based on water samples.
- VOST Exhaust Concentration: Concentration in ng/l based on VOST sample run S-63 collected at the air stripper stack.
- Blank values <40.2 ng/l.
- Ratio Water/VOST: Ratio of Water derived emission estimate vs. stack test VOST emission estimate.
- Water test 9/24/93 results provided by the Town of Oyster Bay, Department of Public Works on-site laboratory.

*Tentatively Identified Compound (TIC) via VOST.

TABLE 8

**OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY**

SUMMARY OF AIR STRIPPER AMMONIA EMISSIONS

**Second Year of Operation
Second Quarter Test Results**

TEST ID	SAMPLE ID	SAMPLE VOLUME (m3)	CATCH (ug)	AMMONIA CONC. (ug/m3)	STACK FLOW RATE (ACFM)	MASS EMISSION RATE (lb/hr)
P	2-2NH3-1F&B	0.0237	<5	<211	12,400	<0.00980
Q	2-2NH3-2F&B	0.0255	<5	<196	12,300	<0.00903
R	2-2NH3-3F&B	0.0226	<5	<221	12,400	<0.0103
AVERAGE				<209	12,400	<0.00971

Notes:

m3 - cubic meters

ug - micrograms

ug/m3 - micrograms per cubic meter.

ACFM - actual cubic feet per minute.

lb/hr - pounds per hour.

TABLE 9

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

AMBIENT AIR VOST TEST RESULTS

Second Year of Operation
Second Quarter Test Results

Sample ID*	A2-2U	A2-2D1	A2-2D2	A2-2(FB)	A2-2(TB)
Sample Volume (L)**	391	382	408		
Ambient Temperature (Deg.F)	66	66	66		
Lower Quantitation Limit (ng/l)	0.0512	0.0524	0.142****	20*****	20*****

TARGET COMPOUND	(ng/l)	(ng/l)	(ng/l)	(ng/l)	
Benzene	0.0997	0.120	0.189		
Bromodichloromethane					
Bromoform					
Carbon Tetrachloride	0.151	0.126	0.221		
Chlorobenzene					
Chloroethane					
Chloroform					
Dibromochloromethane					
1,2-Dichlorobenzene (o)					
1,3-Dichlorobenzene (m)					
1,4-Dichlorobenzene (p)					
1,1-Dichloroethane					
1,2-Dichloroethane					
1,1-Dichloroethene					
cis-1,2-Dichloroethene ***					
trans-1,2-Dichloroethene					
1,2-Dichloropropane					
Ethylbenzene	0.174	0.288	0.225		
Freon 13***					
Methylene Chloride	0.0818	0.0524	0.184		
Tetrachloroethene	0.742	0.812	1.67		
Toluene	1.25	1.99	2.18		
1,1,1-Trichloroethane	0.253	0.212	0.368		
Trichloroethene	0.0512	0.173	0.142		
Vinyl Chloride					
Xylenes (Total)	0.691	1.15	1.18		

NOTE:

- All blank values are below the Lower Quantitation Limit.

- * Run Number: A2-2U (Ambient sample upwind of the air stripper).
A2-2D1 (Ambient sample downwind of the air stripper).
A2-2D2 (Ambient sample downwind of the air stripper).
A2-1FB (Ambient sampling train field blank).
S-TB(A) (Second year, second quarter stack and ambient air trip blank).

** Sample volume at ambient conditions.

*** Tentatively Identified Compound (TIC).

**** Lowest reported detected limit. See RTL report.

***** The Lower Quantitation Limit (LQL) for the Ambient Sampling Train Field Blank A2-2(FB) and the Second Year, Second Quarter Test Effort Trip Blank A2-2(TB) as 20 ng (mass loading LQL).

TABLE 10

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

COMPARISON OF APPLICABLE DISCHARGE REQUIREMENTS
FOR AIR STRIPPER TREATMENT SYSTEM WITH STACK TEST RESULTS

Second Year of Operation
Second Quarter Test Results

CONSTITUENT	STACK TEST DISCHARGE CONCENTRATION* (ug/m3)	STACK DISCHARGE REQUIREMENTS** (ug/m3)
Ammonia	<209	360
Benzene	67.6	100
Bromodichloromethane		0.03
Bromoform		16.7
Carbon Tetrachloride		100
Chlorobenzene		1,170
Chloroethane		52,000
Chloroform		167
Dibromochloromethane		0.03
1,2-Dichlorobenzene (o)		1,000
1,3-Dichlorobenzene (m)		0.03
1,4-Dichlorobenzene (p)		1,500
1,1-Dichloroethane	117	2,700
1,2-Dichloroethane		20
1,2-Dichloroethenes***	<512	2,630****
1,1-Dichloroethene		66.7
1,2-Dichloropropane		1,170
Ethylbenzene		1,450
Freon 13***		0.03
Methylene Chloride	<43.5	1,170
Tetrachloroethene	4,060	1,120
Toluene		7,500
1,1,1-Trichloroethane	<51.9	38,000
Trichloroethene	<191	900
Vinyl Chloride		0.4
Xylenes (Total)	<56.9	1,450

NOTES:

- Stack test discharge concentrations are derived from VOST tests.
- All blank values are below the Lower Quantitation Limit (41.9 ug/m3).
- * Values in shaded areas exceed applicable air discharge requirements.
- ** As per of the Final Consent Decree (Table 1).
- *** Tentatively Identified Compounds (TIC).
- **** Total of cis and trans isomers.

TABLE 11

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

MODEL VALIDATION RESULTS FOR TETRACHLOROETHENE

Second Year of Operation
Second Quarter Test Results

SAMPLE LOCATION	MODEL RUN 9321 RESULTS (ug/m3)	MODEL RUN 9322 RESULTS (ug/m3)	MEASURED IMPACT (ug/m3)	MODEL RUN 9321 PRED: OBS (Ratio)	MODEL RUN 9322 PRED: OBS (Ratio)
1D	0.000022	0.00	0.070	0.00031	0
2D	0.187	0.612	0.928	0.20	0.66

Model Run 9321 = 1993 second quarter, second year run 1 using RAP building meteorology.

Model Run 9322 = 1993 second quarter, second year run 1 using site ID meteorology.

TABLE 12

OLD BETHPAGE LANDFILL
GROUNDWATER TREATMENT FACILITY

MAXIMUM ANNUAL IMPACTS BASED ON CORRECTED AIR STRIPPER EMISSIONS TEST RESULTS

Second Year of Operation
Second Quarter Test Results

CONSTITUENT	EMISSION RATES (g/s)	MAXIMUM ANNUAL IMPACT	PREVIOUS AGC**	CURRENT AGC**
Ammonia	<0.00223		360	360
Benzene	0.000444		100	0.12
Bromodichloromethane			0.03	0.02
Bromoform			11.9	12
Carbon Tetrachloride			100	0.07
Chlorobenzene			1,170	20
Chloroethane			52,000	63,000
Chloroform			167	23
Dibromochloromethane			0.03	0.1
1,2-Dichlorobenzene (o)			1,000	200
1,3-Dichlorobenzene (m)			714	200
1,4-Dichlorobenzene (p)				700
1,1-Dichloroethane	0.000740		9,524	500
1,2-Dichloroethane			0.2	0.039
1,1-Dichloroethene			66.7	0.02
cis-1,2-Dichloroethene *	0.00283		1,880	1,900
trans-1,2-Dichloroethene			360	360
1,2-Dichloropropane			833	0.15
Ethylbenzene			1,450	1,000
Freon 13*			133,333	530
Methylene Chloride	<0.000281		1,170	27
Tetrachloroethene	0.0238		1,120	1.2
Toluene			7,500	2,000
1,1,1-Trichloroethane	<0.000307		38,000	1,000
Trichloroethene	<0.00113		900	0.45
Vinyl Chloride			0.4	0.02
Xylenes (Total)	<0.000340		1,450	300

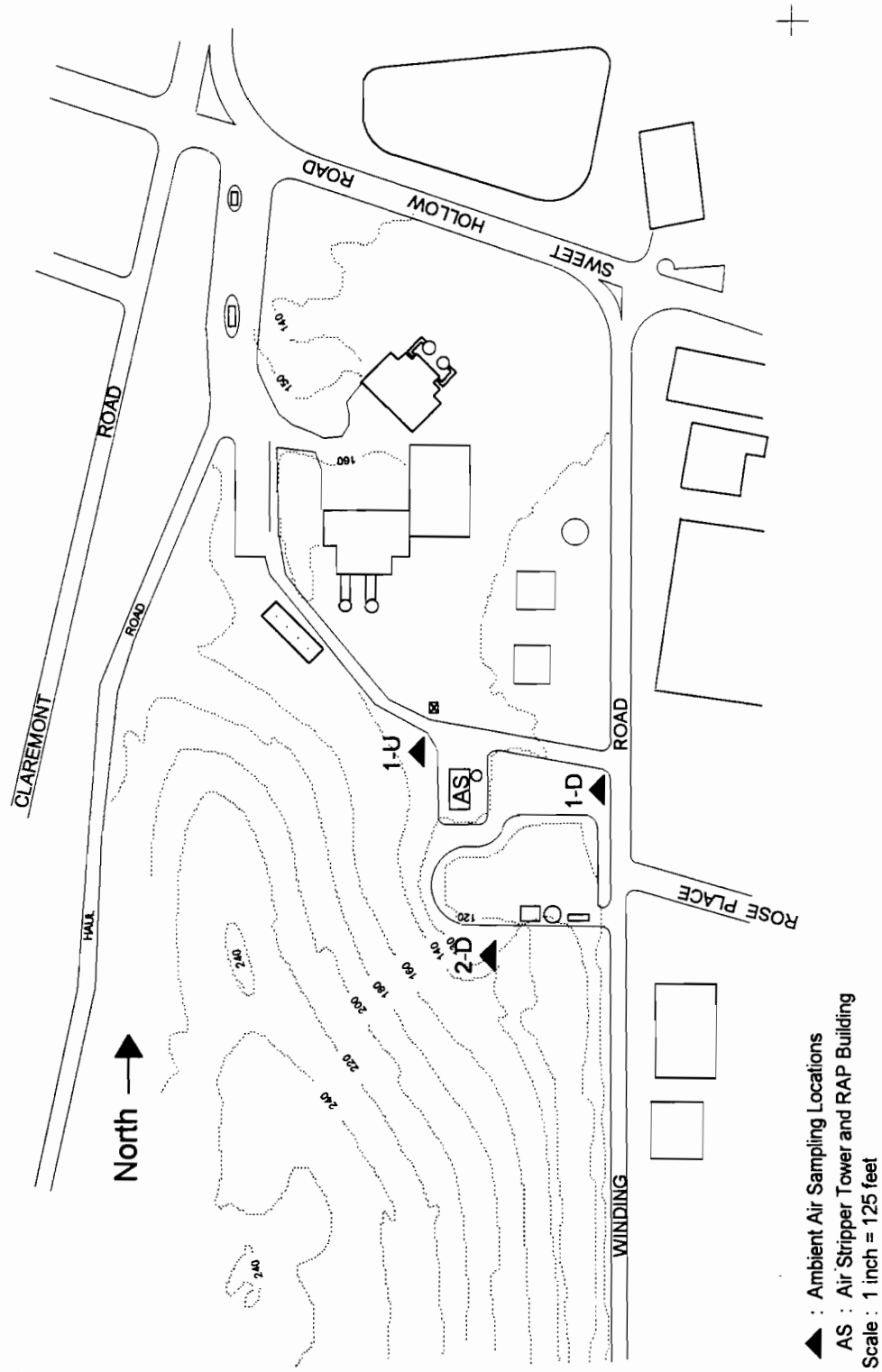
NOTES:

- Emission rates for each reported VOC and ammonia was corrected to represent emissions during the operations of all five (5) ground water wells. At the time of the second year, second quarter test (9/24/93) only four wells were in service (2,3,4 and 5).
- All blank Emission Rate values are <0.000333 g/s.
- Annual maximum impacts were not calculated due to poor model verification tests.

AGC = Annual Guideline Concentration

FIGURE 1
 OLD BETHPAGE LANDFILL
 GROUNDWATER TREATMENT FACILITY

SITE MAP



APPENDIX G

**"Quarterly Monitoring Report Sixth Quarter Results"
February 1994**

**QUARTERLY MONITORING REPORT
SIXTH (OPERATIONAL) QUARTER RESULTS
JULY THROUGH SEPTEMBER 1993
OLD BETHPAGE LANDFILL
GROUNDWATER REMEDIATION PROGRAM
OLD BETHPAGE, NEW YORK**

February 1994

Prepared for

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**QUARTERLY MONITORING REPORT
THIRD QUARTER 1993 RESULTS
OLD BETHPAGE LANDFILL
GROUNDWATER REMEDIATION PROGRAM
OLD BETHPAGE, NEW YORK**

February 28, 1994

Geraghty & Miller, Inc. is submitting this report to Lockwood, Kessler & Bartlett, Inc. and the Town of Oyster Bay for work performed at the Old Bethpage Landfill, Bethpage, New York. The report was prepared in conformance with Geraghty & Miller's strict quality assurance/quality control procedures to ensure that the report meets industry standards in terms of the methods used and the information presented. If you have any questions or comments concerning this report, please contact one of the individuals listed below.

Respectfully submitted,

GERAGHTY & MILLER, INC.

Carlo San Giovanni for

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TABLES

1. Water-Level Data Collected on July 6, 1993, Old Bethpage Landfill, Old Bethpage, New York.
2. Water-Level Data Collected on August 3, 1993, Old Bethpage Landfill, Old Bethpage, New York.
3. Water-Level Data Collected on September 13, 1993, Old Bethpage Landfill, Old Bethpage, New York.
4. Pumpage Records for the Groundwater Remediation System, July 1 Through September 30, 1993, Old Bethpage Landfill, Old Bethpage, New York.



TABLES (Continued)

5. **Sixth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.**
6. **Sixth (Operational) Quarter Results of Analyses for Dissolved (Filtered) Metals in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.**
7. **Sixth (Operational) Quarter Results for Total (Unfiltered) Metals and Leachate Indicators in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.**

FIGURES

1. **Configuration of the Water-Table Surface on July 6, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
2. **Configuration of the Shallow Potentiometric Surface on July 6, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
3. **Configuration of the Deep Potentiometric Surface on July 6, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
4. **Configuration of the Water-Table Surface on August 3, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
5. **Configuration of the Shallow Potentiometric Surface on August 3, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
6. **Configuration of the Deep Potentiometric Surface on August 3, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
7. **Configuration of the Water-Table Surface on September 13, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
8. **Configuration of the Shallow Potentiometric Surface on September 13, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**
9. **Configuration of the Deep Potentiometric Surface on September 13, 1993 in the Vicinity of the Old Bethpage Landfill, Old Bethpage, New York.**



FIGURES (Continued)

10. Approximate Distribution of Total Volatile Halogenated Organics in Groundwater in July 1993, Old Bethpage Landfill, Old Bethpage, New York.
11. Approximate Distribution of Total Aromatic Hydrocarbons in Groundwater in July 1993, Old Bethpage Landfill, Old Bethpage, New York.
12. Approximate Distribution of Tetrachloroethene in Groundwater in July 1993, Old Bethpage Landfill, Old Bethpage, New York.

APPENDICES

- A. Laboratory Data Reports.
- B. Third Quarter 1993 Water Sampling Logs.
- C. Groundwater Sampling Protocols.



**QUARTERLY MONITORING REPORT
SIXTH (OPERATIONAL) QUARTER RESULTS
JULY THROUGH SEPTEMBER 1993
OLD BETHPAGE LANDFILL
GROUNDWATER REMEDIATION PROGRAM
OLD BETHPAGE, NEW YORK**

INTRODUCTION

Geraghty & Miller, Inc. has prepared this report at the request of Lockwood, Kessler & Bartlett, Inc. (LKB) and the Town of Oyster Bay to summarize and evaluate data collected at the Old Bethpage Landfill, Old Bethpage, New York during the sixth quarter (July through September 1993) of the groundwater remediation system operation.

The groundwater remediation system at the Old Bethpage Landfill became operational on April 1, 1992. Geraghty & Miller initiated monthly hydraulic monitoring approximately 30 days after system start-up and quarterly groundwater quality monitoring 3 months after system start-up in accordance with the Remedial Action Plan (RAP), which is Appendix I of the Record of Decision (New York State Department of Environmental Conservation [NYSDEC] and U.S. Environmental Protection Agency [USEPA] 1988). During the third quarter of 1993, three synoptic rounds of water-level measurements (July 6, August 3, and September 13, 1993) and one round of quarterly groundwater sampling (July 7 through 9, 1993) were conducted.

The purposes of the hydraulic monitoring are to (1) delineate the mounding effects (if any) in the vicinity of the recharge basin and (2) delineate the effective capture zone of the recovery system (i.e., determine the effectiveness of the hydraulic containment system in exerting control over the volatile organic compound [VOC] plume). The purposes of the groundwater quality monitoring are to (1) assess the progress of groundwater cleanup and (2) demonstrate whether the termination criteria set forth in the RAP have been met.

Water-level data collected during this quarter are summarized in Tables 1, 2, and 3; pumpage data for the third quarter 1993 groundwater recovery system operation are



provided in Table 4. Groundwater quality data are summarized in Tables 5 through 7 and are provided in Appendix A. Water sampling logs for this quarter and groundwater sampling protocols are provided in Appendices B and C, respectively.

WATER-LEVEL MEASUREMENTS AND MAPPING

On July 6, August 3, and September 13, 1993, Geraghty & Miller collected synoptic water-level measurements from site monitoring wells. All recovery wells were in operation for the July and August water-level measurement rounds; Recovery Well RW-1 was not operating during the September round. Pumpage records for the groundwater remediation system from July 1 through September 30, 1993 are summarized in Table 4. The groundwater recovery system was fully operational for approximately 10 days of the 92-day third quarter 1993 reporting period.

Depth-to-water measurements and water-level elevations (relative to mean sea level) for the July 1993, August 1993, and September 1993 rounds are summarized in Tables 1, 2, and 3, respectively. Similar to previous rounds, water-level elevations for each round were plotted for the water-table, shallow potentiometric, and deep potentiometric surfaces on the site base map (see Figures 1 through 9). Where appropriate, water-level contour lines, the approximate extent of the VOC plume (using data from the July 1993 groundwater sampling round), and limiting flow lines were drawn on the maps. Contour lines were dashed where the data points were less than optimum, and limiting flow lines through these areas are approximate. Water-level elevation data and limiting flow lines presented on Figures 2, 3, 5, and 6 indicate that system pumpage, which was approximately 1,053 gallons per minute (gpm) on the day the water levels were measured, was sufficient to create and maintain a capture zone that exerted effective hydraulic control over the VOC plume, both horizontally and vertically. The effective capture zone shown on Figures 8 and 9 is smaller than that shown on Figures 2, 3, 5, and 6; and, it is questionable if effective hydraulic control over the VOC plume was maintained. The most likely reason for the reduced capture zone is that Recovery Well RW-1 was not operating.



JULY 1993 WATER-LEVEL ELEVATIONS

Contour maps depicting elevations of the water-table, shallow potentiometric, and deep potentiometric surfaces on July 6, 1993 are shown on Figures 1, 2, and 3, respectively. Compared to the June 1993 data, water-level elevations from the July 1993 round generally decreased by approximately 0.5 ft. However, water-level elevations in Wells 6C, 6D, 6F, RW-1, RW-2, and RW-5 decreased by approximately 1.5 ft. Water-level elevations measured in this round ranged from over 70 ft above mean sea level (msl) (north of the site) to less than 57 ft above msl (south of the site), and the horizontal direction of groundwater flow was generally to the southeast across the site.

In general, water-level elevation data for the July 1993 round indicate an overall decline in water levels of approximately 2.5 ft compared to baseline data collected prior to system start-up (Geraghty & Miller, Inc. 1992a). Furthermore, data presented on Figure 1 indicate a localized mounding of the water table immediately adjacent to the recharge basin that receives treated water from the groundwater remediation system. Well OBS-1 was damaged sometime between the June 1993 and the July 1993 water-level measurement rounds; therefore, water levels were not measured in this well during the third quarter 1993. Well OBS-1 will be repaired in the near future.

AUGUST 1993 WATER-LEVEL ELEVATIONS

Contour maps depicting elevations of the water-table, shallow potentiometric, and deep potentiometric surfaces on August 3, 1993 are shown on Figures 4, 5, and 6, respectively. Compared to the July 6, 1993 round, water-level elevations from the August round generally decreased by 0.6 ft across the site, except in Recovery Well RW-3, where the water level was approximately the same as the July round, and in Recovery Wells RW-1 and RW-5, where water levels decreased by more than 2 ft. Water-level elevation data for August 1993 decreased approximately 3.0 ft compared to baseline data (Geraghty & Miller, Inc. 1992a), and the horizontal direction of groundwater flow was similar to the July round.



During this round, localized mounding was also observed immediately adjacent to the recharge basin that receives treated water from the groundwater remediation system (see Figure 4).

SEPTEMBER 1993 WATER-LEVEL ELEVATIONS

Contour maps depicting elevations of the water-table, shallow potentiometric, and deep potentiometric surfaces on September 13, 1993 are shown on Figures 7, 8, and 9, respectively. Compared to the August 3, 1993 round, water-level elevations from the September round generally decreased by 1 ft across the site, except in Recovery Well RW-5, which did not change from the August round. Because Recovery Well RW-1 was not operating during the September round, water-level elevations in and adjacent to Well RW-1 are higher than in the August round. Water-level elevation data for September 1993 decreased approximately 4.0 ft compared to baseline data (Geraghty & Miller, Inc. 1992a). The horizontal direction of groundwater flow was similar to the July and August rounds, and localized mounding, immediately adjacent to the recharger basin that receives treated water from the groundwater remediation system, was also observed during the September round (see Figure 7).

GROUNDWATER SAMPLING AND CONTAMINANT DISTRIBUTION

Geraghty & Miller conducted the third quarter 1993 round of groundwater quality sampling at the site from July 7 through 9, 1993. The sampling protocols followed were the same as those used in previous rounds and are provided in Appendix C. The analytical parameters and results obtained are summarized in Tables 5 through 7. Laboratory data reports for this sampling round are provided in Appendix A. The water sampling logs used to record observations and measurements during groundwater sampling are provided in Appendix B.



Sample collection, equipment decontamination, and quality assurance/quality control (QA/QC) procedures used for the July 1993 round were identical to those used for the previous sampling round in April 1993. As discussed previously, Well OBS-1 was damaged and, therefore, a sample could not be collected from this well. Well OBS-2 was sampled in place of OBS-1 because their screen zones are similar. Data collected during the July 1993 sampling round are summarized below and compared to data from the April 1993 round and the July/August 1991 baseline sampling round in which samples were collected prior to remediation system start-up.

VOLATILE ORGANIC COMPOUND PLUME

VOCs detected in the July 1993 sampling round exhibit the same groupings of compounds, but a slightly different pattern of groundwater contamination from previous quarterly sampling rounds and the baseline sampling round. These VOC groupings include (1) volatile halogenated organics (VHOs), except tetrachloroethene; (2) aromatic hydrocarbons; and (3) tetrachloroethene. Analytical results of the samples collected for VOC analysis during the July 1993 sampling round are summarized in Table 5 and described below. The extent and distribution of the VOC groupings listed above are depicted on Figures 10 through 12. The plume dimensions are based upon data from both the monitoring wells and the recovery wells. It is important to note that the screen length of these wells vary greatly. Monitoring wells have 5-ft screen zones, Well OBS-2 has a 25-ft screen zone, and recovery well screen zones vary from 82 ft (RW-2) to 110 ft (RW-5).

In the first VOC grouping, the most prevalent compounds detected, in terms of frequency of occurrence and concentration, were 1,2-dichloroethene and trichloroethene. Other VHOs were also detected, but typically in concentrations of less than 10 micrograms per liter (ug/L). Well 8A had the highest concentration of total VHOs detected, followed in order of decreasing concentrations by Wells 7B, OBS-2, 8B, and 5B. In general, concentrations of total VHOs detected in the July 1993 round were less than those detected in the April 1993 round and in the baseline round. For example, the concentration of 1,2-



dichloroethene detected in Well 7B decreased from 33 ug/L in the April 1993 round to 14 ug/L in the July 1993 round and concentrations of trichloroethene detected in Well 8A decreased from 35 ug/L in the July/August 1991 baseline round to 14 ug/L in the July 1993 round. In addition, VHOs were not detected (above the method detection limit) in Well Clusters 6 and 9 in the July 1993 round. The approximate lateral extent of VHOs in groundwater in July 1993 is shown on Figure 10.

The second VOC grouping, aromatic hydrocarbons (consisting of benzene, ethylbenzene, chlorobenzene, p-dichlorobenzene, and o-dichlorobenzene), is shown on Figure 11. The highest concentrations of aromatic hydrocarbons were detected in Wells 6B and 6E, followed in order of decreasing concentration by Wells 9C, 5B, and 6A. In general, total concentrations of aromatic hydrocarbons detected in the July 1993 round were approximately the same as those detected in the April 1993 round and less than those detected in the July/August 1991 baseline round (Geraghty & Miller, Inc. 1992a). The approximate lateral extent of aromatic hydrocarbons in groundwater in July 1993 (Figure 11) is similar to the lateral extent based on April 1993 data and has decreased compared to the lateral extent in the July/August 1991 baseline round (Geraghty & Miller, Inc. 1992a).

The third VOC grouping, tetrachloroethene, exhibits a very different distribution than the first two VOC groupings. Figure 12 illustrates the approximate lateral extent of tetrachloroethene in groundwater in July 1993. The July 1993 lateral extent for tetrachloroethene is similar to the April 1993 data and to the July/August 1991 baseline round data (Geraghty & Miller, Inc. 1992a), except the western plume was not observed in this round. The western plume may not have been observed because Well OBS-1 is damaged and was not sampled during the July 1993 round. The highest concentration of tetrachloroethene was detected in Well 8A, followed by Well 7B. The concentrations of tetrachloroethene detected in the July 1993 round are less than those detected in the April 1993 round and in the July/August 1991 baseline rounds (Geraghty & Miller, Inc. 1992a). For example, the concentrations of tetrachloroethene detected in the July 1993 round have decreased in Wells 7B and 8A when compared with the July/August 1991 baseline data and



the April 1993 data. The concentrations of tetrachloroethene detected in Well 7B decreased from 140 ug/L and 130 ug/L in the July/August 1991 baseline round and April 1993 round, respectively, to 75 ug/L in the July 1993 round. The concentrations of tetrachloroethene detected in Well 8A decreased from 440 ug/L and 380 ug/L in the July/August 1991 baseline round and April 1993 round, respectively, to 270 ug/L in the July 1993 round.

INORGANIC COMPOUND PLUME

Inorganic data collected during the July 1993 groundwater sampling round are summarized in Tables 6 and 7. In general, leachate indicators detected in total (unfiltered) samples from the July 1993 round depict a distribution similar to the data from the April 1993 round. Specifically, the landfill leachate plume exhibits its greatest approximate lateral extent in the middle zone (which is at the approximate elevation of the "B" and "C" wells and is roughly equivalent to the shallow potentiometric zone) and its greatest approximate thickness (approximately 200 ft) in Well Cluster 6. The highest concentrations of ammonia and chloride detected in the July 1993 round were found in Wells 5B, 6B, and 9C. Iron was detected at its highest levels in Wells 6B, 6C, and M-30B. The highest concentrations of hardness were detected in Wells 5B, 6B, 6C, 6E, 8B, and LF-1. Alkalinity was detected at its highest levels in Wells 5B, 6B, 9C, and LF-1. Manganese was detected at its highest level in Well LF-1. The concentrations of leachate indicators detected in the July 1993 round are similar to those detected in the April 1993 round.

POSSIBLE SOURCES OF VOLATILE ORGANIC COMPOUNDS

As previously described by Geraghty & Miller (Geraghty & Miller, Inc. 1986 and 1992b), historical water-quality data for the site indicate that a portion of the observed VOC contamination may be potentially attributable to sources upgradient of the off-site monitoring wells, including the industrial area north of Bethpage State Park (which includes



the Claremont Polychemical site, a USEPA National Priority List site) and the Nassau County Fireman's Training Center, located northwest of Bethpage State Park. Specifically, because Wells 5B and OBS-1 are located hydraulically downgradient of the Nassau County Fireman's Training Center and Wells 8A, 8B, and 7B are located hydraulically downgradient of the Claremont Polychemical site, VOCs detected in these wells may potentially be attributable to these sites. The data indicate that the Claremont Polychemical site is a potential source of VHOs and tetrachloroethene, and the Nassau County Fireman's Training Center is a potential source of aromatic hydrocarbons, VHOs, and tetrachloroethene.

Although the monitoring wells sampled for the July/August 1991 baseline round and the July 1993 monitoring round were installed to identify contamination attributable to the Old Bethpage Landfill, the distribution of VOCs and the groundwater flow direction measured during this reporting period support the findings of Geraghty & Miller's 1986 and 1992 reports that a portion of the VOC contamination detected at the site may be attributable to upgradient sources (Geraghty & Miller, Inc. 1986; 1992a; 1992b). In general, a comparison of the July/August 1991 baseline data and the July 1993 water-quality data indicate an overall decrease in the concentrations of VHOs and tetrachloroethene from potential upgradient sources, while concentrations of aromatic hydrocarbons have remained approximately the same. For example, the concentrations of total VHOs in Wells 8A and 8B (located downgradient of the Claremont Polychemical site) decreased between the July/August 1991 baseline round (65 ug/L and 40 ug/L, respectively) and the July 1993 monitoring round (53 ug/L and 11 ug/L, respectively). In addition, tetrachloroethene, detected in the baseline round at a maximum concentration of 440 ug/L (Well 8A), was detected in the July 1993 round at a maximum concentration of 270 ug/L (Well 8A). Exceptions to these general patterns may be due to pumpage from the adjacent recovery wells.



FINDINGS AND CONCLUSIONS

The following findings and conclusions are based on data presented in this report:

1. Water-level elevation data for July and August 1993 indicate that system pumpage, which was approximately 1.053 gpm on the day the water levels were measured, was sufficient to create and maintain a capture zone that exerted effective hydraulic control over the VOC plume, both horizontally and vertically.
2. Based on water-level elevation data collected on September 13, 1993 when Recovery Well RW-1 was not operating, it is questionable if effective hydraulic control of the VOC plume was maintained.
3. Pumpage data indicate that the groundwater recovery system was fully operational for approximately 10 days of the 92-day third quarter 1993 reporting period.
4. An overall decrease in water-level elevation of approximately 0.5 ft was observed across the site in the July 1993 data, as compared to the June 1993 water-level data. Compared to the July 1993 data, water-level elevations from the August 1993 round also showed a general 0.6 ft decrease across the site. Compared to the August 1993 data, water-level elevations from the September 1993 round were approximately 1 ft lower across the site. Overall, the September 1993 water-level elevation data indicate a decrease of approximately 4 ft across the site compared to the baseline data.
5. Localized mounding of the water table immediately adjacent to the recharge basin, which receives treated water from the groundwater remediation system, was observed during the third quarter 1993.



6. VOCs detected in the third quarter 1993 groundwater sampling round exhibit the same groupings of compounds, but a slightly different pattern of contamination from previous sampling rounds and the baseline sampling round. These VOC groupings include VHOs (except tetrachloroethene), aromatic hydrocarbons, and tetrachloroethene. The July 1993 lateral extent of the VHO plume and the lateral extent of the aromatic hydrocarbon plumes are similar to previous rounds, except that VHOs were not detected in Well Clusters 6 and 9. The July 1993 lateral extent of the tetrachloroethene plume is different than previous rounds. The western tetrachloroethene plume was not observed in July 1993; however, this may be because Well OBS-1 is damaged and was not sampled in July 1993.
7. In general, the concentrations of VHOs and tetrachloroethene detected in the third quarter 1993 groundwater sampling round have decreased compared to the April 1993 round and to baseline data collected in July/August 1991 prior to system start-up.
8. Concentrations of aromatic hydrocarbons detected in the third quarter 1993 are similar to the April 1993 results and have decreased compared to the July/August 1991 baseline data.
9. Although a few exceptions exist, concentrations of leachate indicators detected in total (unfiltered) samples from the third quarter 1993 groundwater sampling round are consistent with the second quarter data. These leachate concentrations depict a similar distribution (i.e., the landfill leachate plume exhibits its greatest approximate lateral extent in the middle zone, which is at the approximate elevation of the "B" and "C" wells and is roughly equivalent to the shallow potentiometric zone, and its greatest approximate thickness [approximately 200 ft] in Well Cluster 6).



10. The Claremont Polychemical site is a potential source of VHOs and tetrachloroethene, and the Nassau County Fireman's Training Center is a potential source of aromatic hydrocarbons, VHOs, and tetrachloroethene.

RECOMMENDATIONS

Based on the data presented in this report, Geraghty & Miller recommends the following:

1. The frequency of hydraulic monitoring should be reduced from monthly to quarterly. To provide for efficient data collection, quarterly hydraulic monitoring should be timed to coincide with the on-going quarterly groundwater sampling program. Geraghty & Miller recommends that the October 1993 round be the last monthly hydraulic monitoring round.
2. To ensure that the largest possible capture zone is created, Geraghty & Miller recommends that the pumpage rate in Well RW-2 be increased when Well RW-1 is inoperable.
3. To determine if hydraulic control of the VOC plume can be effectively maintained at a lower total system pumpage rate, system pumpage should, on a trial basis, be reduced incrementally and hydraulic monitoring should be increased to weekly. Weekly hydraulic monitoring should be continued until the effect of the reduced pumpage rate is determined.
4. The quarterly groundwater sampling program should be continued without change.
5. Wells 9A and OBS-1 should be repaired or replaced so that water levels can be measured year-round and groundwater samples can be collected.



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Table 1. Water-Level Data Collected on July 6, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Well Designation	Elevation of Measuring Point (feet above mean sea level)	Depth to Water (feet below measuring point)	Water-Level Elevation (feet above mean sea level)	Remarks
5A	137.13	72.21	64.92	
5B	138.43	73.48	64.95	
6A	160.24	95.57	64.67	
6B	160.39	95.77	64.62	
6C	159.99	96.25	63.74	
6D	160.39	96.81	63.58	
6E	160.88	96.34	64.54	
6F	159.88	96.86	63.02	
7A	148.44	86.80	61.64	
7B	147.94	88.14	59.80	
8A	134.94	68.99	65.95	
8B	134.24	68.39	65.85	
8C	135.72	70.17	65.55	
9A (1)	153.35 (1)	90.43 (1)	62.92 (1)	
9B	153.28	91.97	61.31	
9C	153.53	93.29	60.24	
9D	152.95	91.98	60.97	
10A	161.28	96.42	64.86	
10B	161.12	96.77	64.35	
10C	160.27	96.02	64.25	
10D	161.17	97.15	64.02	
11A	80.19	22.92	57.27	
11B	79.91	22.79	57.12	
M-29A	158.56	Dry	Dry	Total depth of well is 89 ft.
M-29B	157.41	86.46	70.95	
M-30A	151.20	81.14	70.06	
M-30B	155.65	85.39	70.26	
N-9980	80.46	23.94	56.52	
LF-1	111.40	45.10	66.30	
LF-2	118.70	52.23	66.47	
LF-3	126.50	58.34	68.16	
LF-4	149.93	80.33	69.60	
OBS-1	110.20	NA	--	Damaged
OBS-2	105.26	45.25	60.01	
RW-1	110.94	56.32	54.62	Pumping
RW-2	145.31	91.92	53.39	Pumping
RW-3	120.92	70.36	50.56	Pumping
RW-4	144.82	88.90	55.92	Pumping
RW-5	149.74	95.15	54.59	Pumping
TW-1	121.12	51.73	69.39	
TW-2	117.52	50.88	66.64	
TW-3	122.94	56.26	66.68	
Farm W.D. 1-3	--	26 (2)	CNBC	Static
Farm W.D. 2-2	--	64.5 (2)	CNBC	Static
Farm W.D. 2-3	--	38 (2)	CNBC	Static
Recharge Basin	125.86	2.50	123.36	From top of gauge

-- Elevation unknown.

NA Not assessable; water level could not be measured.

CNBC Could not be calculated.

(1) Screen zone for Well 9A is apparently damaged, gravel pack has entered the well.

(2) Data received from Don Ott on July 6, 1993 (Ott 1993a).



Table 2. Water-Level Data Collected on August 3, 1993 Old Bethpage Landfill, Old Bethpage, New York.

Well Designation	Elevation of Measuring Point (feet above mean sea level)	Depth to Water (feet below measuring point)	Water-Level Elevation (feet above mean sea level)	Remarks
5A	137.13	72.84	64.29	
5B	138.43	74.16	64.27	
6A	160.24	96.18	64.06	
6B	160.39	96.38	64.01	
6C	159.99	95.90	64.09	
6D	160.39	96.43	63.96	
6E	160.88	96.95	63.93	
6F	159.88	96.91	62.97	
7A	148.44	87.37	61.07	
7B	147.94	88.71	59.23	
8A	134.94	69.67	65.27	
8B	134.24	69.11	65.13	
8C	135.72	70.93	64.79	
9A (1)	153.35 (1)	89.90 (1)	63.45 (1)	
9B	153.28	92.55	60.73	
9C	153.53	93.88	59.65	
9D	152.95	92.72	60.23	
10A	161.28	97.07	64.21	
10B	161.12	97.43	63.69	
10C	160.27	96.76	63.51	
10D	161.17	98.11	63.06	
11A	80.19	23.85	56.34	
11B	79.91	23.58	56.33	
M-29A	158.56	Dry	Dry	Total depth of well is 89 ft.
M-29B	157.41	87.43	69.98	
M-30A	151.20	81.97	69.23	
M-30B	155.65	86.39	69.26	
N-9980	80.46	24.87	55.59	
LF-1	111.40	45.85	65.55	
LF-2	118.70	52.85	65.85	
LF-3	126.50	59.09	67.41	
LF-4	149.93	81.12	68.81	
OBS-1	110.20	NA	CNBC	Damaged
OBS-2	105.26	45.98	59.28	
RW-1	110.94	58.51	52.43	Pumping
RW-2	145.31	92.12	53.19	Pumping
RW-3	120.92	70.28	50.64	Pumping
RW-4	144.82	89.45	55.37	Pumping
RW-5	149.74	95.88	53.86	Pumping
TW-1	121.12	52.46	68.66	
TW-2	117.52	51.72	65.80	
TW-3	122.94	56.95	65.99	
Farm W.D. 1-3	-	27.50 (2)	CNBC	Static
Farm W.D. 2-2	-	64.50 (2)	CNBC	Static
Farm W.D. 2-3	-	27.50 (2)	CNBC	Static
Recharge Basin	125.86	2.25 (3)	123.61	From top of gauge

- Elevation unknown.

NA Not assessable; water level could not be measured.

CNBC Could not be calculated.

(1) Screen zone for Well 9A is apparently damaged; gravel pack has entered the well. Water-level measurement does not conform to water levels in surrounding wells. This measurement appears to be inaccurate and was therefore not plotted on water-table figure.

(2) Data received from Don Ott on August 3, 1993 (Ott 1993b).

(3) Data collected August 5, 1993.



Table 3. Water-Level Data Collected on September 13, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Well Designation	Elevation of Measuring Point (feet above mean sea level)	Depth to Water (feet below measuring point)	Water-Level Elevation (feet above mean sea level)	Remarks
5A	137.13	73.68	63.45	
5B	138.43	74.99	63.44	
6A	160.24	97.08	63.16	
6B	160.39	97.29	63.10	
6C	159.99	96.79	63.20	
6D	160.39	97.29	63.10	
6E	160.88	97.86	63.02	
6F	159.88	97.32	62.56	
7A	148.44	88.32	60.12	
7B	147.94	89.64	58.30	
8A	134.94	70.55	64.39	
8B	134.24	69.91	64.33	
8C	135.72	71.64	64.08	
9A (1)	153.35 (1)	Dry	Dry	Total depth of well is 93 ft
9B	153.28	93.38	59.90	
9C	153.53	94.69	58.84	
9D	152.95	93.36	59.59	
10A	161.28	98.07	63.21	
10B	161.12	98.29	62.83	
10C	160.27	97.50	62.77	
10D	161.17	98.73	62.44	
11A	80.19	24.85	55.34	
11B	79.91	24.69	55.22	
M-29A	158.56	Dry	Dry	Total depth of well is 89 ft
M-29B	157.41	88.59	68.82	
M-30A	151.20	82.96	68.24	
M-30B	155.65	87.44	68.21	
N-9980	80.46	25.92	54.54	
LF-1	111.40	46.61	64.79	
LF-2	118.70	53.67	65.03	
LF-3	126.50	59.81	66.69	
LF-4	149.93	81.86	68.07	
OBS-1	110.20	NA	CNBC	Damaged
OBS-2	105.26	46.75	58.51	
RW-1	110.94	50.30	60.64	Not pumping
RW-2	145.31	93.40	51.91	Pumping
RW-3	120.92	71.35	49.57	Pumping
RW-4	144.82	90.50	54.32	Pumping
RW-5	149.74	95.80	53.94	Pumping
TW-1	121.12	53.41	67.71	
TW-2	117.52	52.47	65.05	
TW-3	122.94	Dry	Dry	Total depth of well is 59 ft
Farm W.D. 1-3	--	27.00 (2)	--	Static
Farm W.D. 2-2	--	65.00 (2)	--	Static
Farm W.D. 2-3	--	38.00 (2)	--	Static
Recharge Basin	125.86	2.00	123.86	

- Elevation unknown.
- NA Not assessable; water level could not be measured.
- CNBC Could not be calculated.
- (1) Screen zone for Well 9A is apparently damaged; gravel pack has entered the well.
- (2) Data received from Don Ott on September 13, 1993 (Ott 1993c).



Table 4. Pumpage Records for the Groundwater Remediation System, July 1 Through September 30, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Dates	Estimated Average System Flow (gpm)	Comments
7/1 - 7/5	1108	All recovery wells on.
7/6	1053	Recovery well 1 off.
7/7	942	Recovery wells 1 & 2 off for part of the day.
7/8 - 7/10	873	All recovery wells off for part of the day.
7/11	784	Recovery wells 1 & 3 off for part of the day.
7/12	779	Recovery wells 1, 3 & 5 off for part of the day.
7/13	707	All recovery wells off for part of the day.
7/14	958	Recovery wells 4 & 5 off for part of the day.
7/15	967	Recovery wells 3 & 4 off for part of the day.
7/16 - 7/18	956	Recovery well 3 off for part of the day.
7/19	931	Recovery wells 2 & 3 off for part of the day.
7/20	791	Recovery wells 2 & 4 off for part of the day.
7/21 - 7/24	894	Recovery well 2 off for part of the day.
7/25	782	Recovery wells 1, 2, 3 & 5 off for part of the day.
7/26 - 7/27	561	All recovery wells off for part of the day.
7/28	867	Recovery well 2 off for part of the day.
7/29	605	All recovery wells off for part of the day.
7/30 - 7/31	680	Recovery wells 1 & 5 off for part of the day.
8/1 - 8/3	766	Recovery wells 1 & 5 off for part of the day.
8/4 - 8/8	1103	All recovery wells on.
8/9	899	All recovery wells off for part of the day.
8/10 - 8/11	907	Recovery well 1 off.
8/12	726	All recovery wells off for part of the day.
8/13	790	Recovery well 5 off for part of the day.
8/14	878	Recovery wells 2, 3 & 4 off for part of the day.
8/15 - 8/16	898	Recovery well 1 off.
8/17	880	All recovery wells off for part of the day.
8/18 - 8/19	923	Recovery well 1 off.
8/20	807	Recovery wells 1, 2, 3 & 4 off for part of the day.
8/21	875	All recovery wells off for part of the day.
8/22 - 8/24	923	Recovery well 1 off.
8/25	531	All recovery wells off for part of the day.
8/26	923	Recovery well 1 off.
8/27 - 8/31	404	All recovery wells off for part of the day.
9/1 - 9/2	712	Recovery wells 1 & 4 off for part of the day.
9/3	636	Recovery wells 1, 2 & 4 off for part of the day.
9/4	620	All recovery wells off for part of the day.
9/5 - 9/7	715	Recovery wells 1 & 4 off for part of the day.
9/8	693	All recovery wells off for part of the day.
9/9	732	Recovery wells 1, 2 & 3 off for part of the day.
9/10	442	All recovery wells off for part of the day.
9/11 - 9/13	898	Recovery well 1 off.
9/14 - 9/15	827	Recovery wells 1, 2 & 4 off for part of the day.
9/16 - 9/21	915	Recovery well 1 off.
9/22	811	All recovery wells off for part of the day.
9/23 - 9/26	941	Recovery well 1 off.
9/27	737	Recovery wells 1, 2, 3 & 5 off for part of the day.
9/28 - 9/30	892	Recovery well 1 off.

gpm Gallons per minute.



Table 5. Sixth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Parameter (concentrations in ug/L)	Sample Designation: Sample Date:	5B 7/7/93	6A 7/7/93	6B 7/8/93	6C 7/8/93	6C-Rep 7/8/93	6E 7/8/93
Chloromethane		<1	<1	<1	<1	<1	<1
Bromomethane		<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<2	<2	<2	<2	<2	<2
Vinyl chloride		1	<1	<1	<1	<1	<1
Chloroethane		<1	<1	<1	<1	<1	<1
Methylene chloride		<1	<1	<1	<1	<1	<1
Trichlorofluoromethane		<2	<2	<2	<2	<2	<2
1,1-Dichloroethene		<1	<1	<1	<1	<1	<1
1,1-Dichloroethane		1	<1	<1	<1	<1	<1
1,2-Dichloroethene		1	<1	<1	<1	<1	<1
Chloroform		<1	<1	<1	<1	<1	<1
1,2-Dichloroethane		<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane		<1	<1	<1	<1	<1	<1
Carbon tetrachloride		<1	<1	<1	<1	<1	<1
Bromodichloromethane		<1	<1	<1	<1	<1	<1
1,2-Dichloropropane		<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<2	<2	<2	<2	<2	<2
Trichloroethene		<1	<1	<1	<1	<1	<1
Chlorodibromomethane		<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane		<2	<2	<2	<2	<2	<2
cis-1,3-Dichloropropene		<2	<2	<2	<2	<2	<2
2-Chloroethylvinylether		<2	<2	<2	<2	<2	<2
Bromoform		<2	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2
Tetrachloroethene		<1	<1	<1	<1	<1	<1
Chlorobenzene		1	1	2	<1	<1	<1
1,3-Dichlorobenzene		<2	<2	<2	<2	<2	<2
1,2-Dichlorobenzene		<2	<2	<2	<2	<2	4
1,4-Dichlorobenzene		3	<2	6	<2	<2	11
Benzene		1	<1	7	<1	<1	<1
Toluene		<2	<2	<2	<2	<2	<2
Ethyl benzene		<1	<1	<1	<1	<1	<1
m-Xylene		<2	<2	<2	<2	<2	<2
o+p-Xylene		<4	<4	<4	<4	<4	<4
Total VOCs		8	1	15	0	0	15

ug/L Micrograms per liter.

VOCs Volatile organic compounds.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 5. Sixth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	6F	7B	8A	8B	9B	9C
Sample Date:	7/8/93	7/7/93	7/7/93	7/7/93	7/8/93	7/9/93
Parameter (concentrations in ug/L)						
Chloromethane	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Methylene chloride	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	2	<1	<1	<1
1,2-Dichloroethene	<1	14	32	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	5	4	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
Trichloroethene	<1	2	14	7	<1	<1
Chlorodibromomethane	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<2
cis-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
2-Chloroethylvinylether	<2	<2	<2	<2	<2	<2
Bromoform	<2	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2	<2	<2
Tetrachloroethene	<1	75	270	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	1
1,3-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,2-Dichlorobenzene	<2	<2	<2	<2	<2	2
1,4-Dichlorobenzene	<2	<2	<2	<2	<2	8
Benzene	<1	<1	<1	<1	<1	2
Toluene	<2	<2	<2	<2	<2	<2
Ethyl benzene	<1	<1	<1	<1	<1	<1
m-Xylene	<2	<2	<2	<2	<2	<2
o+p-Xylene	<4	<4	<4	<4	<4	<4
Total VOCs	0	91	323	11	0	13

ug/L Micrograms per liter.

VOCs Volatile organic compounds.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 5. Sixth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	11A	11B	OBS-2 (a)	M-30B	Field Blank 1	Field Blank 2
Sample Date:	7/9/93	7/9/93	7/8/93	7/7/93	7/7/93	7/7/93
Parameter (concentrations in ug/L)						
Chloromethane	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Methylene chloride	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene	<1	<1	10	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
Trichloroethene	<1	<1	2	<1	<1	<1
Chlorodibromomethane	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<2
cis-1,3-Dichloropropene	<2	<2	<2	<2	<2	<2
2-Chloroethylvinylether	<2	<2	<2	<2	<2	<2
Bromoform	<2	<2	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2	<2	<2
Tetrachloroethene	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,2-Dichlorobenzene	<2	<2	<2	<2	<2	<2
1,4-Dichlorobenzene	<2	<2	<2	<2	<2	<2
Benzene	<1	<1	<1	<1	<1	<1
Toluene	<2	<2	<2	<2	<2	<2
Ethyl benzene	<1	<1	<1	<1	<1	<1
m-Xylene	<2	<2	<2	<2	<2	<2
o+p-Xylene	<4	<4	<4	<4	<4	<4
Total VOCs	0	0	12	0	0	0

ug/L Micrograms per liter.

VOCs Volatile organic compounds.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.

Table 5. Sixth (Operational) Quarter Results of Analyses for Volatile Organic Compounds in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Parameter (concentrations in ug/L)	Sample Designation: Trip Blank 1 Sample Date: 7/7/93	Trip Blank 2 7/8/93	Trip Blank 3 7/8/93	Trip Blank 4 7/9/93
Chloromethane	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1
Dichlorodifluoromethane	<2	<2	<2	<2
Vinyl chloride	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1
Methylene chloride	<1	<1	<1	<1
Trichlorofluoromethane	<2	<2	<2	<2
1,1-Dichloroethene	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1
1,2-Dichloroethene	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1
trans-1,3-Dichloropropene	<2	<2	<2	<2
Trichloroethene	<1	<1	<1	<1
Chlorodibromomethane	<1	<1	<1	<1
1,1,2-Trichloroethane	<2	<2	<2	<2
cis-1,3-Dichloropropene	<2	<2	<2	<2
2-Chloroethylvinylether	<2	<2	<2	<2
Bromoform	<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2
Tetrachloroethene	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1
1,3-Dichlorobenzene	<2	<2	<2	<2
1,2-Dichlorobenzene	<2	<2	<2	<2
1,4-Dichlorobenzene	<2	<2	<2	<2
Benzene	<1	<1	<1	<1
Toluene	<2	<2	<2	<2
Ethyl benzene	<1	<1	<1	<1
m-Xylene	<2	<2	<2	<2
o+p-Xylene	<4	<4	<4	<4
Total VOCs	0	0	0	0

ug/L Micrograms per liter.

VOCs Volatile organic compounds.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 6. Sixth (Operational) Quarter Results of Analyses for Dissolved (Filtered) Metals in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Parameter (concentrations in mg/L)	Sample Designation: Sample Date:	5B 7/7/93	6A 7/8/93	6B 7/8/93	6C 7/8/93	6C-Rep 7/8/93	6E 7/8/93
Iron		<0.05	<0.05	24	32	32	0.57
Barium		0.09	0.06	0.06	0.07	0.08	0.21
Aluminum		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Copper		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese		0.98	0.06	0.36	0.36	0.38	0.50
Nickel		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium		330	6.2	200	56	55	34
Zinc		<0.02	<0.02	<0.02	<0.02	<0.02	0.06
Chromium		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury		<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Potassium		92	1.3	98	31	34	14
Magnesium		24	3.2	13	12	13	11
Calcium		24	4.8	8.7	32	33	24

mg/L Milligrams per liter.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 6. Sixth (Operational) Quarter Results of Analyses for Dissolved (Filtered) Metals in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Sample Designation:	6F	7B	8A	8B	9B	9C
Sample Date:	7/8/93	7/7/93	7/7/93	7/7/93	7/9/93	7/9/93
Parameter (concentrations in mg/L)						
Iron	<0.05	<0.05	<0.05	0.78	<0.05	<0.05
Barium	0.09	0.06	0.07	0.29	0.09	0.06
Aluminum	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Copper	<0.02	<0.02	<0.02	<0.02	<0.02	0.03
Lead	<0.001	0.001	0.003	<0.02	<0.001	0.002
Manganese	<0.02	0.12	0.20	0.97	0.20	0.12
Nickel	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	40	16	8.9	34	11	230
Zinc	<0.02	0.03	<0.02	0.05	<0.02	<0.02
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Potassium	2.3	1.6	3.1	15	6.8	130
Magnesium	9.2	4.5	4.7	12	5.5	14
Calcium	19	7.8	13	34	7.4	6.5

mg/L Milligrams per liter.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 6. Sixth (Operational) Quarter Results of Analyses for Dissolved (Filtered) Metals in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Parameter (concentrations in mg/L)	Sample Designation: Sample Date:	11A 7/9/93	11B 7/9/93	LF-1 7/7/93	OBS-2 (a) 7/8/93	M-30B 7/7/93
Iron		<0.05	<0.05	1.4	<0.05	0.28
Barium		<0.05	<0.05	NA	<0.05	0.20
Aluminum		<0.20	<0.20	NA	<0.20	0.25
Copper		<0.02	<0.02	NA	<0.02	<0.02
Lead		0.001	<0.001	NA	0.003	<0.001
Manganese		<0.02	<0.02	15	<0.02	0.10
Nickel		<0.10	<0.10	NA	<0.10	<0.10
Sodium		4.9	3.7	46	5.4	26
Zinc		<0.02	<0.02	NA	0.02	<0.02
Chromium		<0.005	<0.005	NA	<0.005	<0.005
Mercury		<0.00025	<0.00025	NA	<0.00025	<0.00025
Potassium		0.74	0.61	19	1.4	2.7
Magnesium		1.2	0.75	NA	3.6	8.3
Calcium		1.8	1.4	15	3.3	13

mg/L Milligrams per liter.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 7. Sixth (Operational) Quarter Results of Analyses for Total (Unfiltered) Metals and Leachate Indicators in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Parameter (concentrations in mg/L)	Sample Designation: Sample Date:	5B 7/7/93	6A 7/8/93	6B 7/8/93	6C 7/8/92	6C-Rep 7/8/93	6E 7/8/93
Chloride		370	12	240	160	160	140
Ammonia		73	0.17	68	17	16	3.2
Iron		<0.05	0.06	24	33	33	0.53
Hardness		150	25	85	130	130	110
Alkalinity (total)		630	10	520	130	130	10
Phenols		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium		0.08	0.06	0.06	0.08	0.08	0.23
Aluminum		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Copper		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead		<0.001	0.003	0.001	<0.001	<0.001	0.002
Manganese		0.99	0.07	0.36	0.37	0.36	0.48
Nickel		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium		320	6.0	170	58	58	32
Zinc		<0.02	0.03	0.03	<0.02	<0.02	0.08
Chromium hex		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium		<0.005	<0.005	0.006	<0.005	<0.005	<0.005
Mercury		<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Potassium		90	1.3	120	33	33	14
Magnesium		23	3.3	16	12	11	11
Calcium		24	4.5	8.3	33	34	24
Total dissolved solids		1100	44	740	360	370	300
Nitrate		<0.5	4.4	<0.5	<0.5	<0.5	<0.5
Sulfate		59	<5	24	20	20	18
Carbonate alkalinity		0	0	0	0	0	0
Total kjeldahl		77	1.2	69	18	17	6.4
Nitrogen (total)		77	5.6	69	18	17	6.4
Bicarbonate		630	10	520	130	130	10
Cyanide		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

mg/L Milligrams per liter.

NA Not analyzed.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 7. Sixth (Operational) Quarter Results of Analyses for Total (Unfiltered) Metals and Leachate Indicators in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Parameter (concentrations in mg/L)	Sample Designation: Sample Date:	6F 7/8/93	7B 7/7/93	8A 7/7/93	8B 7/7/93	9B 7/9/93	9C 7/9/93
Chloride		130	41	24	140	19	310
Ammonia		<0.05	0.39	1.2	1.8	2.1	94
Iron		<0.05	0.51	<0.05	0.81	<0.05	<0.05
Hardness		81	37	52	140	41	74
Alkalinity (total)		4	6	18	2	4	600
Phenols		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium		0.09	0.05	0.07	0.29	0.09	0.06
Aluminum		<0.20	0.26	<0.20	<0.20	<0.20	<0.20
Copper		<0.02	<0.02	<0.02	<0.02	<0.02	0.03
Lead		<0.001	<0.001	0.002	<0.001	<0.001	0.002
Manganese		<0.02	0.12	0.20	0.98	0.20	0.13
Nickel		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium		45	13	9.0	34	11	220
Zinc		<0.02	0.03	<0.02	0.05	<0.02	<0.02
Chromium hex		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury		<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Potassium		2.2	1.6	3.2	15	6.8	130
Magnesium		7.8	4.9	4.7	12	5.5	14
Calcium		20	6.9	13	34	7.3	6.4
Total dissolved solids		260	58	79	330	85	860
Nitrate		0.6	2.7	1.1	<0.5	4.6	<0.5
Sulfate		<5	<5	23	34	32	17
Carbonate alkalinity		0	0	0	0	0	0
Total kjeldahl		1.8	1.0	2.4	2.4	3.4	100
Nitrogen (total)		2.4	3.7	3.5	2.4	8.0	100
Bicarbonate		4	6	18	2	4	600
Cyanide		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

mg/L Milligrams per liter.

NA Not analyzed.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.



Table 7. Sixth (Operational) Quarter Results of Analyses for Total (Unfiltered) Metals and Leachate Indicators in Groundwater Samples Collected from July 7 Through July 9, 1993, Old Bethpage Landfill, Old Bethpage, New York.

Parameter (concentrations in mg/L)	Sample Designation: Sample Date:	11A 7/9/93	11B 7/9/93	OBS-2 (a) 7/8/93	M-30B 7/7/93	LF-1 7/7/93
Chloride		10	8	14	57	120
Ammonia		<0.05	<0.05	<0.05	<0.05	12
Iron		<0.05	<0.05	0.13	120	1.5
Hardness		9.6	6.6	23	70	110
Alkalinity (total)		2	2	2	2	130
Phenols		<0.001	<0.001	<0.001	<0.001	NA
Barium		<0.05	<0.05	0.05	2.1	NA
Aluminum		<0.20	<0.20	<0.20	86	NA
Copper		<0.02	<0.02	<0.02	0.06	NA
Lead		0.001	<0.001	0.004	0.066	NA
Manganese		<0.02	<0.02	<0.02	2.1	15
Nickel		<0.10	<0.10	<0.10	<0.10	NA
Sodium		4.7	3.9	4.9	20	48
Zinc		<0.02	<0.02	0.03	0.12	NA
Chromium hex		<0.02	<0.02	<0.02	<0.02	NA
Chromium		<0.005	<0.005	<0.005	0.081	NA
Mercury		<0.00025	<0.00025	<0.00025	0.0011	NA
Potassium		0.74	0.62	1.5	6.9	19
Magnesium		1.2	0.74	4.0	10	NA
Calcium		1.9	1.4	2.6	11	15
Total dissolved solids		12	13	24	140	280
Nitrate		2.9	1.8	2.7	3.3	<0.5
Sulfate		<5	<5	<5	32	43
Carbonate alkalinity		0	0	0	0	0
Total kjeldahl		1.2	1.4	2.2	1.2	14
Nitrogen (total)		4.1	3.2	4.9	4.5	NA
Bicarbonate		2	2	2	2	130
Cyanide		<0.02	<0.02	<0.02	<0.02	NA

mg/L Milligrams per liter.

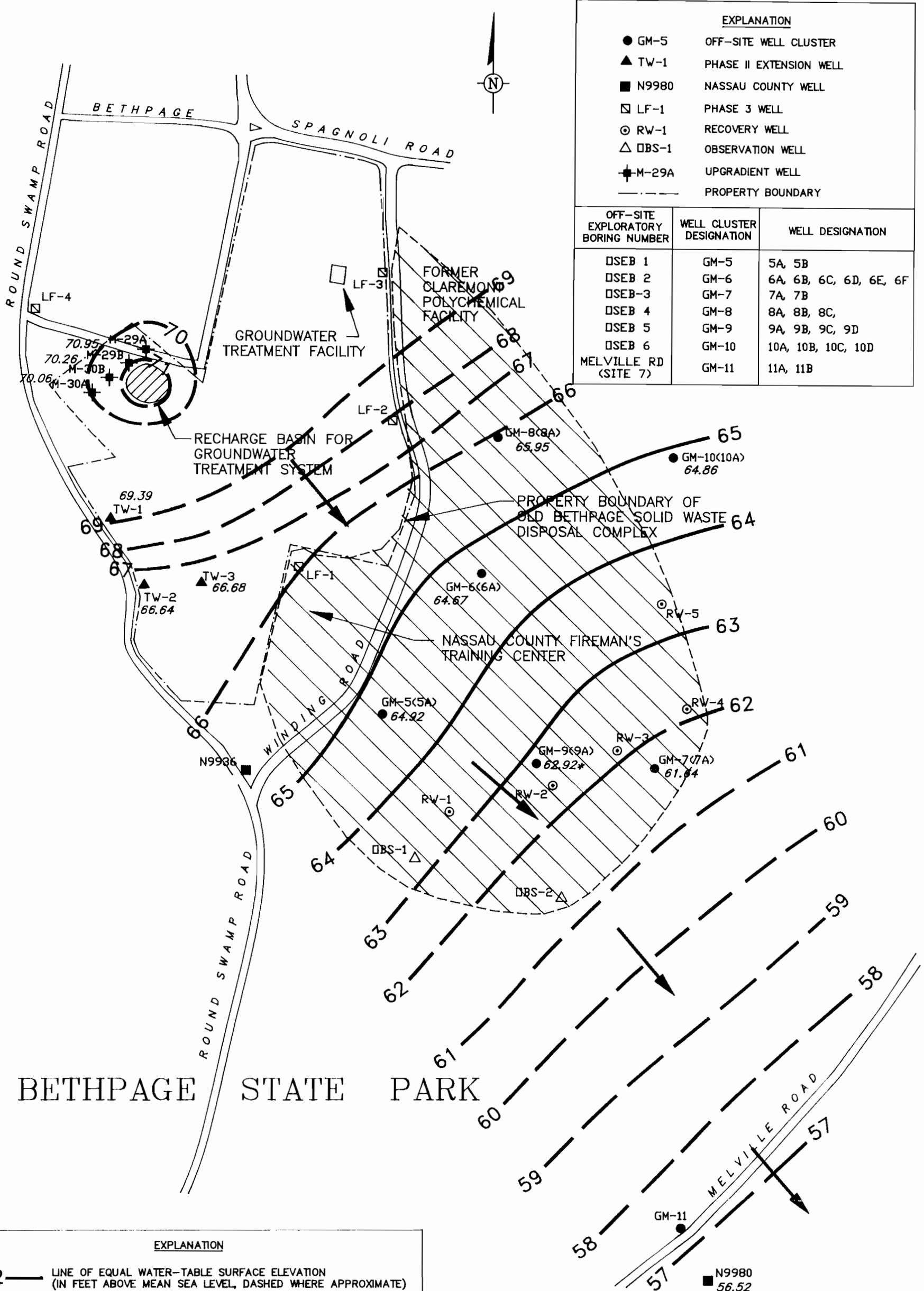
NA Not analyzed.

Rep Replicate sample.

(a) Well OBS-2 was sampled as a replacement for Well OBS-1. Well OBS-1 is damaged.

All analyses performed by EcoTest Laboratories, North Babylon, New York.





EXPLANATION		
● GM-5	OFF-SITE WELL CLUSTER	
▲ TW-1	PHASE II EXTENSION WELL	
■ N9980	NASSAU COUNTY WELL	
□ LF-1	PHASE 3 WELL	
⊙ RW-1	RECOVERY WELL	
△ OBS-1	OBSERVATION WELL	
⊕ M-29A	UPGRADIENT WELL	
---	PROPERTY BOUNDARY	

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
DSEB 1	GM-5	5A, 5B
DSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
DSEB 3	GM-7	7A, 7B
DSEB 4	GM-8	8A, 8B, 8C,
DSEB 5	GM-9	9A, 9B, 9C, 9D
DSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

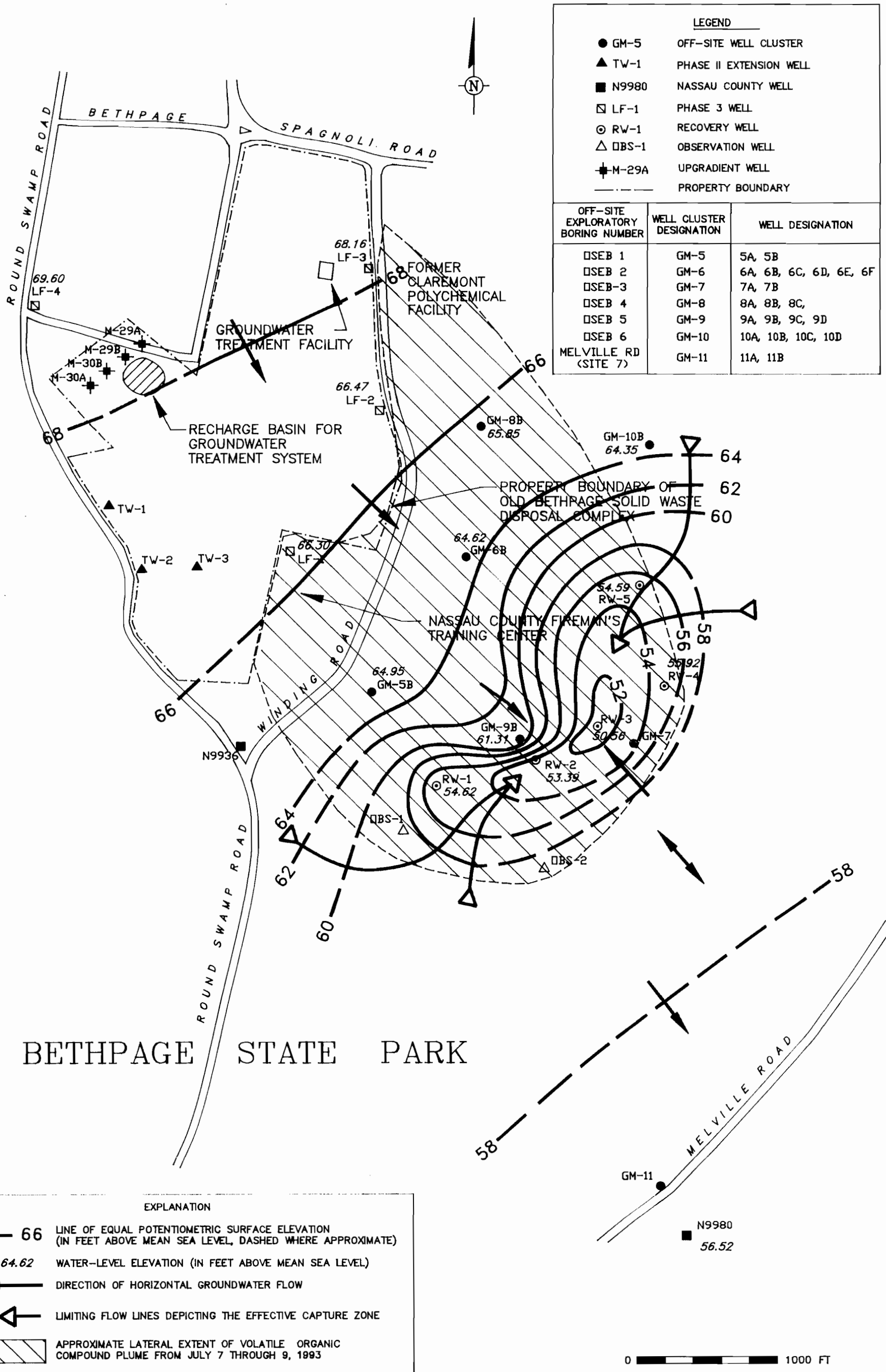
EXPLANATION	
62 —	LINE OF EQUAL WATER-TABLE SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
64.67	WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
←	DIRECTION OF HORIZONTAL GROUNDWATER FLOW
▨	APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993
*	WELL SCREEN IS APPARENTLY DAMAGED. GRAVEL PACK HAS ENTERED THE WELL.

0 1000 FT



**CONFIGURATION OF THE WATER-TABLE SURFACE ON JULY 6, 1993
IN THE VICINITY OF THE OLD BETHPAGE LANDFILL
OLD BETHPAGE, NEW YORK**

LOCKWOOD, KESSLER, & BARTLETT, INC.
AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK



LEGEND

- GM-5 OFF-SITE WELL CLUSTER
- ▲ TW-1 PHASE II EXTENSION WELL
- N9980 NASSAU COUNTY WELL
- LF-1 PHASE 3 WELL
- ⊙ RW-1 RECOVERY WELL
- △ OBS-1 OBSERVATION WELL
- ⊕ M-29A UPGRADIENT WELL
- PROPERTY BOUNDARY

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
DSEB 1	GM-5	5A, 5B
DSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
DSEB 3	GM-7	7A, 7B
DSEB 4	GM-8	8A, 8B, 8C,
DSEB 5	GM-9	9A, 9B, 9C, 9D
DSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

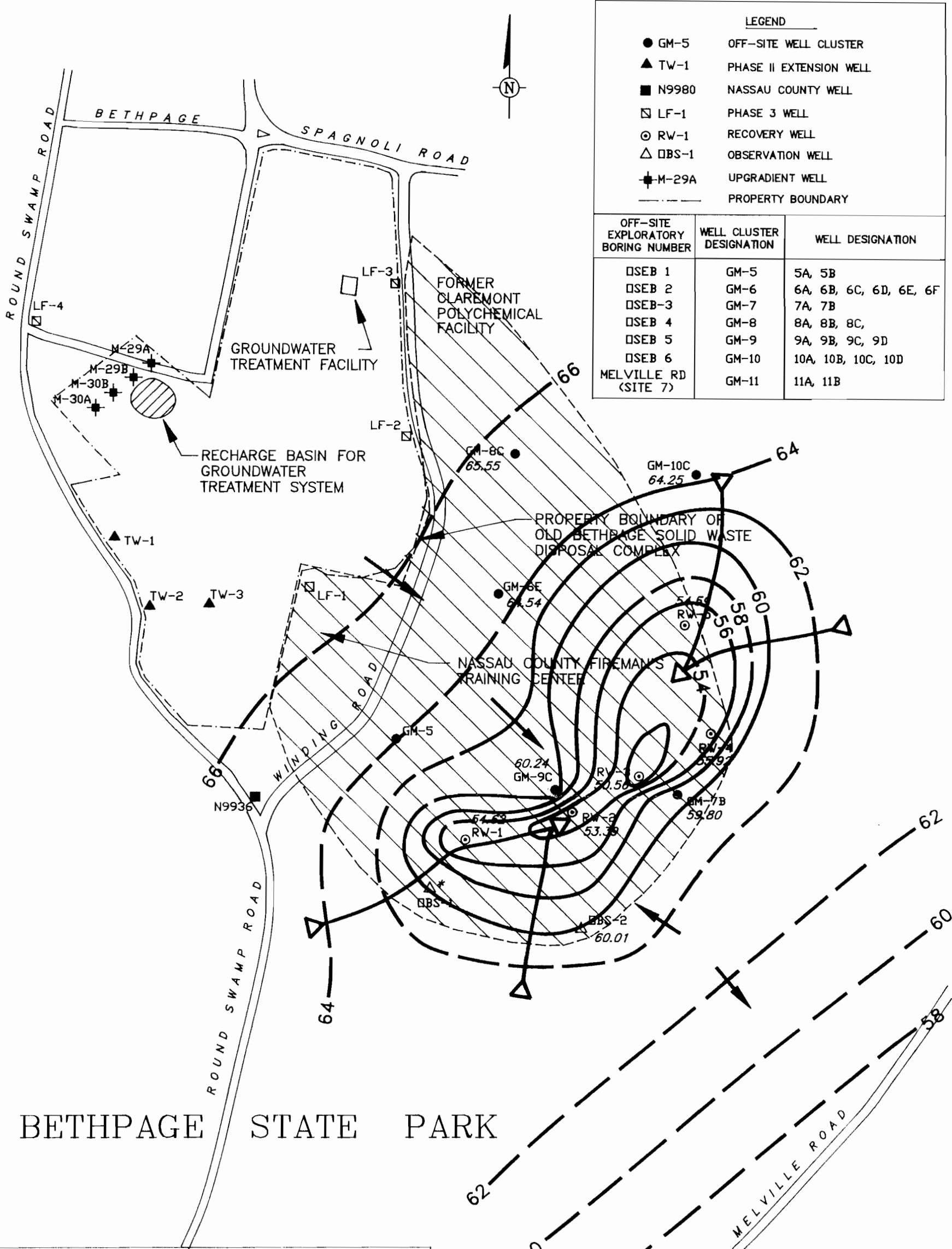
EXPLANATION

- 66 LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
- 64.62 WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF HORIZONTAL GROUNDWATER FLOW
- △ LIMITING FLOW LINES DEPICTING THE EFFECTIVE CAPTURE ZONE
- ▨ APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993



CONFIGURATION OF THE SHALLOW POTENTIOMETRIC SURFACE ON JULY 6, 1993 IN THE VICINITY OF THE OLD BETHPAGE LANDFILL, OLD BETHPAGE, NEW YORK

LOCKWOOD, KESSLER, & BARTLETT, INC.
AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK



LEGEND		
● GM-5	OFF-SITE WELL CLUSTER	
▲ TW-1	PHASE II EXTENSION WELL	
■ N9980	NASSAU COUNTY WELL	
□ LF-1	PHASE 3 WELL	
⊙ RW-1	RECOVERY WELL	
△ OBS-1	OBSERVATION WELL	
⊕ M-29A	UPGRADIENT WELL	
---	PROPERTY BOUNDARY	

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
OSEB 1	GM-5	5A, 5B
OSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
OSEB-3	GM-7	7A, 7B
OSEB 4	GM-8	8A, 8B, 8C,
OSEB 5	GM-9	9A, 9B, 9C, 9D
OSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

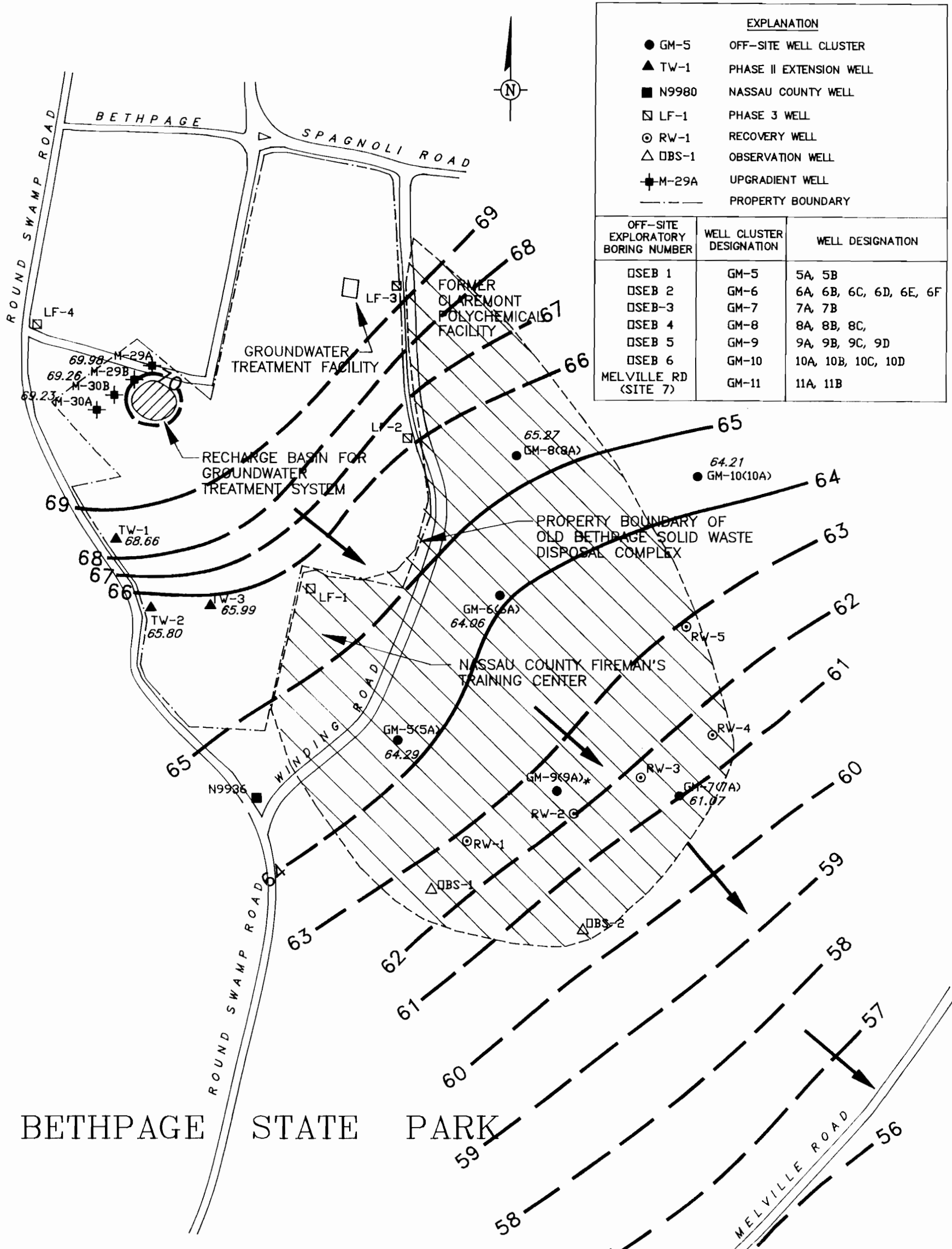
EXPLANATION	
— 66	LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
64.54	WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
→	DIRECTION OF HORIZONTAL GROUNDWATER FLOW
⊕	LIMITING FLOW LINES DEPICTING THE EFFECTIVE CAPTURE ZONE
▨	APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993
*	WELL DAMAGED; WATER-LEVEL NOT MEASURED

0 1000 FT



CONFIGURATION OF THE DEEP POTENTIOMETRIC SURFACE ON JULY 6, 1993 IN THE VICINITY OF THE OLD BETHPAGE LANDFILL, OLD BETHPAGE, NEW YORK

LOCKWOOD, KESSLER, & BARTLETT, INC. AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK



EXPLANATION		
● GM-5	OFF-SITE WELL CLUSTER	
▲ TW-1	PHASE II EXTENSION WELL	
■ N9980	NASSAU COUNTY WELL	
□ LF-1	PHASE 3 WELL	
⊙ RW-1	RECOVERY WELL	
△ OBS-1	OBSERVATION WELL	
⊕ M-29A	UPGRADIENT WELL	
---	PROPERTY BOUNDARY	

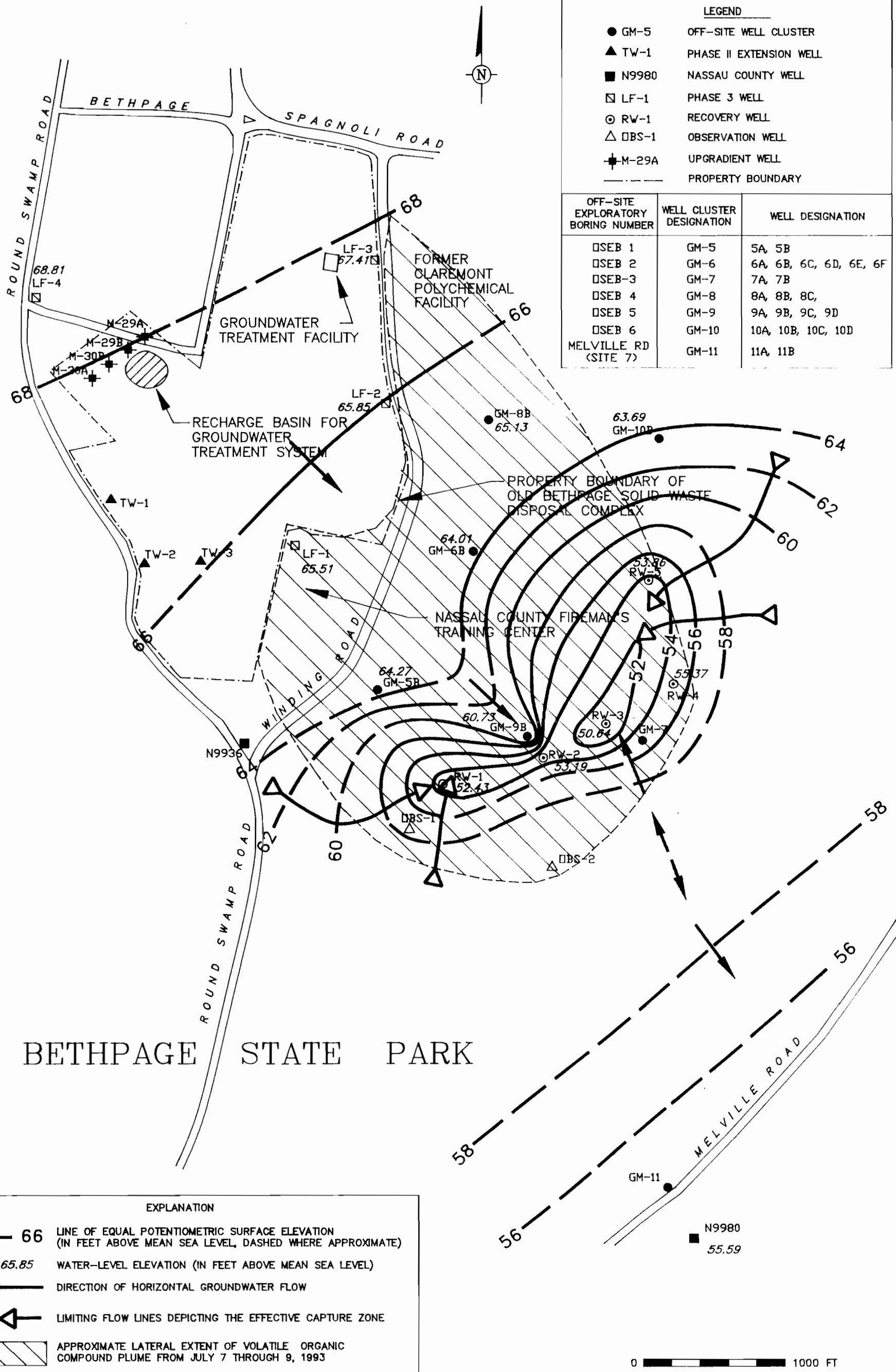
OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
OSEB 1	GM-5	5A, 5B
OSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
OSEB 3	GM-7	7A, 7B
OSEB 4	GM-8	8A, 8B, 8C,
OSEB 5	GM-9	9A, 9B, 9C, 9D
OSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

EXPLANATION	
62	LINE OF EQUAL WATER-TABLE SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
64.06	WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
←	DIRECTION OF HORIZONTAL GROUNDWATER FLOW
▨	APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993
*	WELL SCREEN IS APPARENTLY DAMAGED. GRAVEL PACK HAS ENTERED THE WELL.



**CONFIGURATION OF THE WATER-TABLE SURFACE ON AUGUST 3, 1993
IN THE VICINITY OF THE OLD BETHPAGE LANDFILL
OLD BETHPAGE, NEW YORK**

LOCKWOOD, KESSLER, & BARTLETT, INC.
AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK



EXPLANATION	
	66 LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
	65.85 WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
	DIRECTION OF HORIZONTAL GROUNDWATER FLOW
	LIMITING FLOW LINES DEPICTING THE EFFECTIVE CAPTURE ZONE
	APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993

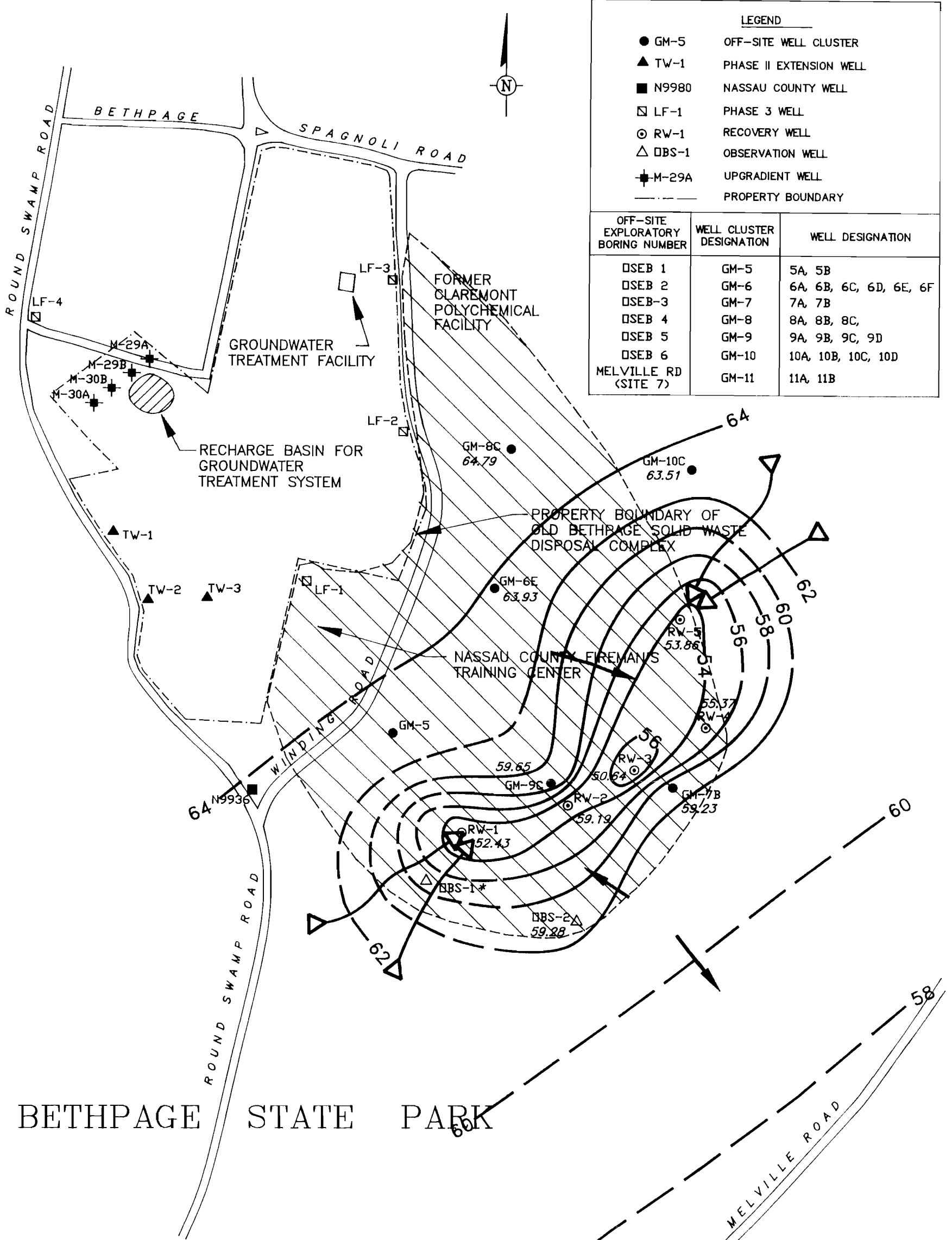
0 1000 FT



CONFIGURATION OF THE SHALLOW POTENTIOMETRIC SURFACE ON AUGUST 3, 1993 IN THE VICINITY OF THE OLD BETHPAGE LANDFILL, OLD BETHPAGE, NEW YORK

LOCKWOOD, KESSLER, & BARTLETT, INC.
AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK

FIGURE
5



LEGEND		
● GM-5	OFF-SITE WELL CLUSTER	
▲ TW-1	PHASE II EXTENSION WELL	
■ N9980	NASSAU COUNTY WELL	
□ LF-1	PHASE 3 WELL	
⊙ RW-1	RECOVERY WELL	
△ OBS-1	OBSERVATION WELL	
⊕ M-29A	UPGRADIENT WELL	
---	PROPERTY BOUNDARY	

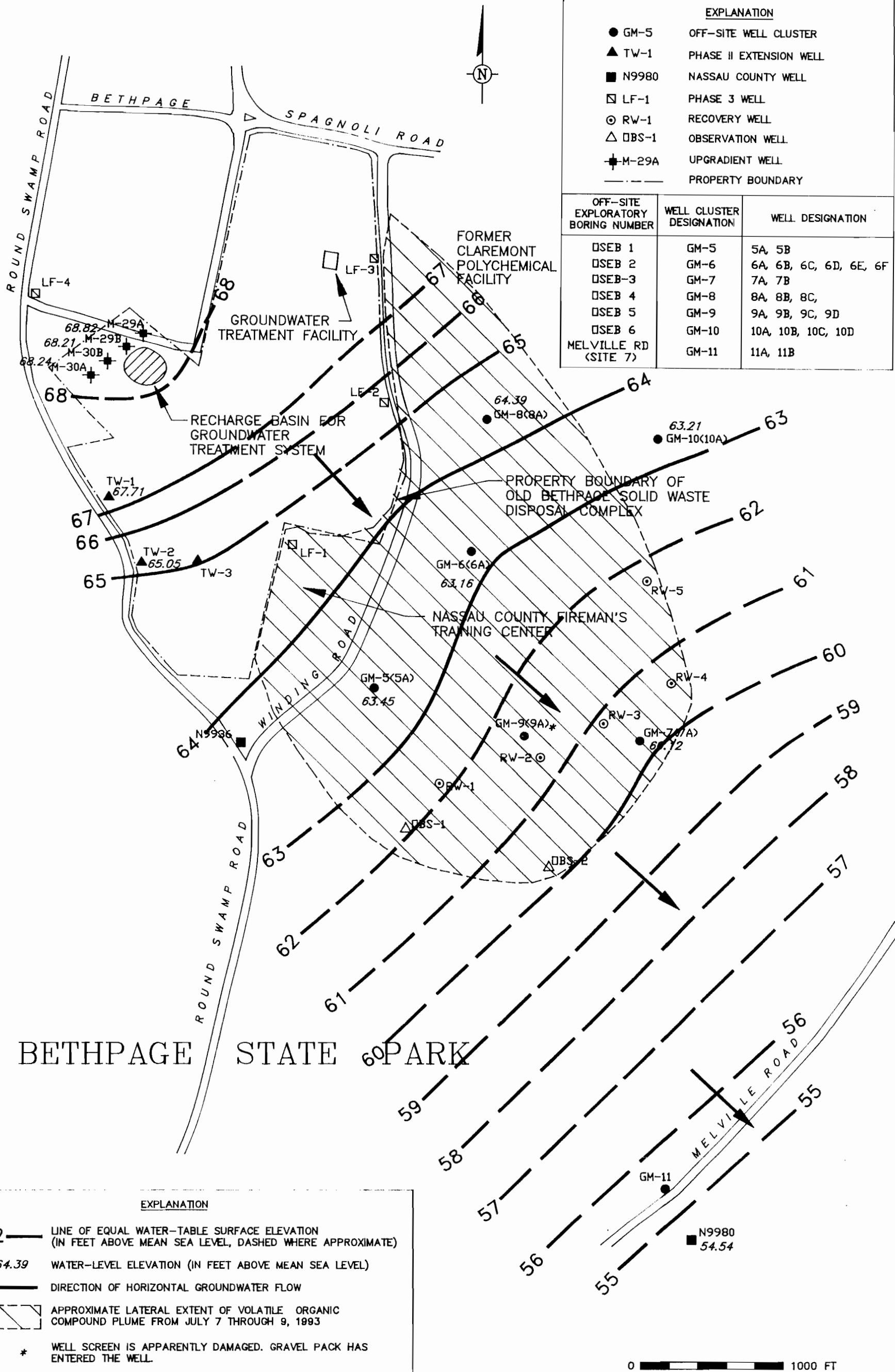
OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
DSEB 1	GM-5	5A, 5B
DSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
DSEB 3	GM-7	7A, 7B
DSEB 4	GM-8	8A, 8B, 8C,
DSEB 5	GM-9	9A, 9B, 9C, 9D
DSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

EXPLANATION	
— 64	LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
64.79	WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
→	DIRECTION OF HORIZONTAL GROUNDWATER FLOW
⊕	LIMITING FLOW LINES DEPICTING THE EFFECTIVE CAPTURE ZONE
▨	APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993
*	WELL DAMAGED; WATER-LEVEL NOT MEASURED



CONFIGURATION OF THE DEEP POTENTIOMETRIC SURFACE ON AUGUST 3, 1993 IN THE VICINITY OF THE OLD BETHPAGE LANDFILL, OLD BETHPAGE, NEW YORK

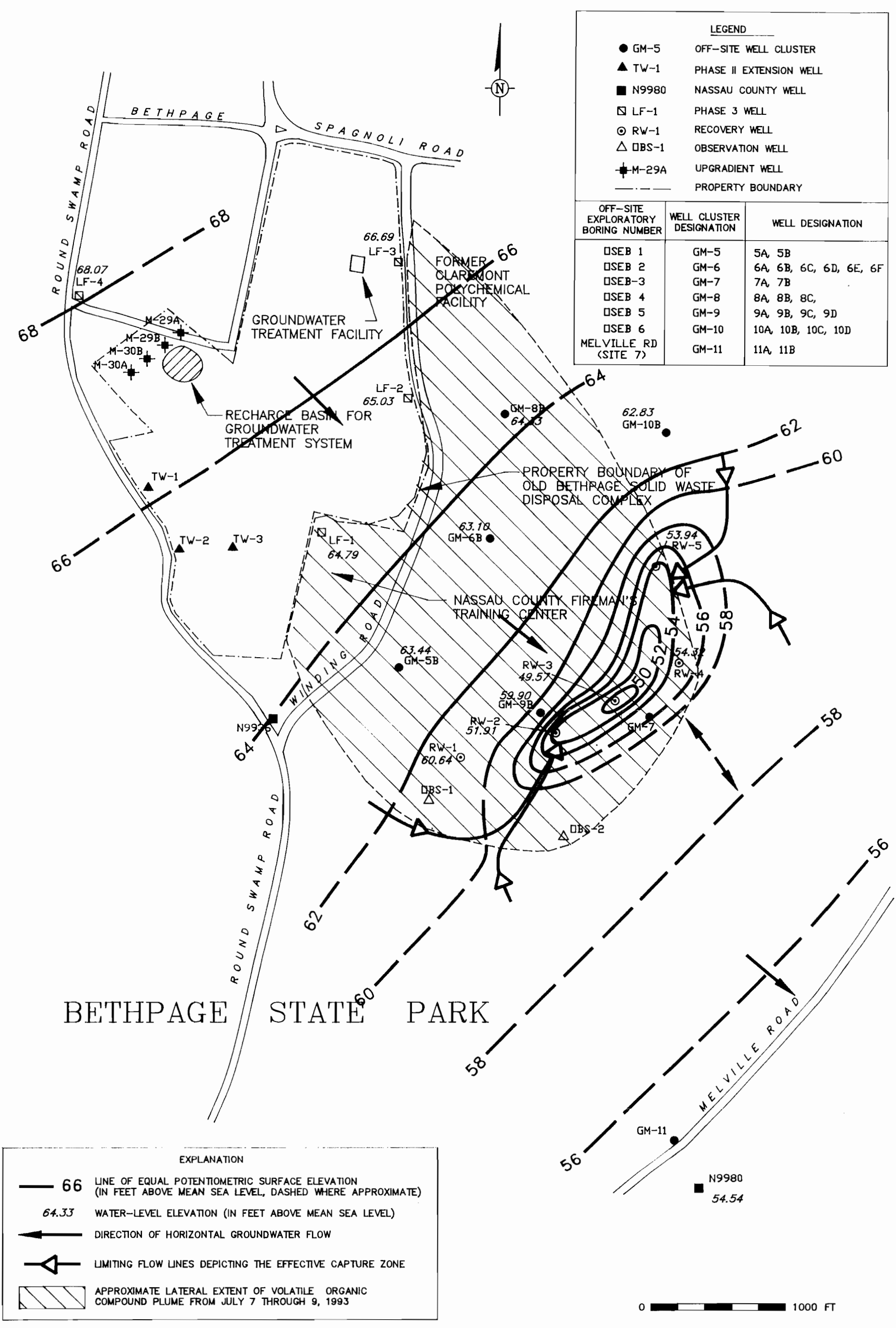
LOCKWOOD, KESSLER, & BARTLETT, INC.
AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK



EXPLANATION		
● GM-5	OFF-SITE WELL CLUSTER	
▲ TW-1	PHASE II EXTENSION WELL	
■ N9980	NASSAU COUNTY WELL	
□ LF-1	PHASE 3 WELL	
⊙ RW-1	RECOVERY WELL	
△ OBS-1	OBSERVATION WELL	
⊕ M-29A	UPGRADIENT WELL	
---	PROPERTY BOUNDARY	

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
DSEB 1	GM-5	5A, 5B
DSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
DSEB 3	GM-7	7A, 7B
DSEB 4	GM-8	8A, 8B, 8C,
DSEB 5	GM-9	9A, 9B, 9C, 9D
DSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

EXPLANATION	
62 —	LINE OF EQUAL WATER-TABLE SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
64.39	WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
←	DIRECTION OF HORIZONTAL GROUNDWATER FLOW
▨	APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993
*	WELL SCREEN IS APPARENTLY DAMAGED. GRAVEL PACK HAS ENTERED THE WELL.



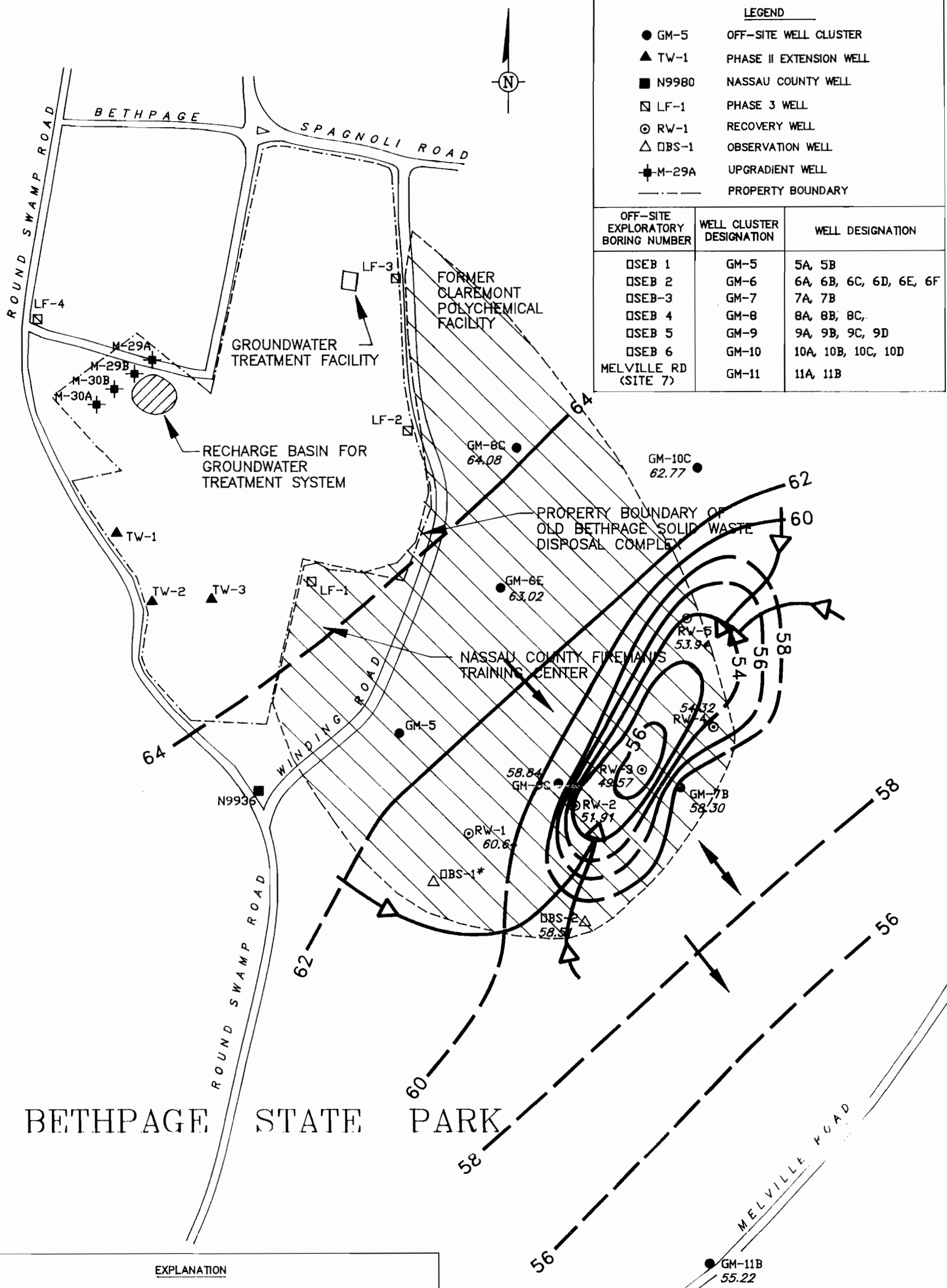
LEGEND

- GM-5 OFF-SITE WELL CLUSTER
- ▲ TW-1 PHASE II EXTENSION WELL
- N9980 NASSAU COUNTY WELL
- LF-1 PHASE 3 WELL
- ⊙ RW-1 RECOVERY WELL
- △ OBS-1 OBSERVATION WELL
- ⊕ M-29A UPGRADIENT WELL
- PROPERTY BOUNDARY

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
OSEB 1	GM-5	5A, 5B
OSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
OSEB 3	GM-7	7A, 7B
OSEB 4	GM-8	8A, 8B, 8C,
OSEB 5	GM-9	9A, 9B, 9C, 9D
OSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

EXPLANATION

- 66 LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
- 64.33 WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF HORIZONTAL GROUNDWATER FLOW
- △ LIMITING FLOW LINES DEPICTING THE EFFECTIVE CAPTURE ZONE
- ▨ APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993



LEGEND

- GM-5 OFF-SITE WELL CLUSTER
- ▲ TW-1 PHASE II EXTENSION WELL
- N9980 NASSAU COUNTY WELL
- LF-1 PHASE 3 WELL
- ⊙ RW-1 RECOVERY WELL
- △ OBS-1 OBSERVATION WELL
- ⊕ M-29A UPGRADIENT WELL
- PROPERTY BOUNDARY

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
OSEB 1	GM-5	5A, 5B
OSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
OSEB 3	GM-7	7A, 7B
OSEB 4	GM-8	8A, 8B, 8C,
OSEB 5	GM-9	9A, 9B, 9C, 9D
OSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

EXPLANATION

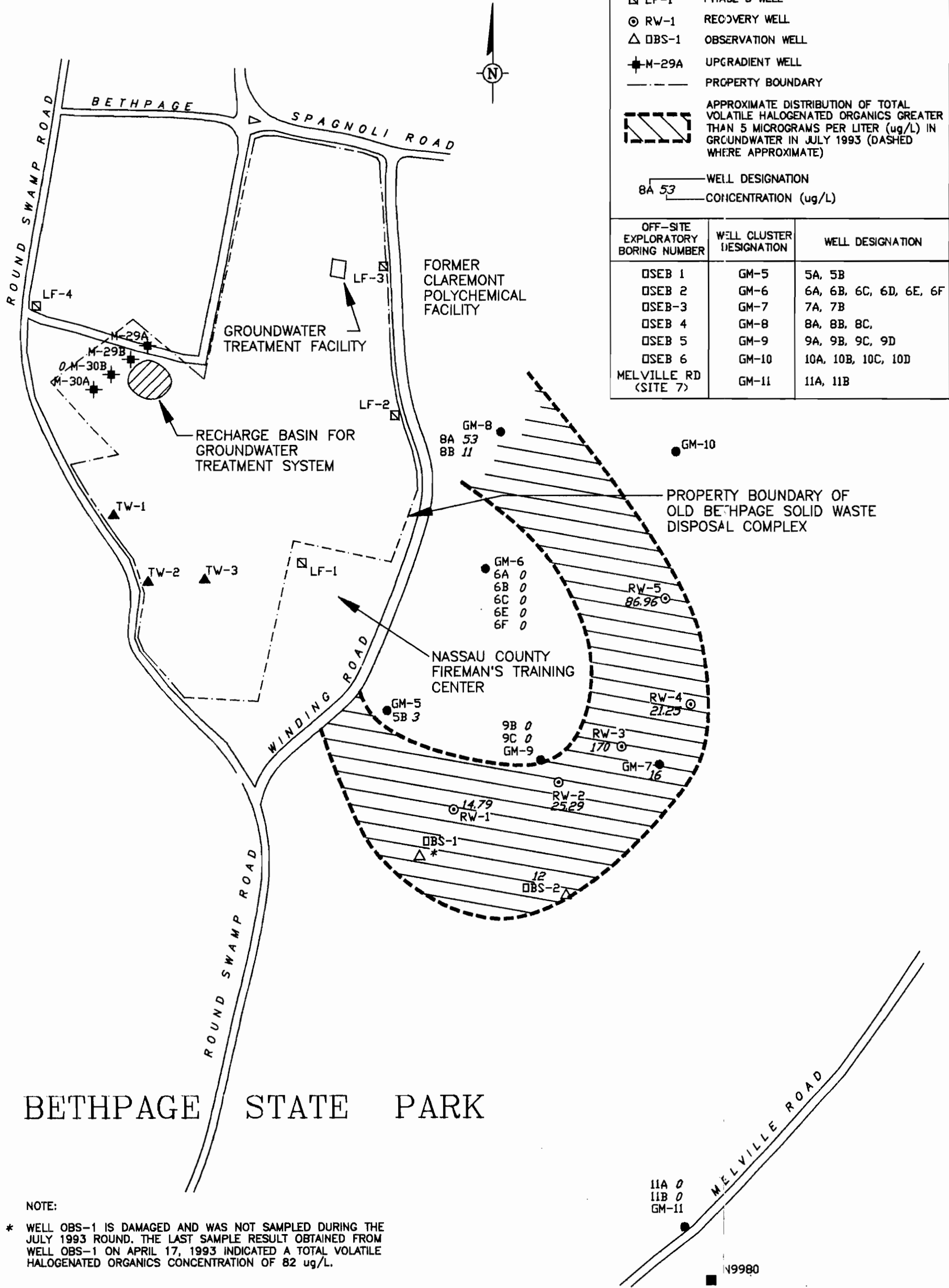
- 64 LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL, DASHED WHERE APPROXIMATE)
- 64.08 WATER-LEVEL ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF HORIZONTAL GROUNDWATER FLOW
- ⊕ LIMITING FLOW LINES DEPICTING THE EFFECTIVE CAPTURE ZONE
- ▨ APPROXIMATE LATERAL EXTENT OF VOLATILE ORGANIC COMPOUND PLUME FROM JULY 7 THROUGH 9, 1993
- * WELL DAMAGED; WATER-LEVEL NOT MEASURED

0 1000 FT



CONFIGURATION OF THE DEEP POTENTIOMETRIC SURFACE ON SEPTEMBER 13, 1993 IN THE VICINITY OF THE OLD BETHPAGE LANDFILL, OLD BETHPAGE, NEW YORK

LOCKWOOD, KESSLER, & BARTLETT, INC.
AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK



EXPLANATION

- GM-5 OFF-SITE WELL CLUSTER
- ▲ TW-1 PHASE II EXTENSION WELL
- N9980 NASSAU COUNTY WELL
- LF-1 PHASE 3 WELL
- RW-1 RECOVERY WELL
- △ OBS-1 OBSERVATION WELL
- ⊕ M-29A UPGRADIENT WELL
- PROPERTY BOUNDARY
- APPROXIMATE DISTRIBUTION OF TOTAL VOLATILE HALOGENATED ORGANICS GREATER THAN 5 MICROGRAMS PER LITER (ug/L) IN GROUNDWATER IN JULY 1993 (DASHED WHERE APPROXIMATE)
- WELL DESIGNATION
- BA 53 CONCENTRATION (ug/L)

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
OSEB 1	GM-5	5A, 5B
OSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
OSEB 3	GM-7	7A, 7B
OSEB 4	GM-8	8A, 8B, 8C,
OSEB 5	GM-9	9A, 9B, 9C, 9D
OSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

NOTE:
 * WELL OBS-1 IS DAMAGED AND WAS NOT SAMPLED DURING THE JULY 1993 ROUND. THE LAST SAMPLE RESULT OBTAINED FROM WELL OBS-1 ON APRIL 17, 1993 INDICATED A TOTAL VOLATILE HALOGENATED ORGANICS CONCENTRATION OF 82 ug/L.

0 1000 FT



APPROXIMATE EXTENT AND DISTRIBUTION OF TOTAL VOLATILE HALOGENATED ORGANICS IN GROUNDWATER IN JULY 1993, OLD BETHPAGE LANDFILL, OLD BETHPAGE, NEW YORK

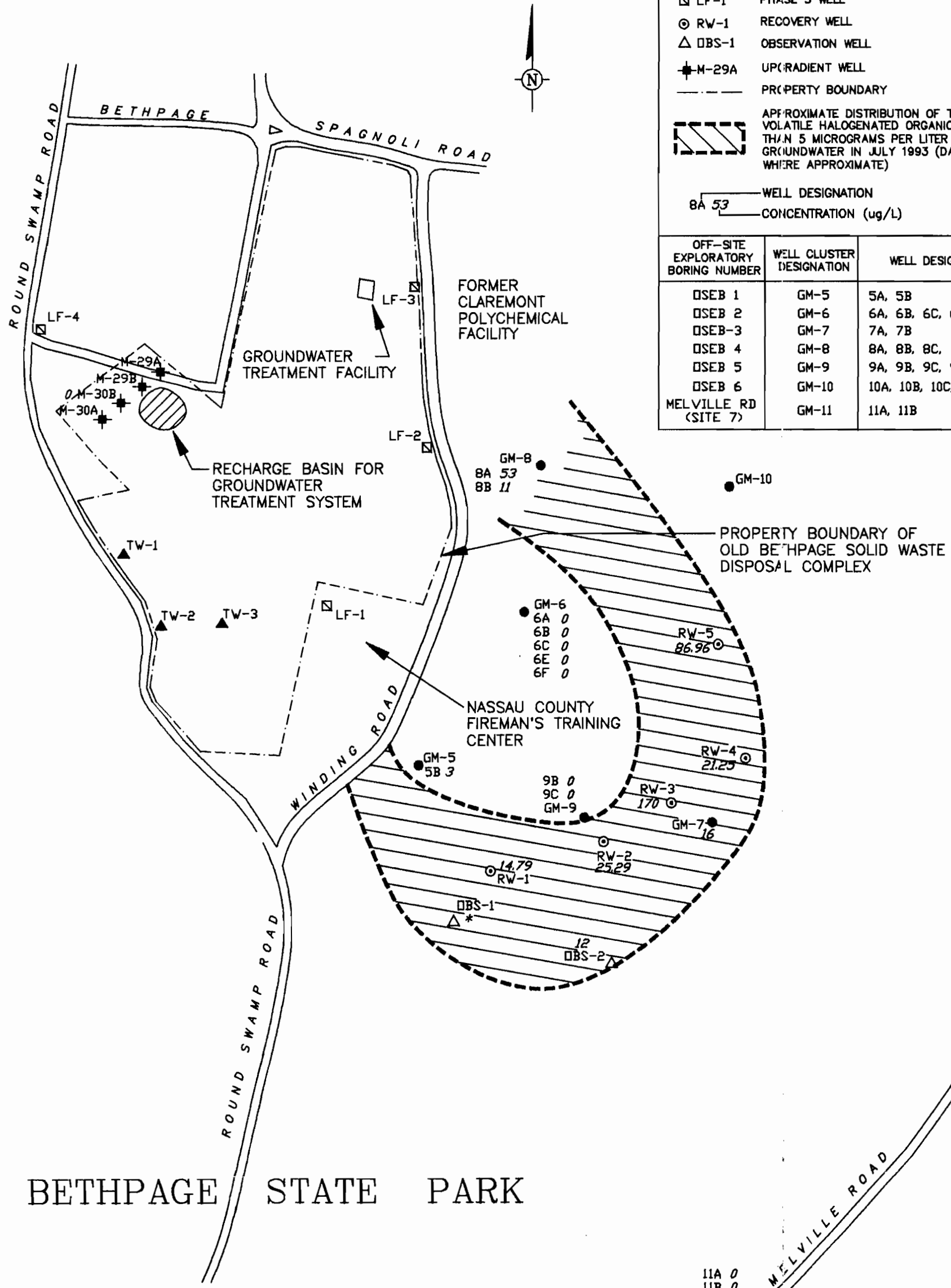
FIGURE
10

LOCKWOOD, KESSLER, & BARTLETT, INC.
 AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK

EXPLANATION

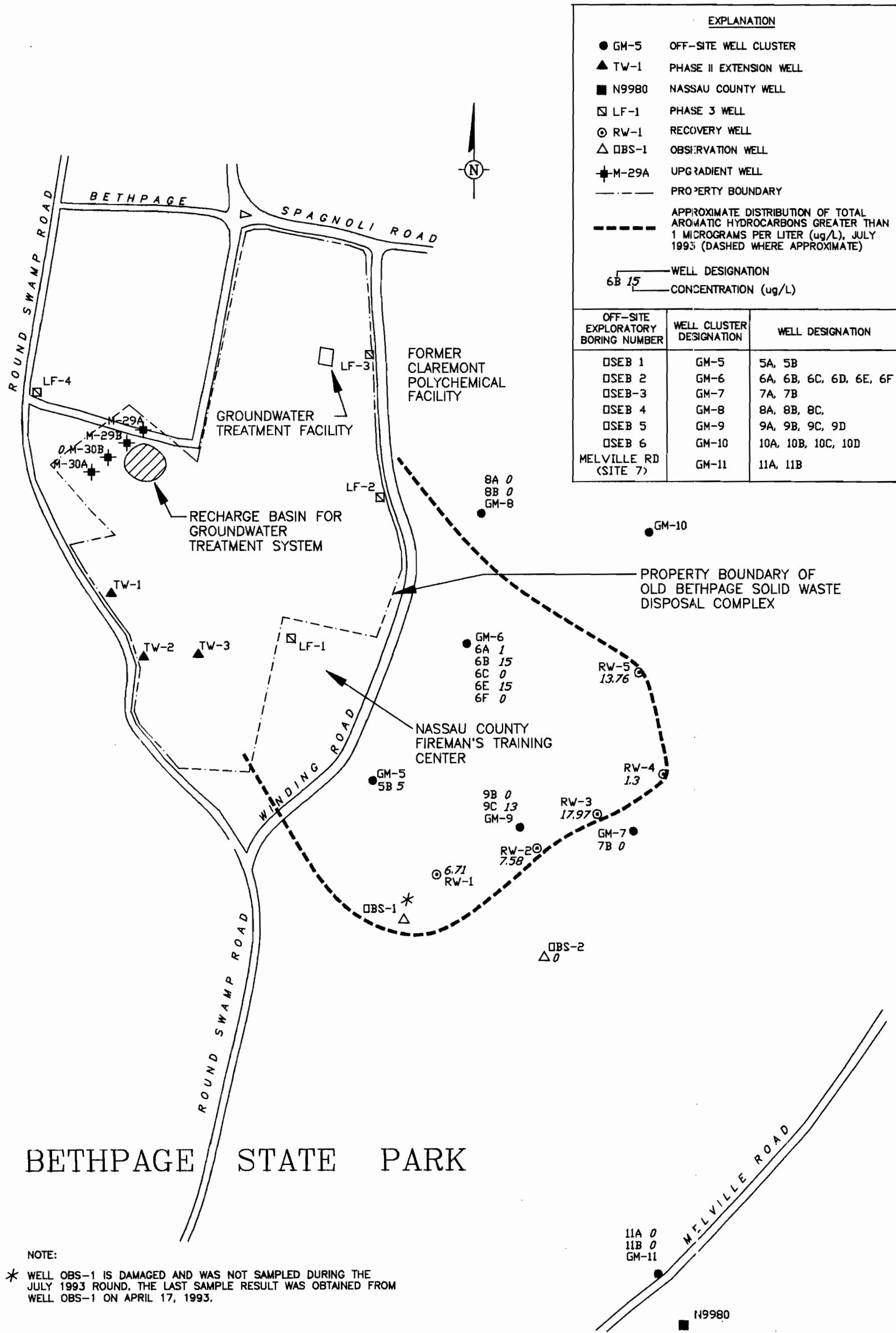
- GM-5 OFF-SITE WELL CLUSTER
- ▲ TW-1 PHASE II EXTENSION WELL
- N9980 NASSAU COUNTY WELL
- LF-1 PHASE 3 WELL
- RW-1 RECOVERY WELL
- △ OBS-1 OBSERVATION WELL
- ⊕ M-29A UPGRADIENT WELL
- PROPERTY BOUNDARY
- APPROXIMATE DISTRIBUTION OF TOTAL VOLATILE HALOGENATED ORGANICS GREATER THAN 5 MICROGRAMS PER LITER (ug/L) IN GROUNDWATER IN JULY 1993 (DASHED WHERE APPROXIMATE)
- WELL DESIGNATION
- BA 53 CONCENTRATION (ug/L)

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
OSEB 1	GM-5	5A, 5B
OSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
OSEB-3	GM-7	7A, 7B
OSEB 4	GM-8	8A, 8B, 8C,
OSEB 5	GM-9	9A, 9B, 9C, 9D
OSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B



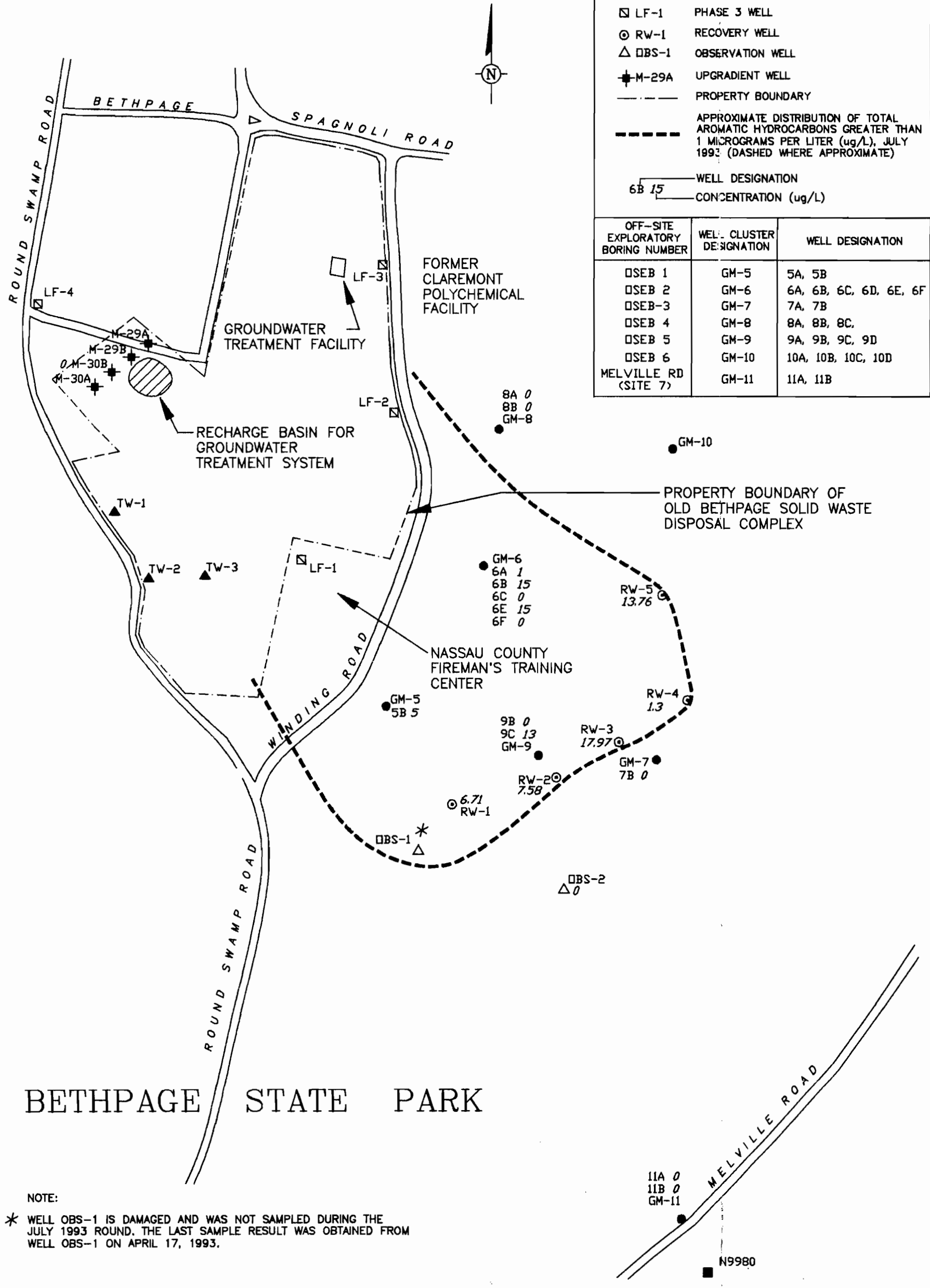
NOTE:
 * WELL OBS-1 IS DAMAGED AND WAS NOT SAMPLED DURING THE JULY 1993 ROUND. THE LAST SAMPLE RESULT OBTAINED FROM WELL OBS-1 ON APRIL 17, 1993 INDICATED A TOTAL VOLATILE HALOGENATED ORGANICS CONCENTRATION OF 82 ug/L.

0 1000 FT



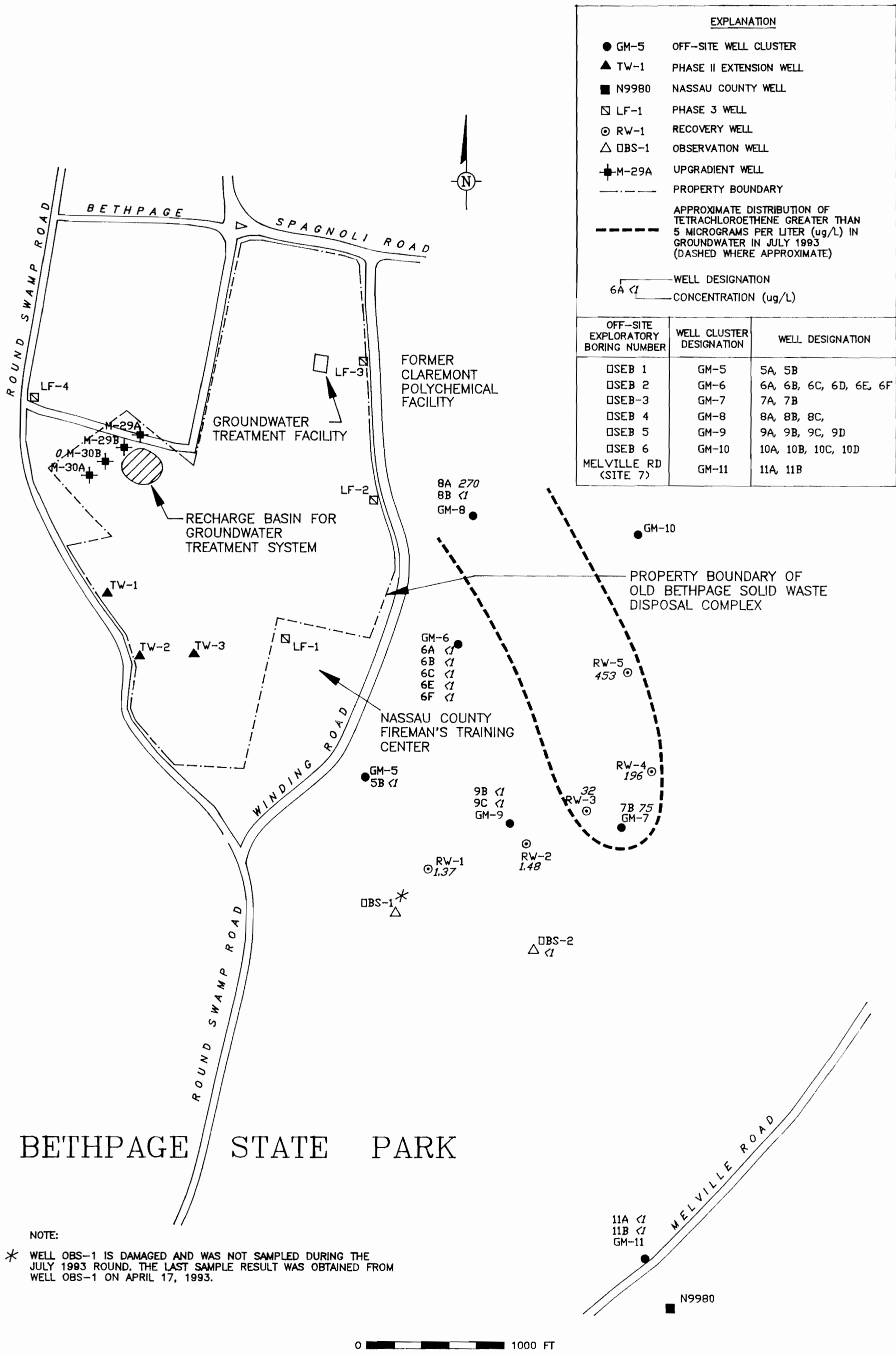
NOTE:
 * WELL OBS-1 IS DAMAGED AND WAS NOT SAMPLED DURING THE JULY 1993 ROUND. THE LAST SAMPLE RESULT WAS OBTAINED FROM WELL OBS-1 ON APRIL 17, 1993.

0 1000 FT



NOTE:
 * WELL OBS-1 IS DAMAGED AND WAS NOT SAMPLED DURING THE JULY 1993 ROUND. THE LAST SAMPLE RESULT WAS OBTAINED FROM WELL OBS-1 ON APRIL 17, 1993.

0 1000 FT



EXPLANATION

- GM-5 OFF-SITE WELL CLUSTER
- ▲ TW-1 PHASE II EXTENSION WELL
- N9980 NASSAU COUNTY WELL
- LF-1 PHASE 3 WELL
- ⊙ RW-1 RECOVERY WELL
- △ OBS-1 OBSERVATION WELL
- ⊕ M-29A UPGRADIENT WELL
- PROPERTY BOUNDARY
- APPROXIMATE DISTRIBUTION OF TETRACHLOROETHENE GREATER THAN 5 MICROGRAMS PER LITER (ug/L) IN GROUNDWATER IN JULY 1993 (DASHED WHERE APPROXIMATE)
- 6A <1 WELL DESIGNATION
- <1 CONCENTRATION (ug/L)

OFF-SITE EXPLORATORY BORING NUMBER	WELL CLUSTER DESIGNATION	WELL DESIGNATION
OSEB 1	GM-5	5A, 5B
OSEB 2	GM-6	6A, 6B, 6C, 6D, 6E, 6F
OSEB 3	GM-7	7A, 7B
OSEB 4	GM-8	8A, 8B, 8C,
OSEB 5	GM-9	9A, 9B, 9C, 9D
OSEB 6	GM-10	10A, 10B, 10C, 10D
MELVILLE RD (SITE 7)	GM-11	11A, 11B

NOTE:
 * WELL OBS-1 IS DAMAGED AND WAS NOT SAMPLED DURING THE JULY 1993 ROUND. THE LAST SAMPLE RESULT WAS OBTAINED FROM WELL OBS-1 ON APRIL 17, 1993.

0 1000 FT



APPROXIMATE EXTENT AND DISTRIBUTION OF TETRACHLOROETHENE IN GROUNDWATER IN JULY 1993, OLD BETHPAGE LANDFILL, OLD BETHPAGE, NEW YORK

LOCKWOOD, KESSLER, & BARTLETT, INC.
 AND THE TOWN OF OYSTER BAY, OLD BETHPAGE, NEW YORK

APPENDIX A

LABORATORY DATA REPORTS



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

LAB NO. C932842/5

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 8B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	140
Ammonia as N	mg/L	1.8
Iron as Fe	mg/L	0.81
Hardness as CaCO ₃	mg/L	140
Alkalinity tot CaCO ₃	mg/L	2
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.29
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.98
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	34
Zinc as Zn	mg/L	0.05
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	15
Magnesium as Mg	mg/L	12
Calcium as Ca	mg/L	34
Tot Dissolved Solids	mg/L	330
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	34
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	2.4

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	2.4
Bicarb. Alk CaCO ₃	mg/L	2
Cyanide as CN	mg/L	<0.02

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932859/11

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6F

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o-p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932842/7

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 7B

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	14
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	2
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	75

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932842/5

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 8B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	4
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	7
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR _____



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

LAB NO. C932842/3

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 8A

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	2
1,2 Dichloroethene	ug/L	32
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	5
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	14
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	270

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932886/1

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 9B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932886/3

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 9C

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	2
1,4 Dichlorobenzene	ug/L	8
Benzene	ug/L	2
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR 

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

LAB NO. C932886/7

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 11A

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932886/5

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 11B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932859/10

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6E

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	0.57
Barium as Ba	mg/L	0.21
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.50
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	34
Zinc as Zn	mg/L	0.06
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	14
Magnesium as Mg	mg/L	11
Calcium as Ca	mg/L	24

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



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

LAB NO. C932859/1

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, OBS-2

ANALYTICAL PARAMETERS

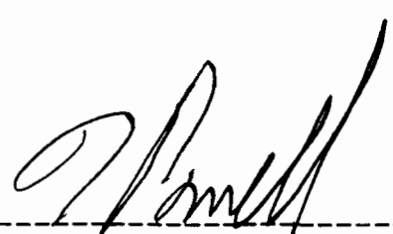
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	10
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	2
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR _____


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

LAB NO. C932842/11

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, M-30B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

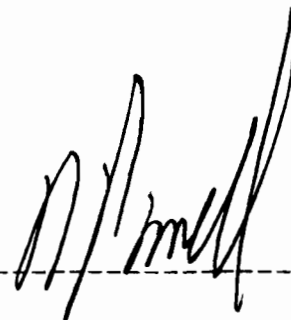
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932842/13

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, FB-B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropane	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropane	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

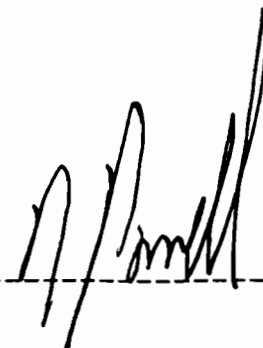
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932842/15

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, FB-C

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR _____

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

LAB NO. C932842/14

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, Trip Blank

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

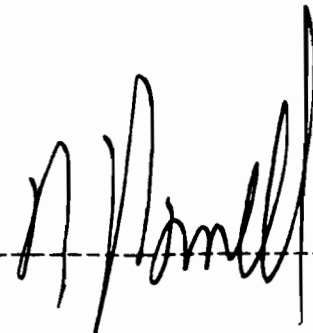
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR _____



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

LAB NO. C932859/15

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, Trip Blank

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR _____



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

LAB NO. C932886/9

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water Sample, Trip Blank

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR _____



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

LAB NO. C932842/10

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 5B

ANALYTICAL PARAMETERS

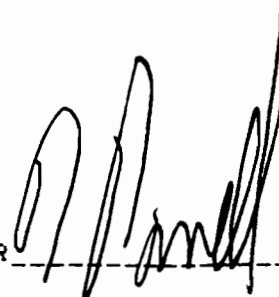
Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	0.09
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.98
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	330
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	92
Magnesium as Mg	mg/L	24
Calcium as Ca	mg/L	24

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932859/4

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6A

ANALYTICAL PARAMETERS

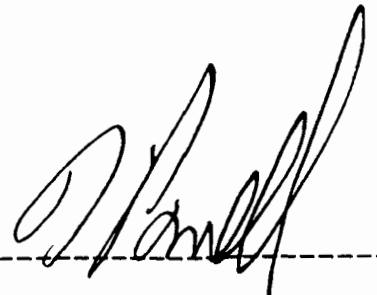
Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.06
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	6.2
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.3
Magnesium as Mg	mg/L	3.2
Calcium as Ca	mg/L	4.8

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932859/6

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6B

ANALYTICAL PARAMETERS

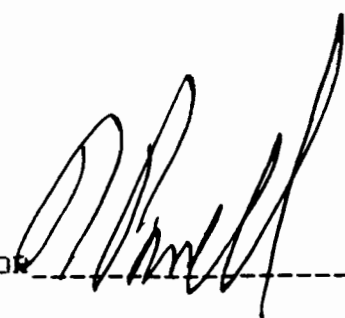
ANALYTICAL PARAMETERS

Iron as Fe	mg/L	24
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.36
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	200
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	98
Magnesium as Mg	mg/L	13
Calcium as Ca	mg/L	8.7

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932859/8

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6C


ANALYTICAL PARAMETERS

Iron as Fe	mg/L	32
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.36
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	56
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	31
Magnesium as Mg	mg/L	12
Calcium as Ca	mg/L	32

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR 

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

LAB NO. C932859/14

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, REP 1

ANALYTICAL PARAMETERS

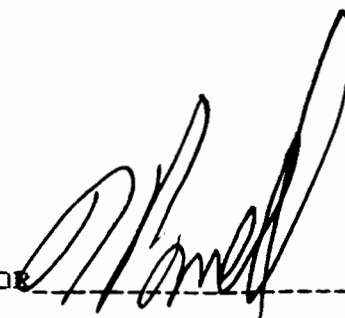
Iron as Fe	mg/L	32
Barium as Ba	mg/L	0.08
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.38
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	55
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	34
Magnesium as Mg	mg/L	13
Calcium as Ca	mg/L	33

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932859/10

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6E

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	0.57
Barium as Ba	mg/L	0.21
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.50
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	34
Zinc as Zn	mg/L	0.06
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	14
Magnesium as Mg	mg/L	11
Calcium as Ca	mg/L	24

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR _____



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

LAB NO. C932859/12

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6F

ANALYTICAL PARAMETERS

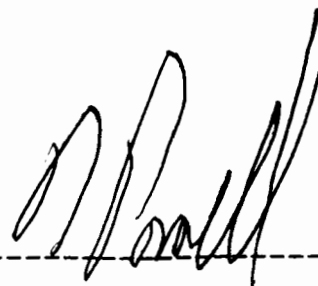
Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	0.09
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	40
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.3
Magnesium as Mg	mg/L	9.2
Calcium as Ca	mg/L	19

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932842/8

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 7B

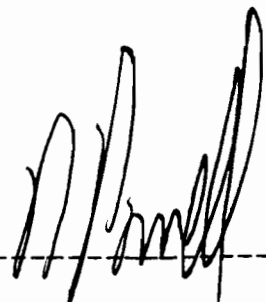
ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.001
Manganese as Mn	mg/L	0.12
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	15
Zinc as Zn	mg/L	0.03
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.6
Magnesium as Mg	mg/L	4.5
Calcium as Ca	mg/L	7.8

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____


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

LAB NO. C932842/4

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 8A

ANALYTICAL PARAMETERS

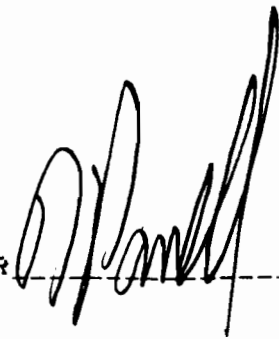
Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.003
Manganese as Mn	mg/L	0.20
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	8.9
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	3.1
Magnesium as Mg	mg/L	4.7
Calcium as Ca	mg/L	13

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932842/6

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 8B

ANALYTICAL PARAMETERS

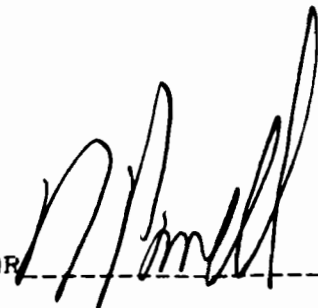
Iron as Fe	mg/L	0.78
Barium as Ba	mg/L	0.29
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.02
Manganese as Mn	mg/L	0.97
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	34
Zinc as Zn	mg/L	0.05
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	15
Magnesium as Mg	mg/L	12
Calcium as Ca	mg/L	34

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932886/2

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 9B

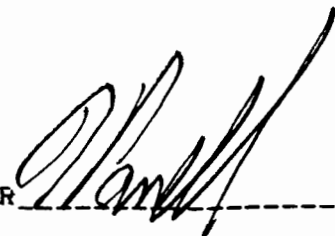
ANALYTICAL PARAMETERS		
Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	0.09
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.20
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	11
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	6.8
Magnesium as Mg	mg/L	5.5
Calcium as Ca	mg/L	7.4

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932886/4

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 9C

ANALYTICAL PARAMETERS

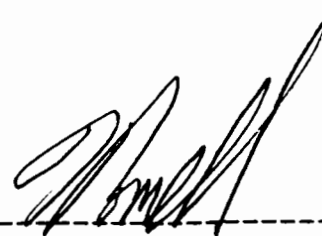
Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	0.03
Lead as Pb	mg/L	0.002
Manganese as Mn	mg/L	0.12
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	230
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	130
Magnesium as Mg	mg/L	14
Calcium as Ca	mg/L	6.5

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



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

LAB NO. C932886/8

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 11A

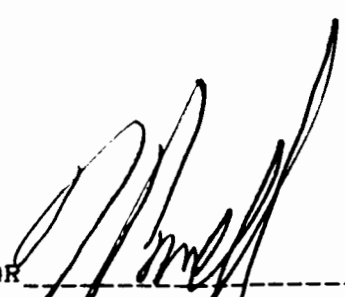
ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	4.9
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.74
Magnesium as Mg	mg/L	1.2
Calcium as Ca	mg/L	1.8

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932842/9

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 5B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	370
Ammonia as N	mg/L	73
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	150
Alkalinity tot CaCO ₃	mg/L	630
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.08
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.99
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	320
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	90
Magnesium as Mg	mg/L	23
Calcium as Ca	mg/L	24
Tot Dissolved Solids	mg/L	1100
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	59
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	77

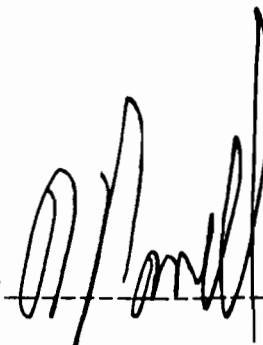
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	77
Bicarb. Alk CaCO ₃	mg/L	630
Cyanide as CN	mg/L	<0.02

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932859/3

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6A

ANALYTICAL PARAMETERS		
Chloride as Cl	mg/L	12
Ammonia as N	mg/L	0.17
Iron as Fe	mg/L	0.06
Hardness as CaCO ₃	mg/L	25
Alkalinity tot CaCO ₃	mg/L	10
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.003
Manganese as Mn	mg/L	0.07
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	6.0
Zinc as Zn	mg/L	0.03
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.3
Magnesium as Mg	mg/L	3.3
Calcium as Ca	mg/L	4.5
Tot Dissolved Solids	mg/L	44
Nitrate as N	mg/L	4.4
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.2

ANALYTICAL PARAMETERS		
Nitrogen, total as N	mg/L	5.6
Bicarb. Alk CaCO ₃	mg/L	10
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


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

LAB NO. C932886/6

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 11B

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	3.7
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.61
Magnesium as Mg	mg/L	0.75
Calcium as Ca	mg/L	1.4

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR 

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

LAB NO. C932842/2

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Leachate sample, LF-1

ANALYTICAL PARAMETERS

Manganese as Mn	mg/L	15
Sodium as Na	mg/L	46
Iron as Fe	mg/L	1.4
Potassium as K	mg/L	19
Calcium as Ca	mg/L	15

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



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

LAB NO. C932842/12

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, M-30B

ANALYTICAL PARAMETERS

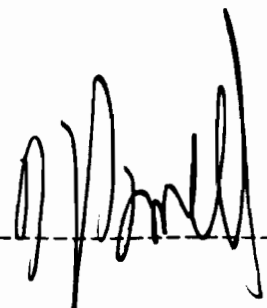
Iron as Fe	mg/L	0.28
Barium as Ba	mg/L	0.20
Aluminum as Al	mg/L	0.25
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.10
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	26
Zinc as Zn	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.7
Magnesium as Mg	mg/L	8.3
Calcium as Ca	mg/L	13

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



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

LAB NO. C932859/2

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, DISSOLVED
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, OBS-2

ANALYTICAL PARAMETERS

Iron as Fe	mg/L	<0.05
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.003
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	5.4
Zinc as Zn	mg/L	0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.4
Magnesium as Mg	mg/L	3.6
Calcium as Ca	mg/L	3.3

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



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

LAB NO. C932859/5

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6B

ANALYTICAL PARAMETERS		
Chloride as Cl	mg/L	240
Ammonia as N	mg/L	68
Iron as Fe	mg/L	24
Hardness as CaCO ₃	mg/L	85
Alkalinity tot CaCO ₃	mg/L	520
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.001
Manganese as Mn	mg/L	0.36
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	170
Zinc as Zn	mg/L	0.03
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	0.006
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	120
Magnesium as Mg	mg/L	16
Calcium as Ca	mg/L	8.3
Tot Dissolved Solids	mg/L	740
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	24
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	69

ANALYTICAL PARAMETERS		
Nitrogen, total as N	mg/L	69
Bicarb. Alk CaCO ₃	mg/L	520
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR 

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

LAB NO. C932859/7

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6C

ANALYTICAL PARAMETERS

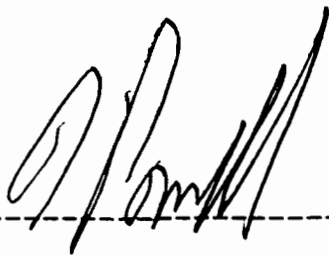
Chloride as Cl	mg/L	160
Ammonia as N	mg/L	17
Iron as Fe	mg/L	33
Hardness as CaCO ₃	mg/L	130
Alkalinity tot CaCO ₃	mg/L	130
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.08
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.37
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	58
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	33
Magnesium as Mg	mg/L	12
Calcium as Ca	mg/L	33
Tot Dissolved Solids	mg/L	360
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	20
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	18

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	18
Bicarb. Alk CaCO ₃	mg/L	130
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


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

LAB NO. C932859/13

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, REP 1

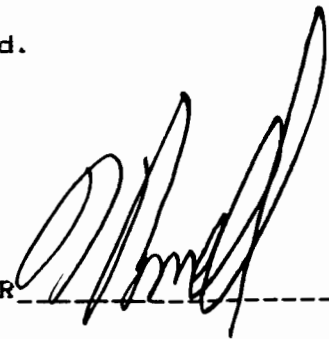
ANALYTICAL PARAMETERS		
Chloride as Cl	mg/L	160
Ammonia as N	mg/L	16
Iron as Fe	mg/L	33
Hardness as CaCO3	mg/L	130
Alkalinity tot CaCO3	mg/L	130
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.08
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.36
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	58
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	33
Magnesium as Mg	mg/L	11
Calcium as Ca	mg/L	34
Tot Dissolved Solids	mg/L	370
Nitrate as N	mg/L	<0.5
Sulfate as SO4	mg/L	20
Carbonate Alk CaCO3	mg/L	0
Tot. Kjeldahl N.	mg/L	17

ANALYTICAL PARAMETERS		
Nitrogen, total as N	mg/L	17
Bicarb. Alk CaCO3	mg/L	130
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: •Analysis performed in the field.

DIRECTOR _____



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

LAB NO. C932859/9

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6E

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	140
Ammonia as N	mg/L	3.2
Iron as Fe	mg/L	0.53
Hardness as CaCO ₃	mg/L	110
Alkalinity tot CaCO ₃	mg/L	10
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.23
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.002
Manganese as Mn	mg/L	0.48
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	32
Zinc as Zn	mg/L	0.08
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	14
Magnesium as Mg	mg/L	11
Calcium as Ca	mg/L	24
Tot Dissolved Solids	mg/L	300
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	18
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	6.4

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	6.4
Bicarb. Alk CaCO ₃	mg/L	10
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____



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

LAB NO. C932859/11

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6F

ANALYTICAL PARAMETERS

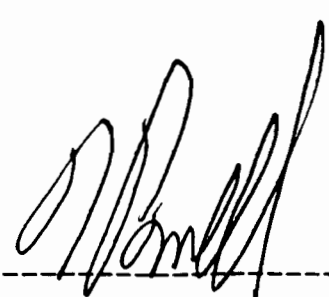
Chloride as Cl	mg/L	130
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	81
Alkalinity tot CaCO ₃	mg/L	4
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.09
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	45
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	2.2
Magnesium as Mg	mg/L	7.8
Calcium as Ca	mg/L	20
Tot Dissolved Solids	mg/L	260
Nitrate as N	mg/L	0.6
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.8

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	2.4
Bicarb. Alk CaCO ₃	mg/L	4
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


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

LAB NO. C932842/9

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 5B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	1
1,2 Dichloroethene	ug/L	1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

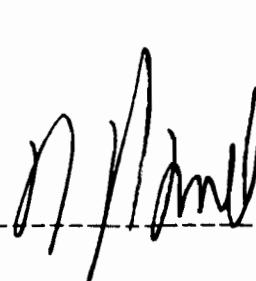
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	3
Benzene	ug/L	1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR



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

LAB NO. C932886/1

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 9B

ANALYTICAL PARAMETERS

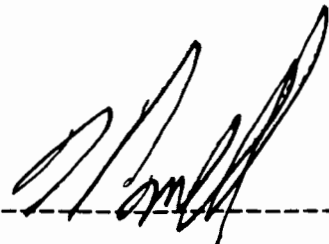
Chloride as Cl	mg/L	19
Ammonia as N	mg/L	2.1
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	41
Alkalinity tot CaCO ₃	mg/L	4
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.09
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.20
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	11
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	6.8
Magnesium as Mg	mg/L	5.5
Calcium as Ca	mg/L	7.3
Tot Dissolved Solids	mg/L	85
Nitrate as N	mg/L	4.6
Sulfate as SO ₄	mg/L	32
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	3.4

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	8.0
Bicarb. Alk CaCO ₃	mg/L	4
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


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

LAB NO. C932842/3

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 8A

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	24
Ammonia as N	mg/L	1.2
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	52
Alkalinity tot CaCO ₃	mg/L	18
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.07
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.002
Manganese as Mn	mg/L	0.20
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	9.0
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	3.2
Magnesium as Mg	mg/L	4.7
Calcium as Ca	mg/L	13
Tot Dissolved Solids	mg/L	79
Nitrate as N	mg/L	1.1
Sulfate as SO ₄	mg/L	23
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	2.4

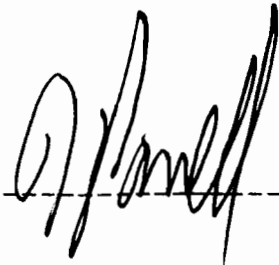
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	3.5
Bicarb. Alk CaCO ₃	mg/L	18
Cyanide as CN	mg/L	<0.02

CC:

REMARKS:

DIRECTOR _____



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

LAB NO. C932886/3

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 9C

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	310
Ammonia as N	mg/L	94
Iron as Fe	mg/L	<0.05
Hardness as CaCO3	mg/L	74
Alkalinity tot CaCO3	mg/L	600
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.06
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	0.03
Lead as Pb	mg/L	0.002
Manganese as Mn	mg/L	0.13
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	220
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	130
Magnesium as Mg	mg/L	14
Calcium as Ca	mg/L	6.4
Tot Dissolved Solids	mg/L	860
Nitrate as N	mg/L	<0.5
Sulfate as SO4	mg/L	17
Carbonate Alk CaCO3	mg/L	0
Tot. Kjeldahl N.	mg/L	100

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	100
Bicarb. Alk CaCO3	mg/L	600
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____



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

LAB NO. C932886/5

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 11B

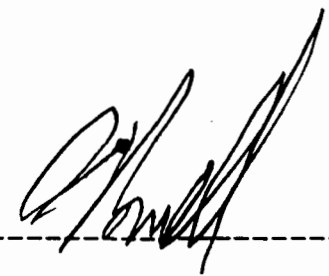
ANALYTICAL PARAMETERS		
Chloride as Cl	mg/L	8
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	<0.05
Hardness as CaCO3	mg/L	6.6
Alkalinity tot CaCO3	mg/L	2
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	3.9
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.62
Magnesium as Mg	mg/L	0.74
Calcium as Ca	mg/L	1.4
Tot Dissolved Solids	mg/L	13
Nitrate as N	mg/L	1.8
Sulfate as SO4	mg/L	<5
Carbonate Alk CaCO3	mg/L	0
Tot. Kjeldahl N.	mg/L	1.4

ANALYTICAL PARAMETERS		
Nitrogen, total as N	mg/L	3.2
Bicarb. Alk CaCO3	mg/L	2
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____



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

LAB NO. C932859/3

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

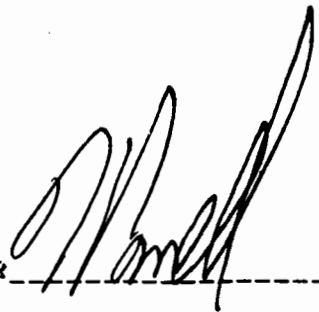
SAMPLE: Water sample, 6A

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:


 DIRECTOR _____

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

LAB NO. C932886/7

07/23/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/09/93 RECEIVED: 07/09/93

SAMPLE: Water sample, 11A

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	10
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	<0.05
Hardness as CaCO ₃	mg/L	9.6
Alkalinity tot CaCO ₃	mg/L	2
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	<0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.001
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	4.7
Zinc as Zn	mg/L	<0.02
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	0.74
Magnesium as Mg	mg/L	1.2
Calcium as Ca	mg/L	1.9
Tot Dissolved Solids	mg/L	12
Nitrate as N	mg/L	2.9
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.2

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	4.1
Bicarb. Alk CaCO ₃	mg/L	2
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


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

LAB NO. C932859/1

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, OBS-2

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	14
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	0.13
Hardness as CaCO ₃	mg/L	23
Alkalinity tot CaCO ₃	mg/L	2
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.05
Aluminum as Al	mg/L	<0.20
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.004
Manganese as Mn	mg/L	<0.02
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	4.9
Zinc as Zn	mg/L	0.03
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.5
Magnesium as Mg	mg/L	4.0
Calcium as Ca	mg/L	2.6
Tot Dissolved Solids	mg/L	24
Nitrate as N	mg/L	2.7
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	2.2

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	4.9
Bicarb. Alk CaCO ₃	mg/L	2
Cyanide as CN	mg/L	<0.02

cc:

REMARKS: *Analysis performed in the field.

DIRECTOR _____


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

LAB NO. C932859/5

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6B

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	2
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	6
Benzene	ug/L	7
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932859/7

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6C

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR 

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

LAB NO. C932859/13

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, REP 1

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

CC:

REMARKS:

DIRECTOR _____


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

LAB NO. C932859/9

07/22/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/08/93 RECEIVED: 07/08/93

SAMPLE: Water sample, 6E

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	4
1,4 Dichlorobenzene	ug/L	11
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR _____


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

LAB NO. C932842/11

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, M-30B

ANALYTICAL PARAMETERS

Chloride as Cl	mg/L	57
Ammonia as N	mg/L	<0.05
Iron as Fe	mg/L	120
Hardness as CaCO3	mg/L	70
Alkalinity tot CaCO3	mg/L	2
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	2.1
Aluminum as Al	mg/L	86
Copper as Cu	mg/L	0.06
Lead as Pb	mg/L	0.066
Manganese as Mn	mg/L	2.1
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	20
Zinc as Zn	mg/L	0.12
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	0.081
Mercury as Hg	mg/L	0.0011
Potassium as K	mg/L	6.9
Magnesium as Mg	mg/L	10
Calcium as Ca	mg/L	11
Tot Dissolved Solids	mg/L	140
Nitrate as N	mg/L	3.3
Sulfate as SO4	mg/L	32
Carbonate Alk CaCO3	mg/L	0
Tot. Kjeldahl N.	mg/L	1.2

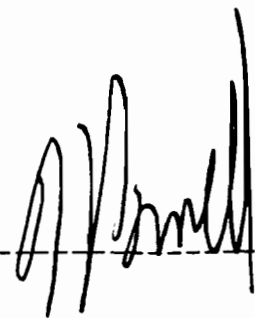
ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	4.5
Bicarb. Alk CaCO3	mg/L	2
Cyanide as CN	mg/L	<0.02

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932842/1

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Leachate sample, LF-1

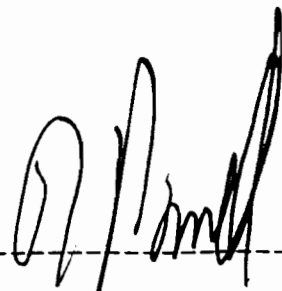
ANALYTICAL PARAMETERS		
Chloride as Cl	mg/L	120
Ammonia as N	mg/L	12
Iron as Fe	mg/L	1.5
Hardness as CaCO ₃	mg/L	110
Alkalinity tot CaCO ₃	mg/L	130
Manganese as Mn	mg/L	15
Sodium as Na	mg/L	48
Potassium as K	mg/L	19
Calcium as Ca	mg/L	15
Tot Dissolved Solids	mg/L	280
Nitrate as N	mg/L	<0.5
Sulfate as SO ₄	mg/L	43
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	14
Bicarb. Alk CaCO ₃	mg/L	130

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



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

LAB NO. C932842/7

07/19/93

Geraghty & Miller, Incorporated
125 East Bethpage Road
Plainview, NY 11803

ATTN: William Conroy

SOURCE OF SAMPLE: Old Bethpage LF, #NY02808, TOTAL
COLLECTED BY: Client DATE COL'D: 07/07/93 RECEIVED: 07/07/93

SAMPLE: Water sample, 7B

ANALYTICAL PARAMETERS


Chloride as Cl	mg/L	41
Ammonia as N	mg/L	0.39
Iron as Fe	mg/L	0.51
Hardness as CaCO ₃	mg/L	37
Alkalinity tot CaCO ₃	mg/L	6
Phenols as Phenol	mg/L	<0.001
Barium as Ba	mg/L	0.05
Aluminum as Al	mg/L	0.26
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.001
Manganese as Mn	mg/L	0.12
Nickel as Ni	mg/L	<0.10
Sodium as Na	mg/L	13
Zinc as Zn	mg/L	0.03
Chromium hex as Cr	mg/L	<0.02
Chromium as Cr	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Potassium as K	mg/L	1.6
Magnesium as Mg	mg/L	4.9
Calcium as Ca	mg/L	6.9
Tot Dissolved Solids	mg/L	58
Nitrate as N	mg/L	2.7
Sulfate as SO ₄	mg/L	<5
Carbonate Alk CaCO ₃	mg/L	0
Tot. Kjeldahl N.	mg/L	1.0

ANALYTICAL PARAMETERS

Nitrogen, total as N	mg/L	3.7
Bicarb. Alk CaCO ₃	mg/L	6
Cyanide as CN	mg/L	<0.02

cc:

REMARKS:

DIRECTOR _____


APPENDIX B

THIRD QUARTER 1993 WATER SAMPLING LOGS



WATER SAMPLING LOG

Project/No. OBL NY 0028008 Page _____ of _____
 Site Location BETHPAGE NY
 Site/Well No. 5B Coded/Replicate No. _____ Date 7-7-93
 Weather CLEAR 85° Time Sampling Began 9:35 Time Sampling Completed 10:05

EVACUATION DATA

Description of Measuring Point (MP) TOL
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 117 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 73.48 Diameter of Casing 4"
 Wet _____ Water Column in Well 43.52 Gallons Pumped/Bailed Prior to Sampling 84.86
 on: 9:14 Gallons per Foot .65
 off: 9:15 Gallons in Well 28.28 Sampling Pump Intake Setting (feet below land surface) _____
 Q=7 T=13
 Evacuation Method DEDICATED SUBMERSIBLE PUMP

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor NONE Appearance CLEAN Temperature 20 °F/°C
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 1750 pH 9.1

Sampling Method and Material FLOW CELL DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COC</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel GARY WILLIAMS, RUBEN PONCEANO

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBC NY 0028008 Page _____ of _____
 Site Location BETHPAGE NY
 Site/Well No. GA Coded/Replicate No. _____ Date 7-8-93
 Weather CLEAR 950 Time Sampling Began 1:01 Time Sampling Completed 1:20

EVACUATION DATA

Description of Measuring Point (MP) _____
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 105 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 95.57 Diameter of Casing _____
 Wet _____ Water Column in Well 9.43 Gallons Pumped/Bailed Prior to Sampling 12.36
 Gallons per Foot .65
 Gallons in Well 6.12 Sampling Pump Intake Setting (feet below land surface) _____
 Evacuation Method DEDICATED PUMP

$Q = 3$ $T = 67$
 $OW = 1:05$
 $OFF = 1:12$

SAMPLING DATA/FIELD PARAMETERS

Color NONE Odor NONE Appearance clear Temperature 18 °F/°C
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 90 pH 5.4

Sampling Method and Material PUMP DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>ZEE CBC</u>		

Remarks _____
 Sampling Personnel G. WILLIAMS R. POWERS

WELL CASING VOLUMES			
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50
			4" = 0.65
			6" = 1.46

WATER SAMPLING LOG

Project/No. 03L NY 0028008

Page 1 of 1

Site Location BETHPAGE NY

Site/Well No. 6B Coded/Replicate No. _____

Date 7/8/83

Weather Partly Cloudy 75 Time Sampling Began 1:30

Time Sampling Completed 6:45 pm

EVACUATION DATA

Description of Measuring Point (MP) _____

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 140 Water-Level Elevation _____

Held _____ Depth to Water Below MP 95.77 Diameter of Casing _____

Wet _____ Water Column in Well 44.23 Gallons Pumped/Bailed Prior to Sampling 86.

Q = 7 T = 13
on: 1:27
off 1:40

Gallons per Foot .65

Gallons in Well 28.74

Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method DEDICATED PUMP

SAMPLING DATA/FIELD PARAMETERS

Color NONE Odor moderately Appearance clear Temperature 19 °F 6 °C

Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 1600 pH 6.5

Sampling Method and Material PUMP DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> of G&M	Preservative
<u>SISE COC</u>		
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel S. WILLIAMS R. PONCETANO

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBK NY 00 28008

Page 1 of 1

Site Location BETHPAGE NY

Site/Well No. 6C

Coded/Replicate No. REP-1

Date 7-8-93

Weather CLOUDY 95°

Time Sampling Began 1:49

Time Sampling Completed 2:25

EVACUATION DATA

Description of Measuring Point (MP) TOC

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 160.00 Water-Level Elevation _____

Held _____ Depth to Water Below MP 96.25 Diameter of Casing _____

Wet _____ Water Column in Well 63.75 Gallons Pumped/Bailed Prior to Sampling 124.31

$Q=8$ $T=16$
 $DN=152$
 $OFF=2:03$

Gallons per Foot 1.65

Gallons in Well 41.43

Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method DELEGATED PUMP

SAMPLING DATA/FIELD PARAMETERS

Color None Odor moderately Appearance Clear Temperature 28 °F/°C

Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 60 pH 6.1

Sampling Method and Material Flow Cell DISCHARGE

Constituents Sampled	Container Description		Preservative
	From Lab	or G&M	
<u>SEE COC</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
_____	<input type="checkbox"/>	<input type="checkbox"/>	
_____	<input type="checkbox"/>	<input type="checkbox"/>	

Remarks _____

Sampling Personnel G. Williams R. Ponzano

GAL./FT.	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

WATER SAMPLING LOG

Project/No. OBL NY 6028008 Page _____ of _____
 Site Location BETHPAGE NY
 Site/Well No. GE Coded/Replicate No. _____ Date 7-8-93
 Weather CLEAR 95° Time Sampling Began 11:00Z Time Sampling Completed 12:55

EVACUATION DATA

Description of Measuring Point (MP) TDC
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 250 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 96.34 Diameter of Casing _____
 Wet _____ Water Column in Well 153.66 Gallons Pumped/Bailed Prior to Sampling 299.63
 Gallons per Foot 0.65
 Gallons in Well 99.87 Sampling Pump Intake Setting (feet below land surface) _____
 Evacuation Method DEDICATED SUB PUMP

*Q=3 T=100
 on: 11:05
 off: 12:45*

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor NONE Appearance CLEAR Temperature 24 °F/°C
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 400 pH 4.9

Sampling Method and Material FLOW CELL DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COC</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel G. WILLIAMS, R. LOW (DAMO)

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008 Page _____ of _____
 Site Location BETHPAGE NY
 Site/Well No. 6F Coded/Replicate No. _____ Date 7-8-93
 Weather CLEAR 95° Time Sampling Began 9:30 Time Sampling Completed 11:01

EVACUATION DATA

Description of Measuring Point (MP) TOC
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 350 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 96.86 Diameter of Casing _____
 Wet _____ Water Column in Well 253.14 Gallons Pumped/Bailed Prior to Sampling 493.62
 Gallons per Foot .65 Sampling Pump Intake Setting (feet below land surface) _____
 Gallons in Well 164.51
 Evacuation Method DEDICATED PUMP

Q=7 T=70
 on: 9:30
 off: 10:48

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor NONE Appearance CLEAR Temperature 23 °C
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 310 pH 4.9

Sampling Method and Material flow cell

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COC</u>		

Remarks CHANGED PH METER

Sampling Personnel G. WILLIAMS, R. LOW CIRANO

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008 Page _____ of _____
 Site Location BETHPAGE
 Site/Well No. 7B Coded/Replicate No. _____ Date 7-7-93
 Weather CLEAR 85° Time Sampling Began 10:45 Time Sampling Completed 11:45

EVACUATION DATA

Description of Measuring Point (MP) TO C
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 235.00 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 38.14 Diameter of Casing 4"
 Wet _____ Water Column in Well 146.86 Gallons Pumped/Bailed Prior to Sampling 286.37
 Gallons per Foot .65
 Gallons in Well 95.49 Sampling Pump Intake Setting (feet below land surface) _____
 Evacuation Method DEDICATED SUB PUMP WELL SURGING 11/03

Q=8 T=36
 ON 10:59
 OFF 11:35
 OFF AT 11:53

SAMPLING DATA/FIELD PARAMETERS

Color to none Odor none Appearance clear Temperature 21 °F
 Other (specific ion: OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 130 pH 7.7

Sampling Method and Material flow CELL DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M <input type="checkbox"/>	Preservative
<u>SEE COC</u>		

Remarks _____
 Sampling Personnel G. WILLIAMS RUBEN BUCARO

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008 Page _____ of _____
 Site Location BETHPAGE NY
 Site/Well No. 8A Coded/Replicate No. _____ Date 7-7-93
 Weather CLEAR 90° Time Sampling Began 1:25 Time Sampling Completed 1:50

EVACUATION DATA

Description of Measuring Point (MP) _____
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 90.00 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 68.99 Diameter of Casing _____
 Wet _____ Water Column in Well 21.01 Gallons Pumped/Bailed Prior to Sampling 40.96
 Q=8 T=6 Gallons per Foot .65 Sampling Pump Intake Setting (feet below land surface) _____
 ON: 1:33 Gallons in Well 13.65
 OFF: 1:39
 Evacuation Method DEDICATED SUB PUMP SURGING AT 1:36-4:30 PM OFF AT 1:42

SAMPLING DATA/FIELD PARAMETERS

Color clear Odor none Appearance clear Temperature 22 °F (C)
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 145 pH 6.7

Sampling Method and Material flow CELL DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COC</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel G. WILLIAMS R. POWERS

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008

Page 1 of 1

Site Location BUTLER NY

Site/Well No. 8B

Coded/
Replicate No. _____

Date 7/7/93

Weather CLEAR 90°

Time Sampling
Began 1:53

Time Sampling
Completed 3:05

EVACUATION DATA

Description of Measuring Point (MP) _____

Height of MP Above/Below Land Surface _____

MP Elevation _____

Total Sounded Depth of Well Below MP 161.

Water-Level Elevation _____

Held _____ Depth to Water Below MP 68.39

Diameter of Casing _____

Wet _____ Water Column in Well 96.21

Gallons Pumped/Bailed
Prior to Sampling 180.50

*Q=8 T=22
ON @ 1:57
OFF @ 2:19*

Gallons per Foot .65

Gallons in Well 60.19

Sampling Pump Intake Setting
(feet below land surface) _____

Evacuation Method DEDICATED SUBPUMP LOWERED TO 26ft AT 2:09

OFF AT 2:51

SAMPLING DATA/FIELD PARAMETERS

Color ~~clear~~ none Odor none Appearance clear Temperature 24 °F Ⓢ

Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 450 pH 7.0

Sampling Method and Material FLOW CELL DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>See C.O.C</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel G. Miller G. Williams / R. Pinciani

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL N10028008 Page _____ of _____
 Site Location BETHPAGE NY
 Site/Well No. 9B Coded/Replicate No. _____ Date 7-9-90
 Weather Clear 9PS Time Sampling Began 10:58 Time Sampling Completed 11:35

EVACUATION DATA

Description of Measuring Point (MP) _____
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 168 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 91.97 Diameter of Casing _____
 Wet _____ Water Column in Well 76.03 Gallons Pumped/Bailed Prior to Sampling 148.25
 Gallons per Foot .65 Sampling Pump Intake Setting (feet below land surface) _____
 Gallons in Well 49.41
 Evacuation Method DEDICATED SUB PUMP

Q = 7 T = 21
 OWB 11:05
 Off 11:26

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor NONE Appearance CLEAR Temperature 20 °F/°C
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 150 pH 5.8

Sampling Method and Material flow cell DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE LOC</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel G. WILLIAMS R. POWERS

WELL CASING VOLUMES			
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50
			4" = 0.65
			6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008

Page _____ of _____

Site Location BETHPAGE NY

Site/Well No. 9C

Coded/Replicate No. _____

Date 7-9-93

Weather CLEAR 90°

Time Sampling Began 9:44

Time Sampling Completed 10:40

EVACUATION DATA

Description of Measuring Point (MP) TBL

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 225.0 Water-Level Elevation _____

Held _____ Depth to Water Below MP 93.29 Diameter of Casing _____

Wet _____ Water Column in Well 131.71 Gallons Pumped/Bailed Prior to Sampling 25683

Q = 7 T = 36
on: 9:52
off: 10:28

Gallons per Foot .65

Gallons in Well 85.61

Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method DEDICATED SUB PUMP

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor None Appearance CLEAR Temperature 20 °F/°C

Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 1650 pH 6.7

Sampling Method and Material flow cell discharge

Constituents Sampled	Container Description		Preservative
	From Lab	or G&M	
<u>SEE COC</u>			

Remarks _____

Sampling Personnel G. Williams R. Power

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008

Page 1 of 1

Site Location BETHPAGE NY

Site/Well No. 11A

Coded/Replicate No. _____

Date 7-9-93

Weather CLEAR 90°S

Time Sampling Began 1:25

Time Sampling Completed 2:05

EVACUATION DATA

Description of Measuring Point (MP) _____

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 140 Water-Level Elevation _____

Held _____ Depth to Water Below MP 22.92 Diameter of Casing _____

Wet _____ Water Column in Well 117.08 Gallons Pumped/Bailed Prior to Sampling 228.30

Q=9 T=26
on% 1:32
off% 1:58

Gallons per Foot .65

Gallons in Well 76.10

Sampling Pump Intake Setting (feet below land surface) _____

Evacuation Method DEDICATED PUMP

SAMPLING DATA/FIELD PARAMETERS

Color none Odor none Appearance Clear Temperature 19 °F/°C

Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 30 pH 4.9

Sampling Method and Material flow cell DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COE</u>	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel G. Williams, R. Ponce

WELL CASING VOLUMES	
GAL./FT.	1-1/4" = 0.077
	2" = 0.16
	2-1/2" = 0.24
	3" = 0.37
	3-1/2" = 0.50
	4" = 0.65
	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL 107 0028009

Page 1 of 1

Site Location BETHANY NY

Site/Well No. 11B Coded/Replicate No. _____

Date 7-9-93

Weather CLEAR 90's Time Sampling Began 12:15

Time Sampling Completed 1:30

EVACUATION DATA

Description of Measuring Point (MP) _____

Height of MP Above/Below Land Surface ~~235~~ MP Elevation _____

Total Sounded Depth of Well Below MP 235 Water-Level Elevation _____

Held _____ Depth to Water Below MP 22.79 Diameter of Casing _____

Wet _____ Water Column in Well 212.27 Gallons Pumped/Bailed Prior to Sampling 413.80

Q=8 T=52

Gallons per Foot .65

Gallons in Well 137.93 Sampling Pump Intake Setting (feet below land surface) _____

DN 12:23
off 1:15

Evacuation Method DEDICATED PUMP

SAMPLING DATA/FIELD PARAMETERS

Color none Odor none Appearance clear Temperature 20 °F/C

Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance 30 umhos/cm pH 5

Sampling Method and Material FLOW CELL DISCHARGE

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COC</u>		
_____	_____	_____
_____	_____	_____

Remarks _____

Sampling Personnel G. WILKINS R. POWERS

WELL CASING VOLUMES			
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50
			4" = 0.65
			6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008 Page _____ of _____
 Site Location BETHPAGE NEW YORK
 Site/Well No. LF-1 Coded/Replicate No. _____ Date 7-7-93
 Weather CLEAR 85° Time Sampling Began 8:40 Time Sampling Completed 9:20

EVACUATION DATA

Description of Measuring Point (MP) TOC
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 107 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 45.10 Diameter of Casing 6"
 Wet _____ Water Column in Well 61.9 Gallons Pumped/Bailed Prior to Sampling 271.11
 Gallons per Foot 1.46
 Gallons in Well 90.37 Sampling Pump Intake Setting (feet below land surface) _____
 Evacuation Method DED ~~Submersible Pump~~

OW: 8:46
 Off: 9:14
 Q=10 T=28

SAMPLING DATA/FIELD PARAMETERS

Color none Odor none Appearance clear Temperature 22 °F (°C)
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance 600 umhos/cm pH 6.0

Sampling Method and Material Pump discharge

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COC</u>		

Remarks _____

Sampling Personnel GWEUSIANS R. POWERS AND

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008 Page _____ of _____
 Site Location BETHPAGE NEW YORK
 Site/Well No. M-30 B Coded/Replicate No. _____ Date 7-7-93
 Weather CLEAR 85° Time Sampling Began 7:01 Time Sampling Completed 7:55

EVACUATION DATA

Description of Measuring Point (MP) TOC
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 98 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 85.39 Diameter of Casing 2"
 Wet _____ Water Column in Well 12.61 Gallons Pumped/Bailed Prior to Sampling 6.03
 Gallons per Foot .16
 Gallons in Well 2.01 Sampling Pump Intake Setting (feet below land surface) _____
 Evacuation Method TEFLON BAILER

SAMPLING DATA/FIELD PARAMETERS

Color Brown Odor none Appearance very turbid Temperature 15 °F/°C
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm 220 pH 5.4

Sampling Method and Material TEFLON BAILER

Constituents Sampled	Container Description From Lab <input checked="" type="checkbox"/> or G&M _____	Preservative
<u>SEE COC</u>		

Remarks FIELD BLANK PERFORMED AFTER M-30 B
 Sampling Personnel GARY WILLIAMS RUBEN PONCEANO

WELL CASING VOLUMES			
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50
			4" = 0.65
			6" = 1.46

WATER SAMPLING LOG

Project/No. OBL NY 0028008 Page _____ of _____
 Site Location BETHPAGE NY.
 Site/Well No. OBS-2 Coded/Replicate No. _____ Date 7-8-93
 Weather CLEAR 90°s Time Sampling Began 8:15 Time Sampling Completed 9:19

EVACUATION DATA

Description of Measuring Point (MP) TOC
 Height of MP Above/Below Land Surface _____ MP Elevation _____
 Total Sounded Depth of Well Below MP 190 Water-Level Elevation _____
 Held _____ Depth to Water Below MP 45.25 Diameter of Casing _____
 Wet _____ Water Column in Well 144.75 Gallons Pumped/Bailed Prior to Sampling 282.26
 Q=2 | T=13
 on 8:31
 off 8:44
 Gallons per Foot .65 Sampling Pump Intake Setting (feet below land surface) 75
 Gallons in Well 94.08
 Evacuation Method 4" SUB PUMP

SAMPLING DATA/FIELD PARAMETERS

Color CLEAR Odor NONE Appearance CLEAR Temperature 5 °F/°C
 Other (specific ion; OVA; HNU; etc.) _____

Specific Conductance, umhos/cm _____ pH 7.2*

Sampling Method and Material TEFLON BAILER

Constituents Sampled	Container Description From Lab _____ or G&M _____	Preservative
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks * BATTERIES LOW

Sampling Personnel G. WILLIAMS, R. POCCIANO

WELL CASING VOLUMES	
GAL./FT.	1-1/4" = 0.077 2" = 0.16 3" = 0.37 4" = 0.65
	1-1/2" = 0.10 2-1/2" = 0.24 3-1/2" = 0.50 6" = 1.46

APPENDIX C

GROUNDWATER SAMPLING PROTOCOLS



July 10, 1991

Mr. Joe Schechter
Lockwood, Kessler & Bartlett, Inc.
One Aerial Way
Syosset, New York 11791

Re: First Round Ground-Water Monitoring at Old Bethpage Solid Waste Disposal Complex; Project No. NY02807

Dear Mr. Schechter:

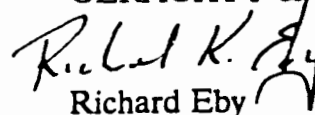
We are writing to apprise LKB that Geraghty & Miller will be collecting first round ground-water samples at Old Bethpage Landfill on the week of July 29, 1991. Sampling will be conducted in accordance with the requirements described in the Remedial Action Plan (RAP). As stipulated in the RAP, the first round of samples are to be collected prior to the commencement of pumping of the recovery system. Because the exact start-up date for testing the treatment facility has not been set, we have scheduled the sampling as soon as possible in order that this work can be completed prior to activation of the recovery system.

Attached is a copy of the "Protocols for Sampling Ground-Water at Old Bethpage Solid Waste Disposal Complex." These protocols will be followed for the collection of the first round samples and also for subsequent quarterly sampling rounds. In compliance with the Town of Oyster Bay's request that all project correspondences be handled by LKB, we respectfully request that LKB forward the attached sampling protocols and provide notification of our intent to sample (at least 1 week prior) to the appropriate regulatory agency.

If you have any questions or require additional information, please call.

Sincerely,


GERAGHTY & MILLER, INC.



Richard Eby
Project Scientist
(516) 391-5241



Carlo SanGiovanni
Senior Hydrogeologist/Project Manager
(516) 391-5259


RE/CS:mb
Attachment

cc: John Lekstutis
Ralph Cuomo

**PROTOCOLS FOR SAMPLING GROUND WATER UNDER THE
OLD BETHPAGE SOLID WASTE DISPOSAL COMPLEX
REMEDIAL ACTION PLAN**

Equipment:

Generator	Distilled Water
Extension Cord	Polyethylene Tubing
Water Level Meter (M-Scope) or Steel Tape and Chalk	Rags
Sample/Discharge Fitting	MICRO™ Laboratory Cleaner
Beakers	Sample Containers (including duplicate, field and trip blanks)
Graduated Bucket	Plastic Sheeting
Gloves (Latex, Nitrile, or equivalent)	Flow-through Cell
Nylon or Polypropylene Cord	pH Meter & Buffers (4 & 7)
Cooler with Ice	Conductivity Meter
Teflon Tape	Thermometer
	Scrub Brush
	PVC Bailer
	Grundfos™ Stainless Steel Submersible pump

Procedure: Wells equipped with permanent submersible pumps.

1. Unlock the well and measure the depth to water to the hundredth of a foot with a water-level meter (m-scope) or steel tape and chalk. Record this measurement on the Water Sampling Log, and calculate the amount of water standing in the well.
2. Lay plastic sheeting down around well. Clean the sample/discharge fitting and the flow-through cell in 2% MICRO™ solution, and rinse with distilled water.
3. Connect the sample/discharge fitting to the flow-through cell. Connect this assemblage to the riser pipe. Use Teflon tape where needed. Start generator and plug extension cord in; connect extension cord to the pump power cable. Record the time pumping began on the Water Sampling Log.
4. Close the valve on the fitting to the flow-through cell. Using the other valve, adjust the pumping rate so that it does not continuously draw down to the pump intake (consult sampling logs from previous sampling rounds for pumping rates). Periodically measure the flow rate using a graduated bucket. Record pumping rate on the Water Sampling Log.

5. Pump three times the amount of standing water from the well. If necessary, evacuate Well No. 8B by pumping dry three times, allowing time for recovery between each pumping. Water pumped from Well No. 6B is to be discharged away from the well to prevent possible contamination of the less contaminated water table zone tapped by Well No. 6A. A minimum of 100 feet of polyethelene tubing will be used to direct discharge away from the well cluster. Note: the flow-through cell is not used to sample Well No. 6B. Label and tape the sample containers.
6. When the well is nearly ready for sampling, put on protective gloves and open the valve to the flow-through cell. Insert thermometer, pH 4 and 7 buffers, and the conductivity electrode into the flow-through cell and allow a few minutes for thermal equilibration. Read and record temperature; set pH temperature knob to the measured temperature and calibrate both pH and conductivity meters with buffers. Remove vials containing buffers and insert pH electrode into the flow-through cell. Record pH, temperature, and conductivity on Water Sampling Log.
7. Adjust valve so that flow from the sample discharge (polyethylene tubing) is a trickle. Fill VOC vials, making sure that there are no trapped air bubbles, and place in a cooler with ice.
8. Fill remaining containers and place in a cooler with ice. Note: do not rinse bottles with sample water before filling, as some bottles contain preservative.
9. Complete Water Sampling Log and Chain-of-Custody Form. Affix Chain-of-Custody Seal to cooler.
10. Remove sample/discharge fitting and flow-through cell, replace all plugs, and lock the well. Discard plastic sheeting and gloves. Deliver samples to laboratory as soon as possible. Obtain signature from receiver at laboratory on Chain-of-Custody Form.

Procedure: Wells not equipped with a permanent submersible pump.

1. Wells which are not equipped with permanent submersible pumps will be evacuated with a submersible pump or PVC bailer, and sampled with a PVC bailer.
2. Open the Well and clean off any surficial dirt from protective casing. Remove well cap.
3. Measure the depth to water to the hundredth of a foot with a water level recorder (m-scope) or steel tape and chalk. Record this measurement on the Water Sampling Log, and calculate the amount of water standing in the well.
4. Lay plastic sheeting down around well. Label and tape the sample containers.

5. Disassemble the bailer, if appropriate, and immerse the bailer and/or submersible pump in a 2% solution of MICRO™, or pour the solution in and over the bailer/pump. Scrub the bailer/pump with a brush to remove surficial contaminants. Rinse the bailer/pump with copious amounts of distilled water. Wear clean gloves when handling a clean bailer/pump.
6. Reassemble the bailer and place on the plastic sheeting. Attached an appropriate length of nylon or polypropylene cord to the bailer using a secure knot. Tie loose end of cord to well casing. Attach the appropriate lengths of nylon or polypropylene cord and polyethylene tubing to the submersible pump. New cord and tubing will be used at each well.
7. If a bailer is being used to evacuate the well, lower the bailer into the well and into the water column gradually, to minimize turbulence. Allow the bailer to sink and become fully submerged. Recover the bailer from the well and empty into the graduated bucket. If the submersible pump is being used to evacuate the well, lower the pump below the water table, secure the safety line, and plug into generator.
8. Bail/pump three times the amount of standing water from the well, or bail/pump well dry and allow to recover. Bailer cord can be held in hand or laid on plastic sheeting while bailing. Following evacuation, pull pump out of well slowly while pump is still operating. This will ensure that any water remaining above the pump has been evacuated from the well.
9. All samples for wells without dedicated pumps will be collected with a PVC bailer. Slowly lower clean bailer into well to minimize turbulence. Fill the 40-ml vials for VOCs analysis insuring that there are no air bubbles. Place vials in cooler with ice.
10. Fill remaining sample containers and place in cooler with ice. Note: do not rinse containers with sample, as some containers contain preservatives.
11. Lock well. Discard cord, tubing, gloves, and sheeting.
12. Fill out remaining data on Water Sampling Log and complete Chain-of-Custody Form. Affix Chain-of-Custody Seal to cooler. Deliver samples to the lab as soon as possible and obtain receiver's signature on Chain-of-Custody Form.

Procedure: (Field Blank and Trip Blank)

1. Label and tape one of the 40-ml vials filled with lab water as "Trip Blank", and store unopened in a cooler on ice. One trip blank will accompany each day's samples.

2. Label and tape one of the empty 40-ml vials as "Field Blank" and store it and the remaining two 40-ml vials filled with lab water, unopened with the other empty sample containers.
3. On the last day of sampling, two Field Blanks will be collected by running the two vials of lab water through (1) the sample/discharge fitting and (2) the bailer used in the sampling round (the fitting and bailer will be decontaminated prior to sample collection following the identical procedure used between sampling different wells). Make sure that there are no trapped air bubbles in the sample vial. Place blank in cooler with ice.
4. Complete Water Sampling Log and Chain-of-Custody Form. Affix Chain-of-Custody Seal to cooler.
5. Deliver samples to laboratory as soon as possible. Obtain signature from receiver at laboratory on Chain-of-Custody Form.

RE:rob
7/10/91
rebeth.doc